

पेटेंट कार्यालय
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

7TH JANUARY, 2022

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**THE PATENT OFFICE
KOLKATA, 07/01/2022**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

<p>1 Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpdtm@nic.in</p>	<p>4 The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in</p> <p>❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</p>
<p>2 The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli</p>	<p>5 The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p> <p>❖ Rest of India</p>
<p>3 The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: delhi-patent@nic.in</p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>	

Website: www.ipindia.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 07/01/2022

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

<p>1 कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in</p>	<p>4 पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप</p>
<p>2 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दावर और नगर हवेली.</p>	<p>5 पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र</p>
<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.



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भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

बौद्धिक सम्पदा भवन/BOUDHIK SAMPADA BHAWAN
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कोलकाता/KOLKATA- 700 091.
दूरभाष/Tel : (91)(33)2367 1943-46
: (91)(33)2367 1987(D).

संख्या/No. : H-45011/1/2022-Admn.

दिनांक/Date: 07-12-2021

CIRCULAR

LIST OF HOLIDAYS FOR THE YEAR - 2022

The following days have been declared as holidays to be observed by the Patent Office Kolkata during the year 2022.

Sl. No.	Holidays & Connected Festivals	Date	Days of Week
1.	Republic Day	January, 26	Wednesday
2.	Holi	March, 18	Friday
3.	Mahavir Jayanti	April, 14	Thursday
4.	Good Friday	April, 15	Friday
5.	Idu'1 Fitr	May, 03	Tuesday
6.	Buddha Purnima	May, 16	Monday
7.	Ratha Yatra	July, 01	Friday
8.	Id-uz-zuha(Bakrid)	July, 10	Sunday
9.	Muharram	August, 09	Tuesday
10.	Independence Day	August, 15	Monday
11.	Mahatma Gandhi's Birth Day	October, 02	Sunday
12.	Dussehra (Maha ashtami)(Additional Day)	October, 03	Monday
13.	Dusshera	October, 05	Wednesday
14.	Milad-un-nabi or Id-E-Milad (Birth Day Prophet Mahammad)	October, 09	Sunday
15.	Diwali (Deepavali)	October, 24	Monday
16.	Guru Nanak's Birthday	November, 08	Tuesday
17.	Christmas Day	December, 25	Sunday

Note: Central Government Organizations, which include industrial, commercial & training establishments (i.e. other than doing work of Secretariat nature) would observe 16 holidays in a year out of which 3 namely Republic Day, Independence Day and Mahatma Gandhi's Birthday will be compulsory. The remaining holidays/occasions may be determined by such Establishments/Organizations themselves on year to year basis.

In deciding whether a particular Deptt/Establishment/Organization an industrial, commercial or trading organizations (i.e. other than those doing work of Secretariat nature) the decision may be taken by the respective Ministry/Ministry of Home Affairs, New Delhi.

The date of Holidays for the Muslim festivals may be changed on sighting of the Moon and decision to be taken by the CGEWCC, Kolkata based on the decision of the State Government in respect of Idu'1 Fitr, Idu'1 Zoha, Muharram and Id-e-Milad..



पौद्धिक सम्पदा भारत
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पौद्धिक सम्पदा भवन/BOUDDHIK SAMPADA BHAWAN
सीपी-२/CP-2, सेक्टर- V/ Sector-V, साल्ट लेक/SALT LAKE
कोलकाता/KOLKATA- 700 091.
दूरभाष/Tel : (91)(33)2367 1943-46
: (91)(33)2367 1987(D),

संख्या/No. : एच-45011/1/2022-प्रशासन

दिनांक/Date: 07-12-2020

वर्ष 2022 में छुट्टियों की सूची

वर्ष 2022 के दौरान पेटेंट कार्यालय, कोलकाता के लिए निम्नलिखित दिनों को छुट्टी घोषित किया गया है।

क्र.सं.	छुट्टियाँ तथा संबंधित त्यौहार	दिनांक	सप्ताह के दिन
1.	गणतंत्र दिवस	जनवरी, 26	बुधवार
2.	होली	मार्च, 18	शुक्रवार
3.	महावीर जयंती	अप्रैल, 14	गुरुवार
4.	गुड फ्राइडे	अप्रैल, 15	शुक्रवार
5.	ईद-उल-फितर	मई, 03	मंगलवार
6.	बुद्ध पुर्णिमा	मई, 16	सोमवार
7.	रथ यात्रा	जुलाई, 01	शुक्रवार
8.	ईद-उल-जुहा (बकरीद)	जुलाई, 10	रविवार
9.	मुहर्रम	अगस्त, 09	मंगलवार
10.	स्वतंत्रता दिवस	अगस्त, 15	सोमवार
11.	महात्मा गाँधी जयंती	अक्तुबर, 02	रविवार
12.	दशहरा (महा अष्टमी) (अतिरिक्त दिन)	अक्तुबर, 03	मंगलवार
13.	दशहरा	अक्तुबर, 05	बुधवार
14.	मिलाद-उन-नवी या ईद-ए-मिलाद (प्रोफेट मोहम्मद जन्मदिवस)	अक्तुबर, 09	रविवार
15.	दिवाली (दिपावली)	अक्तुबर, 24	सोमवार
16.	गुरुनानक जयंती	नवम्बर, 08	मंगलवार
17.	क्रिसमस डे	दिसम्बर, 25	रविवार

टिप्पणी: केन्द्र सरकार के संस्थानों में, जिनमें औद्योगिक, वाणिज्यिक तथा प्रशिक्षण प्रतिष्ठान (यथा सचिवालयी प्रवृत्ति से पृथक कार्य कराने वाले) शामिल हैं, इस वर्ष 16 अवकाश होंगे जिनमें से 3 (तीन) यथा गणतंत्र दिवस, स्वतंत्रता दिवस तथा महात्मा गाँधी जयंती अनिवार्य होंगे। शेष अवकाश/अवसर उन प्रतिष्ठानों/संस्थानों द्वारा प्रत्येक वर्ष स्वयं निर्धारित किए जायेंगे।

कोई विशेष/प्रतिष्ठान/संगठन औद्योगिक, वाणिज्यिक एवं व्यापारिक प्रतिष्ठान (अर्थात् सचिवालयीय प्रवृत्ति के कार्य करने वाले प्रतिष्ठानों के अतिरिक्त) है कि नहीं इसका निर्धारण संबंधित मंत्रालय/गृह मंत्रालय, नई दिल्ली द्वारा किया जाएगा।

मुस्लिम त्यौहारों की छुट्टी के दिन चाँद के दिखने तथा राज्य सरकार द्वारा लिए गए निर्णय के आधार पर बदले जा सकते हैं।

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011017344 A

(19) INDIA

(22) Date of filing of Application :22/09/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : Polyamidoamine (PAMAM) dendrimer/ZnO-PEG nanoparticles (NPs) -grafted reduced graphene oxide based face mask and fabrication process thereof

<p>(51) International classification :C08G0073020000, A61K0047590000, C08G0083000000, H01L0051420000, G06Q0050220000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Nanda Gopal Sahoo Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p> <p>2)Sandeep Pandey 3)Sunil Dhali 4)Manoj Karakoti 5)Chetna Tewari 6)Gaurav Tatrari Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Nanda Gopal Sahoo Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p> <p>2)Sandeep Pandey Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p> <p>3)Sunil Dhali Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p> <p>4)Manoj Karakoti Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p> <p>5)Chetna Tewari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p> <p>6)Gaurav Tatrari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p>
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(57) Abstract :

The present invention relates to polyamidoamine (PAMAM) dendrimer/ZnO-PEG nanoparticles (NPs) -grafted reduced graphene oxide based face mask for the protection of viruses' causes pandemic and process fabrication and designing thereof. Further, in an embodiment of the present invention, cost effective routes for the fabrication of the five layer mask for sensitive medical applications, where polyamidoamine (PAMAM) dendrimer/ZnO-PEG nanoparticles (NPs) -grafted reduced graphene oxide will work as the active layer for the inhibition of the pandemic viruses are disclosed.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011019296 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS OF MANUFACTURING HIGHLY POROUS 3D GRAPHENE NANO-FLAKES (HP3DGNFS) DOPED WITH ALKALI AND TRANSITION METALS

<p>(51) International classification :H01G0009200000, C01B0032184000, H01M0012080000, A61K0008440000, C01B0032186000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Nanda Gopal Sahoo Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 2)Gaurav Tatrari 3)Chetna Tewari 4)Sandeep Pandey 5)Himani Tiwari 6)Manoj Karakoti 7)Anand B. Melkani Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Nanda Gopal Sahoo Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 2)Gaurav Tatrari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 3)Chetna Tewari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 4)Sandeep Pandey Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 5)Himani Tiwari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 6)Manoj Karakoti Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 7)Anand B. Melkani Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p>
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(57) Abstract :

The present invention provides a process for remediation of waste tyre/rubber pollution by mass scale production of highly porous 3D graphene nano flakes by using waste tyre/rubbers as precursor involving an eco-friendly approach. More particularly, the present invention provides a simple two step pyrolysis with catalysts in specific ratio and a heating procedure that directly converts waste tyre into highly porous 3D graphene nano flakes activated by doping with transition metal and alkali metal. The present invention deals with both waste management and energy crisis in dual application one solution manner and successfully creates new opportunities in the sector of waste management. Thus, the present invention includes cheapest waste materials i.e. tyre/rubber waste as the raw material for the process, and effectively upcycle it into HP3DGNF, which facilitates fabrication of ultracapacitor devices.

No. of Pages : 30 No. of Claims : 9

(54) Title of the invention : Polymeric waste derived nanographitic additives for concrete mixture and method of manufacturing thereof

<p>(51) International classification :B82Y0040000000, C04B0028020000, B82Y0030000000, C01B0032190000, C04B0040000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Nanda Gopal Sahoo Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 2)Gaurav Tatrari 3)Sandeep Pandey 4)Chetna Tewari 5)Manoj Karakoti 6)Bhaskar Singh Bohra 7)Sunil Dhali Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Nanda Gopal Sahoo Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 2)Gaurav Tatrari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 3)Sandeep Pandey Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 4)Chetna Tewari Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 5)Manoj Karakoti Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 6)Bhaskar Singh Bohra Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital ----- 7)Sunil Dhali Address of Applicant :Professor Rajendra Singh Nanoscience and Nanotechnology Centre, Department of Chemistry, Kumaun University, Nainital -----</p>
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(57) Abstract :

The present invention generally relates to a process for manufacturing polymeric waste derived nanographitic additives for concrete mixture comprises synthesizing graphene or its derivatives using solid waste materials such as waste plastic or rubbers/tyre or agriculture waste; assimilating graphene and derivatives into cementing mixture to enhance mechanical and tensile properties drastically; treating nano reinforced materials by adding grade 43 ordinary Portland cement with suitable mixing of fine aggregates, natural coarse aggregates in 1:1.89:2.87 ratio for the preparation of concrete blocks; mixing the solution through magnetic stirring with high rotation capability in controlled heating of 40 oC to 60 oC; and adding 0.5 to 3% of superplasticizer by weight of cement to increase the strength and durability of graphene mixed concrete.

No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : PERSONAL WEARABLE TOUCH-FREE SANITIZER DISPENSING SYSTEM

<p>(51) International classification :G06F0003010000, A44C0005000000, A45F0005000000, A61L0009140000, H04M0001270000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR Address of Applicant :G.T. Road, Amritsar Bye-Pass, Jalandhar – 144011, Punjab, India Email ID: registrar@nitj.ac.in Phone: 01812690324 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SAINI DR. INDU Address of Applicant :Assistant Professor Department of Electronics and Communication Engineering Dr. B. R. Ambedkar National Institute Of Technology, Jalandhar. G.T. Road, Amritsar Bye-Pass, Jalandhar – 144011, Punjab, India Email ID: sainii@nitj.ac.in Mobile: 9876950214 -----</p> <p>2)SOOD DR. NEETU Address of Applicant :Assistant Professor Department of Electronics and Communication Engineering Dr. B. R. Ambedkar National Institute Of Technology, Jalandhar. G.T. Road, Amritsar Bye-Pass, Jalandhar – 144011, Punjab, India Email ID: soodn@nitj.ac.in Mobile: 9501311644 -----</p> <p>3)NAUTIYAL ER. SAURABH Address of Applicant :Research Fellow Department of Electronics and Communication Engineering Dr. B. R. Ambedkar National Institute Of Technology, Jalandhar. G.T. Road, Amritsar Bye-Pass, Jalandhar – 144011, Punjab, India Email ID: saurabh.nautiyal454@gmail.com Mobile: 8755007285 -----</p>
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(57) Abstract :

In the present invention, the touch-free, portable sanitizer dispenser has been developed, which is wearable around the wrist. The said device consists of cuboid/cube shaped watch-like device, wearable on wrist with the help of Silicon/Velcro strap (3, Figure 1), refillable Sanitizer tank(7) with inlet (4), sanitized mist output point (1), atomizer/Piezo disc(6) fitted in a frame (10) and connected with an electronic circuit (8, Figure 1, 2)further consisting of Vibration sensor based timer circuit, Mist generator circuit and a rechargeable battery (9, Figure 1, 2),device charging port(5, Figure 1).The device is wearable on the wrist and releases the sanitizer in the form of mist for 20 seconds just by shaking the wrist or clapping the hands. This invention increases the use of sanitizer as it is wearable around the wrist and easy to use. It automatically reduces the chances of getting infected by touching other things or hands.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017053035 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : END CAP ASSEMBLY, BATTERY CELL, BATTERY MODULE, AND APPARATUS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H01M0002020000, H01M0002300000, H01M0002120000, H01M0002340000, H01M0002200000</p> <p>:202010306786.5</p> <p>:17/04/2020</p> <p>:-----</p> <p>:PCT/CN2020/110837 :24/08/2020</p> <p>:WO 2021/208317</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant : 1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED Address of Applicant :No.2 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)WU, Ningsheng Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>2)XING, Chengyou Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>3)CHEN, Yuanbao Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>4)WANG, Peng Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>5)LI, Quankun Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p>
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(57) Abstract :

Disclosed are an end cap assembly (100), a battery cell (10), a battery module (11), and an apparatus. The end cap assembly (100) is used for the battery cell (10), and the end cap assembly (100) comprises: an end cap (110); an electrode terminal (130), which is arranged on the end cap (110); and an insulating part, which is used for insulating the electrode terminal (130) from the end cap (110) and is arranged on the electrode terminal (130) in a sleeving manner. The insulating part abuts against the electrode terminal (130), at least one of the insulating part and the electrode terminal (130) is provided with a stress relief groove (140), and the stress relief groove (140) is configured to absorb stress generated when the electrode terminal (130) abuts against the insulating part.

No. of Pages : 19 No. of Claims : 12

(54) Title of the invention : ALMIGHTY TOUCHLESS HOLY BELL

<p>(51) International classification :A47G0033000000, G10K0001340000, E06B0007300000, H04M0019040000, A47G0033020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mayank Patel Address of Applicant :C-152 Pratap Nagar -----</p> <p>2)Saurabh Srivastava</p> <p>3)Harshita Jain</p> <p>4)Milind D Jain</p> <p>5)Latif Khan</p> <p>6)Aditya Gupta</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mayank Patel Address of Applicant :C-152 Pratap Nagar -----</p> <p>2)Saurabh Srivastava Address of Applicant :204-A Block Shubh Labh Apartment New Keshav Nagar, Udaipur -----</p> <p>3)Harshita Jain Address of Applicant :44, Ashok Nagar, Road No. 8, Near Nav Bharat Sr. Sec. School, Udaipur -----</p> <p>4)Milind D Jain Address of Applicant :S 3/49 sector14 Goverdhan Vilas, Udaipur -----</p> <p>5)Latif Khan Address of Applicant :H.No.2 Garib Nawaz Colony, Dabok Chouraya -----</p> <p>6)Aditya Gupta Address of Applicant :B-207, Shubh Labh Apartment, New keshav Nagar, Udaipur -----</p>
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(57) Abstract :

Almighty Touchless Holy Bell is an automated bell proposed on Internet of Things with some applications of machine learning and image processing. The bell is the ordinary material bell which is generally easily found over the temple, church etc. The bell structure will be of stainless steel material and even can be modified in different materials. The bell is absolutely adjustable in nature and can be easily fitted and detached from the place where it will belongs. The bell will function automatically whenever the person's hand comes in contact with the sensor (2) placed on bell supporting structure (1) and start ringing. This is really helpful during covid-19 time. The audio device will play devotional sound or prayer (3). The dispenser will spray the holy water and devotional fragrance (4). The spy cam (5) is used for monitoring the crime scene in horizontal view of the idol with its sliding pusher puller (6). The bell is operating on solar energy hence no electricity is consumed (7).

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055795 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : STATSNOPHILIA: A STATISTICAL TOOL IMPLEMENTED IN C LANGUAGE

<p>(51) International classification :G06Q0040060000, G06F0016958000, G09B0019180000, F16L0011220000, H04W0040020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Hitesh Kumar Sharma Address of Applicant :School of Computer Scinece, University of Petroleum and Energy Studies -----</p> <p>2)Mr. Anant Dhiman</p> <p>3)Ms. Diksha Haryal</p> <p>4)Ms. Anisha Sikka</p> <p>5)Ms. Surekha</p> <p>6)Mr. Prashant Ahlawat</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Hitesh Kumar Sharma Address of Applicant :School of Computer Scinece, University of Petroleum and Energy Studies -----</p> <p>2)Mr. Anant Dhiman Address of Applicant :University of Petroleum & Energy Studies, Bidholi Campus, Via-Prem Nagar, Dehradun -----</p> <p>3)Ms. Diksha Haryal Address of Applicant :University of Petroleum & Energy Studies, Bidholi Campus, Via-Prem Nagar, Dehradun -----</p> <p>4)Ms. Anisha Sikka Address of Applicant :University of Petroleum & Energy Studies, Bidholi Campus, Via-Prem Nagar, Dehradun -----</p> <p>5)Ms. Surekha Address of Applicant :ABES College Ghaziabad -----</p> <p>---</p> <p>6)Mr. Prashant Ahlawat Address of Applicant :GL Bajaj Cllege Greater Noida -----</p> <p>-----</p>
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(57) Abstract :

Data driven decisions are the trend and the need of the hour today as the power of analytics can no longer be underestimated. As C is a familiar language whereas statistical tools such as Rstudio, Python have inbuilt functions for calculating mean,zscore,t-test,hypothesis testing etc which consists of several such terms that gives particular results for example hypothesis testing is also subdivided to different categories, for small sample, ttest is applied which has its values different for several scenarios(either one tail or two tail)whereas for large sample we will have z test which will have zvalues illustration (could be either negative or positive).This project will let us have an ease access to certain scenarios. Therefore, this idea popped up to the heads of playing with data in an environment other than the one it's familiar to work upon i.e. implementation of statistical concepts in C language to make Analytics not only constrained to R,python but making an independent environment for the easiness of analysis without even having particular functions but only with the help of user defined libraries that can be implemented through elementary C to analyse data. Statistical programs need to evolve , adapt and innovate in order to keep pace with the changing interest of the clients they serve or requests of new clients . The purpose of the activity or it's statement of objectives needs to be reviewed periodically to improve the relevance of the statistical product to client needs.Thus in languages which doesnot have inbuilts to all this could have libraries to specific concepts which consists of each token which may contribute to user's need.All the values must be embedded /included in system,and called upon when seeked for.

No. of Pages : 18 No. of Claims : 3

(54) Title of the invention : A PROCESS FOR ORGANOTRIALKOXSILANE FUNCTIONALIZED PALLADIUM-COBALT NANOPARTICLES AS POTENT CATALYSTS FOR OXYGEN EVOLUTION REACTION

(51) International classification :B01J0035000000, C25B0011040000, C25B0001040000, B82Y0030000000, B01J0035020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Dept of Chem, IIT BHU -----

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(57) Abstract :

Although noble metal nanoparticles (NPs) have been widely used in heterogeneous catalysis, they are still limited in catalytic efficiency on a per-noble-metal-atom basis. Here we developed Co-NTA nanowires as a precursor suitable for non-noble metal @noble metal core-shell nanocatalysts. As a model system, Co@Pd core-shell NPs through the participation of organotrialkoxysilane embedded in the N-doped carbon matrix (Co@Pdncps) were synthesized and characterized by TEM, XRD, SEM, EDX and XPS. The fabrication of 2-(3,4epoxycyclohexyl)ethyltrimethoxysilane (EETMOS)-based Cobalt (Co)-palladium (Pd) bimetallic catalysts with several compositions (Pd—0.001M and Co—0.001–0.1M) was attempted; these materials were investigated for use as low-cost catalysts in the Oxygen evolution reaction(OER). EETMOS-assisted conversion of Pd²⁺ to Pd⁰ was demonstrated with an average dimension of 8 ± 2 nm serving as seeds in synthesizing Co–Pd bimetallic nanoparticles with low palladium content (0.1%). The effect of Co@Pdncps catalysts on the OER in an alkaline environment was studied using linear sweep voltammetry and electrochemical impedance spectroscopy. A nanostructured thin film on carbon cloth containing Co@Pdncps produced a very high current density at a low overpotential with a small Tafel slope of 39 mV dec⁻¹ at a catalyst loading of 2 mg cm⁻² on the carbon cloth.

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060446 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ECO-FRIENDLY BRAKE FRICTION COMPOSITE USING WASTE MATERIALS AND BRAKE PAD MANUFACTURED THEREOF

<p>(51) International classification :C08L0009020000, A23K0010260000, B28B0003020000, C04B0028000000, C04B0026020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Vishal Address of Applicant :Assistant Professor University Institute of Engineering and Technology Kurukshetra University ----- ----- 2)Dr. Sanjay Kajal 3)Dr. Sunil Nain 4)Dr. Parinam Anuradha 5)Dr. Upender Dhull Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Vishal Address of Applicant :Assistant Professor University Institute of Engineering and Technology Kurukshetra University ----- ----- 2)Dr. Sanjay Kajal Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University Institute of Engineering & Technology, Kurukshetra University ----- 3)Dr. Sunil Nain Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University Institute of Engineering & Technology, Kurukshetra University ----- 4)Dr. Parinam Anuradha Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University Institute of Engineering & Technology, Kurukshetra University ----- 5)Dr. Upender Dhull Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University Institute of Engineering & Technology, Kurukshetra University -----</p>
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(57) Abstract :

The brake friction composite prepared with fly ash-an industrial waste, white ark shell powder- a sea waste, reinforcing fiber, binder and the friction modifiers comprises composition of Phenol formaldehyde 18-20% by wt.; a glass fiber forming 3-5% by wt.; a Al₂O₃ 5-8% by wt.. Fly ash 25-30 % by wt.; a CNSL powder 8-10 % by wt., Graphite 3-5 % by wt., Nitrile Butadiene Rubber (NBR) 3-5 % by wt., White ark shell powder 6-11 % by wt., Barium Sulphate 15-20 % by wt. The composition is expected to satisfy most of the performance criteria. Besides, it can also offer less release of wear dust during braking, negligible heat transfer at the backing plate to avoid the risk of backing plate detachment, and less noise and vibrations. The use of more than 40 wt. % of waste materials can increase the waste material utilization as well as reduce the overall cost of development of the product.

No. of Pages : 13 No. of Claims : 15

(54) Title of the invention : SYSTEM AND METHOD FOR AN INTERNET OF THINGS (IOT) BASED GARBAGE MONITORING SYSTEM

<p>(51) International classification :H04L0029080000, H04W0004700000, H04L0029060000, G08B0021180000, G06Q0050100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SHARDA UNIVERSITY Address of Applicant :PLOT NO. 32, 34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)ADHYANSH JAISWAL Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p> <p>2)BIBHASH KUMAR Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p> <p>3)CHANDAN KUMAR Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p> <p>4)VIKASH KUMAR SINGH Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p> <p>5)SHAILENDRA TRIPATHI Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p> <p>6)MAYANK KUMAR GOYAL Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 -----</p>
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(57) Abstract :
 The present disclosure relates to a system and method in the field of environment. More specifically, the invention is directed to a system and method for an Internet of Things (IoT) based garbage monitoring system. The proposed method can comprise: measuring distance between an ultrasonic sensor and the garbage; assessing level of garbage filled in the dustbin by comparing, the distance between the ultrasonic sensor and the garbage with the pre-stored threshold value, wherein the dustbin is determined as filled if determined value is less than the threshold value; and transmitting a notification, over a communication network, to one or more computing devices.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060772 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD TO DETECT SUSPICIOUS ACTIVITY

<p>(51) International classification :H04L0029060000, H04N0005247000, G01R0031367000, G08B0013196000, H04M0011040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SHARDA UNIVERSITY Address of Applicant :PLOT NO. 32, 34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUMARI SABYA Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 ----- -----</p> <p>2)NIKITA KUMARI Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 ----- -----</p> <p>3)SHAILENDRA TRIPATHI Address of Applicant :DEPARTMENT OF ELECTRICAL ELECTRONICS & COMM. ENGINEERING, SHARDA UNIVERSITY, PLOT NO. 32-34, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 ----- -----</p>
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(57) Abstract :
The present disclosure relates to a system and method in the field of safety. More specifically, the invention is directed to a system and method to detect suspicious activity. The proposed method can comprise: utilizing one or more image sensors to capture multimedia data of at least one object; comparing the captured multimedia data with the pre-stored multimedia information to determine dubious condition; and transmitting the dubious condition data through a communication network, to the one or more computing devices.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : METHOD AND SYSTEM TO PREPARE PRICE MATRIX FOR PREDICTING A PRICE RANGE OF AN ARTICLE BY USING DATA SCIENCE

<p>(51) International classification :G06Q0030080000, G06Q0030020000, G06Q0010060000, G01C0021340000, H04M0015000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)RAVINDER AHUJA Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 2)TARUN KUMAR 3)LALIT KUMAR 4)AANCHAL VIJ 5)GARIMA PANDEY 6)SWASTI SINGHAL 7)SURENDRA KUMAR 8)ANUPAM LAKHANPAL 9)SHREE HARSH 10)MANPREET SINGH Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)RAVINDER AHUJA Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 2)TARUN KUMAR Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 3)LALIT KUMAR Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 4)AANCHAL VIJ Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 5)GARIMA PANDEY Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 6)SWASTI SINGHAL Address of Applicant :GALGOTIA COLLEGE OF ENGINEERING, KNOWLEDGE PARK I, GREATER NOIDA, UTTAR PRADESH 201310 ----- 7)SURENDRA KUMAR Address of Applicant :JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY - A 10, A BLOCK, BLOCK A, INDUSTRIAL AREA, SECTOR 62, NOIDA, UTTAR PRADESH 201309 ----- 8)ANUPAM LAKHANPAL Address of Applicant :GALGOTIAS UNNIVERSITY - PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 ----- 9)SHREE HARSH Address of Applicant :SHARDA UNIVERSITY - PLOT NO 32, 43, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201310 ----- 10)MANPREET SINGH Address of Applicant :JIMS ENGINEERING MANAGEMENT TECHNICAL CAMPUS-48/4, KNOWLEDGE PARK III, NOIDA UTTAR PRADESH 201303 -----</p>
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(57) Abstract :
A control unit receives a request, via a computing device, to compute/predict prices or price ranges of an article by using data science. A control unit can cater a function of a price predictor engine to predict article's price at different geographical locations and time slots, and computes a price matrix, through data science algorithms. The price predictor engine determines predicted price range from the price matrix, taking into account the spatial (e.g., geographic auction locations) and temporal factors (e.g., time-of-day, time-of-week, time-of-month, season-of-year), and various optimization conditions. The prediction engine performs multiple assessments to build price matrix. Such assessments include: (i) at specific time slot, what price is offered at different locations; (ii) at specific location, what price is offered at different time slots, and (iii) change location and time slot both, simultaneously.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060822 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : STRUVITE-RICE STRAW BIOCHAR ALGINATE COMPOSITE BEADS AS SLOW-RELEASE NITROGEN-PHOSPHORUS FERTILIZER

(51) International classification :C05B0007000000, C05G0003000000, C02F0001520000, C01B0025450000, C02F0101100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Department of Civil Engineering, IIT-Kanpur, Kanpur- 208016, Uttar Pradesh, India -----

(57) Abstract :

The current invention discloses the method and compositions to prepare struvite embedded rice straw biochar alginate beads and its application as a slow-release nitrogen-phosphorus fertilizer.

No. of Pages : 22 No. of Claims : 12

(54) Title of the invention : A SMART ATTENDANCE SYSTEM AND METHOD FOR PERMISSION INVENTORY DURING THE CLASS

<p>(51) International classification :G07C0001100000, G07C0009000000, G06Q0050200000, A47C0011000000, G05B0015020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Shivani Chaudhry Address of Applicant :Assistant Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 2)Dr. Deepti Sinha 3)Dr. Sachin Sinha 4)Dr. Tapas Das 5)Dr. Seshanwita Das 6)Prof. Deeksha Gupta Ganguly 7)Dr. Amritkant Mishra 8)Dr. Akhilesh Tiwari Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Shivani Chaudhry Address of Applicant :Assistant Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 2)Dr. Deepti Sinha Address of Applicant :Assistant Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad-201003 ----- 3)Dr. Sachin Sinha Address of Applicant :Associate Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 4)Dr. Tapas Das Address of Applicant :Associate Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 5)Dr. Seshanwita Das Address of Applicant :Associate Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 6)Prof. Deeksha Gupta Ganguly Address of Applicant :Assistant Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 7)Dr. Amritkant Mishra Address of Applicant :Assistant Professor, CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad ----- 8)Dr. Akhilesh Tiwari Address of Applicant :CHRIST (Deemed to be University), Mariyam Nagar, Meerut Road Ghaziabad -----</p>
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(57) Abstract :

A smart attendance system (1). The system (1) comprises a smart lecture stand (2), which having an electronic unit (2A) which is connected to the other smart door, smart bench, and smart chair of the system; a smart bench (3), which having an electronic unit (3A), which is connected to the other smart door, smart stand, and smart chair of the system; a smart chair (4) comprises which having an electronic unit (4A); which is connected to the other smart door, smart bench, and smart stand of the system; a smart door (5) comprises a electronic unit (5A), which is connected to the other smart door, smart bench, and smart chair of the system. The invention provides a quick and digital solution of the attendance preparation and permission inventory during the class. The method for permission inventory during the class comprises plurality of steps.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060987 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SANITARY NAPKIN SOLAR INCINERATOR

(51) International classification :F23G0007060000, B01D0053340000, F23G0005500000, F24H0009200000, B64D0033020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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7)Ms. Ritu Tomar

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(57) Abstract :

The present invention provides a sanitary napkin solar incinerator (100). The incinerator (100) is eco-friendly. The incinerator (100) is incorporated with the filter for filtering a hazardous gas. The incinerator (100) includes a housing, a photovoltaic array, a heating chamber, a heat dissipation unit, an inlet means, an exhaust chamber, a temperature sensor, a one or more operating knobs and a controller.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061078 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NON-CONTACT CONDITION MONITORING (NCM) LOW ALTITUDE FLYING DRONE FOR INSPECTING UNDRGROUND PIPELINES CONDITION

(51) International classification :B64C0039020000, G05D0001020000, G01S0013880000, F17D0005000000, G01H0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a non-contact condition monitoring (NCM) low altitude flying UAV (102) for inspecting condition of metallic pipelines buried underground. The UAV includes a first non-contact sensor (106) that detects at least one metallic pipeline (104) buried underground, and a second non-contact sensor (108) that detects a magnetic field leakage from at least one metallic pipeline selected from the metallic pipelines buried underground. The first non-contact sensor and the second non-contact sensor are communicably coupled to engine of the UAV to align said UAV for navigating the UAV over the at least one detected metallic pipeline. The UAV also include a processor (112) that detects parameters associated with the detected pipeline based at least on the detected magnetic field leakage to inspect condition of the at least one detected metallic pipeline buried underground based on the one or more detected parameters.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061079 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NON-CONTACT CONDITION MONITORING (NCM) AUTONOMOUS GROUND VEHICLE (AGV) FOR INSPECTING UNDRGROUND PIPELINES CONDITION

(51) International classification :G05D0001020000, G01H0009000000, F17D0005020000, G01N0027820000, G01V0015000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a non-contact condition monitoring (NCM) autonomous ground vehicle (AGV) (102) for inspecting condition of metallic pipelines buried underground. The AGV includes a first non-contact sensor (106) that detects at least one metallic pipeline (104) buried underground, and a second non-contact sensor (108) that detects a magnetic field leakage from at least one metallic pipeline selected from the metallic pipelines buried underground. The first non-contact sensor and the second non-contact sensor are communicably coupled to one or more wheels (110) of the AGV to align said one or more wheels for navigating the AGV over the at least one detected metallic pipeline. The AGV also include a processor (112) that detects parameters associated with the detected pipeline based at least on the detected magnetic field leakage to inspect condition of the at least one detected metallic pipeline buried underground based on the one or more detected parameters.

No. of Pages : 38 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061080 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NON-CONTACT CONDITION MONITORING AUTONOMOUS GROUND VEHICLE FOR INSPECTING CONDUCTIVE PROTECTIVE LAYER WITH DEFECT MAPPING

(51) International classification :G05D0001020000, G01H0009000000, B65G0043020000, B66F0009060000, G01N0027820000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a non-contact condition monitoring (NCM) autonomous ground vehicle (AGV) (102) for inspecting condition of a conductive protective (CP) layer (104A) associated with one or more metallic pipelines buried underground. The AGV includes a first non-contact sensor (106) to detect metallic pipeline (104) buried underground, and detect magnetic field generated by the CP layer (104A) due to passage of current therethrough. The magnetic field indicates current leakage emitted from the CP layer (104A). The first non-contact sensor (106) is communicably coupled to one or more wheels (110) of the AGV to align said one or more wheels for navigating the AGV (102) over the at least one detected metallic pipeline (104). The NCM AGV (102) also includes a processor (112) coupled to the first non-contact sensor (106) for analyzing the captured data.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : INTERNET OF THINGS AND LONG-RANGE PROTOCOL EMPOWERED SYSTEM FOR REAL-TIME MONITORING OF UNIVERSITY CAMPUS HOSTEL

(51) International classification :H04L0029080000, G07C0009000000, G06Q0050200000, G07C0009270000, E04B0001348000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 An Internet of Things and Long-Range Protocol Empowered System for Real-Time Monitoring of University Campus Hostel comprises Long Range and WiFi enabled gateway (40), University Campus Hostel Authority Unit (50), Monitoring Hostel Room Unit (101), Hostel Room Appliance Unit (201), and Hostel Entrance Unit (301). The three-primary unit of this architecture are monitoring hostel room unit (101), hostel room appliance unit (201), and hostel entrance unit (301); and Hostel room unit (101), and hostel room appliance unit (201) are the two units that present outside and inside of the room.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061106 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS FOR SYNTHESIS OF BIO-DEGRADABLE-CARBONOID-METABOLITE NANOPARTICLES (BIODCM-NPS)

<p>(51) International classification :A01N0063300000, C12R0001885000, C05F0011080000, B82Y0005000000, B82Y0030000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SANTOSH K. MISRA Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>2)C. KANNAN Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>3)R. BALAMURUGAN Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>4)PIYUSH KUMAR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>5)DIVYA MISHRA Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>6)MOU MANDAL Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p>
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(57) Abstract :

A process for synthesis of bio-degradable-carbonoid-metabolite nanoparticles (BioDCM-NPs) is provided. The process includes synthesizing biodegradable nanoparticles including secondary metabolite derived from a fungus *Trichoderma asperellum*. The BioDCM-NPs are configured to exhibit antimicrobial activity for bio-protection of crops especially in rice crops. The process provides high temperature stability to the secondary metabolite without hampering its antimicrobial activity. The BioDCM-NPs are active at low concentration. The BioDCM-NPs have similar advantages like chemical pesticides but safe and biodegradable (unlike chemicals). The BioDCM-NPs provides multiple benefits as biofertilizers and phyto-stimulants.

No. of Pages : 31 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061117 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD TO DETECT TRANSFORMATION ZONE FOR QUANTITATIVE EVALUATION OF CERVICAL HEALTH

(51) International classification :A61B0005000000, G06T0005000000, A61B0003000000, G06T0003000000, G06T0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a system (100) to detect transformation zone for quantitative evaluation of cervical health, the system includes an imaging device (102) that captures input images of a cervix region of a subject. A processor (104) operatively coupled to the imaging device, the processor configured to receive the input images, process the received input images of the cervix region of the subject, analyze pixel intensity of the received input images to identify a set of attributes of the transformation zone, generate contour image of the transformation zone based on vertices obtained from the identified set of attributes of the transformation zone, estimate quantitative parameters corresponding to the identified transformation zone and generate a diagnosis report based on the estimated quantitative parameters and schematics to enable clinical management of the cervix health.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : SMART WEARABLE DEVICE TO MONITOR THE FETAL HEALTH DURING 3RD TRIMESTER FOR PREGNANT WOMEN

<p>(51) International classification :A61B0005000000, A61B0005024000, A61B0008080000, A61B0005020500, A61B0008000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Vetrithangam Duraisamy Address of Applicant :Associate Professor, Department of Computer Science & Engineering Chandigarh University Punjab. -----</p> <p>2)Dr. Syed Umar 3)Dr. Shruti Aggarwal 4)Mrs. R. Himabindu 5)Dr. B. Arunadevi 6)Dr. Hussain Syed 7)Ms. M. Manasa 8)Dr.A.Poobalan 9)Mrs.Prabhjot Kaur 10)Mr. P Naresh Kumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Vetrithangam Duraisamy Address of Applicant :Associate Professor, Department of Computer Science & Engineering Chandigarh University Punjab. -----</p> <p>2)Dr. Syed Umar Address of Applicant :Professor, Department of Computer Science &Engineering, Wollega University, Oromiya, Nekemte, Ethiopia. -----</p> <p>3)Dr. Shruti Aggarwal Address of Applicant :Associate Professor, Department of Computer Science & Engineering Chandigarh University, Punjab-140 413 India. -----</p> <p>4)Mrs. R. Himabindu Address of Applicant :Assistant Professor, Department of CSE(Cyber Security) Mallareddy University, Medchal district, Telangana,500 043 India. -----</p> <p>----</p> <p>5)Dr. B. Arunadevi Address of Applicant :Professor, Department of Electronics and Communication Engineering Dr.N.G.P Institute of Technology, Dr.N.G.P Nagar- Kalapatti Road, Coimbatore- 641 048 Tamilnadu, India. -----</p> <p>6)Dr. Hussain Syed Address of Applicant :Associate Professor, School of Computer Science and Engineering, VIT AP University, Andra Pradesh, India, -----</p> <p>7)Ms. M. Manasa Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KG Reddy College of Engineering and Technology, Chilkur, Moinabad-501504, Rangareddy -DT, Telangana, India. -----</p> <p>8)Dr.A.Poobalan Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, University College of Engineering, Dindigul-624 709 Tamil Nadu, India. -----</p> <p>9)Mrs.Prabhjot Kaur Address of Applicant :Assistant Professor, Department of Computer Science & Engineering Chandigarh University, Punjab-140 413 India. -----</p> <p>10)Mr. P Naresh Kumar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KG Reddy College of Engineering and Technology, Chilkur, Moinabad-501 504, Rangareddy DT, Telangana, India. -----</p>
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(57) Abstract :

Fetal monitoring during pregnancy is extremely important to prevent and diagnose life threatening conditions for the fetus and the mother. In the process of fetal growth and development various abnormal conditions may occur from time to time, which can lead to inborn diseases at birth. Thus, pregnant women must undergo routine checkups; maternal mortality rate is avoided to a very large extent by routine check-up; to check whether the fetus is normal the basic information to be known is fetal heart rate, temperature and fetal movement. This patent Aim is to design a wearable IOT based device with a belt for monitoring the fetal health and mother health. The wearable IOT sensors such as Optical heart rate sensor, Accelerometer, an EMG sensor, Pulse sensor, Sweat sensor ,Fetal Heart rate sensor (FHR) and Temperature sensors are used for Data acquisition which means collecting the data about the health status of both mother and fetal. All the sensors and buzzer are connected to the LPC2148 ARM Micro controller which preprogrammed with normal range values. Once the user wear the device,sensors measure the data and display the live data before processing. If any sensor measures the abnormal value (High Risk) then immediate alert will be sent to the User, Hospital, Home and Emergency vehicle by SMS/Autodial.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF AN ANTI-ALZHEIMER DRUG: RIVASTIGMINE TARTRATE

(51) International classification :G01N0030060000, G01N0030020000, G01N0030860000, G01N0030740000, A61K0031270000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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9)DR. BISWA MOHAN SAHOO

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(57) Abstract :

The present paper describes a validated RP-HPLC Infinity LC equipped with UV detector method to quantify RT in various lipid particulate delivery systems. Chromatographic conditions followed for achieving separation in the study included Chromosil C-18 column (250×4.6mm, 5µm in particle size) at a suitable temperature. The mobile phase was composed of (Methanol:0.1M ammonium acetate buffer) for achieving a high resolution peak of Rivastigmine Tartrate with 1 ml/min flow rate. The critical parameters were monitored at 219 nm and detected using infinity LC-equipped with UV detector and the data was analysed using anachrome software. The retention time was found to be 3.146 min. Also, the proposed method was validated as per ICH Q2(R1) guidelines and was found to be accurate, fast, reproducible and prudent for the quantification of Rivastigmine Tartrate in various dosage forms. The method was found to be linear in the selected range of 5-25 µg/ml with R2 value of 0.9975, accurate with 99.4±1.12%. The % RSD of less than 2% for inter day -intra day precision justifies the closeness of the theoretical and experimental values while its LOD and LOQ values were found to be 0.26µg/mL and 0.78µg/mL respectively.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061161 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NANOTHYLAKOIDS FOR SELECTIVE REMOVAL OF ANTIBIOTIC- AND METAL- RESISTANT BACTERIA FROM POLLUTED WATER

(51) International classification :C02F0001280000, C02F0003340000, B01J0020280000, G16B0030000000, A61K0008978900

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The Invention provides nanothylakoids for selective removal of antibiotic- and metal- resistant bacteria from polluted water comprising uniform cubical nano-adsorbent (NA) functionalized with two different hybrid peptide and nucleic acid sequences.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061220 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN INTELLIGENT MODEL TO IDENTIFY SENTIMENTS USING ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM

(51) International classification :A61B0005024000, A61B0005080000, G06F0040284000, G06T0001200000, G06N0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present disclosure discloses a system (100) for analyzing sentiments. The system (100) includes a computing device (102). The computing device (102) includes a microcontroller (104). The microcontroller (104) includes a non-transitory storage unit (104A) comprising a historical data, sentimental parameters, and pre-defined plurality of lexicon rules for classification of the parameters; one or more of processors (104B) coupled with the storage unit (104A), operable to execute one or more subunits. The subunits are configured to identify and analyse sentiments based upon the keywords and images.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : AUTOMATED WINDSHIELD WASHER FLUID RESERVOIR SYSTEM PEOPLE

(51) International classification :B60S0001500000, B60S0001480000, G06N0003080000, A01G0025160000, A61M0005145000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present disclosure discloses an automated windshield washer fluid reservoir system (100). The system (100) includes a fluid reservoir (102) disposed under a bonnet of a vehicle. The fluid reservoir (102) includes a sensing unit (102A) comprising a plurality of sensors to determine water level in the fluid reservoir (102); a microcontroller (104) comprising a non-transitory storage unit (104A) including a frequency of notifications per day basis for zero and about-to-zero water levels, and threshold frequency of the notifications per day basis for zero and about-to-zero water levels in the fluid reservoir (102); and one or more of processors (104B) coupled with the storage unit (104A), operable to execute one or more subunits.

No. of Pages : 26 No. of Claims : 5

(54) Title of the invention : PETAL4HELP: A HASSLE-FREE SMART DEVICE FOR OLD AGE PEOPLE

(51) International classification :G06F0003010000, H01M0010613000, A61B0005020500, A61B0005000000, A61B0005047800

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present disclosure discloses a wearable assistance device (100) for old age people. The device (100) includes a plurality of elements (102) connected to each other. Each of the elements (102) further includes a user interface (104) corresponding to perform a specific task out of a plurality of tasks. The elements (102), include a sensing unit (106) comprising a plurality of sensors; a microcontroller (108) comprising a non-transitory storage unit (108A) coupled with one or more of processors (108B), operable to execute one or more subunits. The subunits are configured to perform the tasks as per input of the user.

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061242 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : L&M: A SMART FRAMEWORK FOR MANAGING LOST AND MISSING PEOPLE

(51) International classification :G06F0011140000, H04L0012460000, G06F0016230000, G06F0013400000, H04W0004330000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In an aspect, the present disclosure discloses a plurality of computing devices (102), for managing data of lost and missing people. The computing devices (102) include a non-transitory storage unit (104) comprising one or more of processors coupled with one or more modules. The modules are further configured to manage, upgrade data of the lost and missing people.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061269 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DENIAL OF SERVICE (DOS) ATTACK DETECTION SYSTEM FOR NEXT GENERATION AUTONOMOUS CONNECTED VEHICLES

(51) International classification :H04L0029060000, G06K0009620000, G05B0023020000, G01R0029080000, G08B0025080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention discloses a system 100 for detecting Denial-of-Service (DoS) attack in a communication network of next generation autonomous connected vehicles, said system 100 comprising: a communication network 101, a plurality of sensors installed in each of the plurality of nodes 102, a Support Vector Machine (SVM) 103, a cloud server 104, a memory 105 communicatively coupled to the processor 106. The method of detecting DoS attack in a communication network 101 is also disclosed.

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061305 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR FILTERING NETWORK TRAFFIC

(51) International classification :H04L0029120000, H04L0029060000, H04L0012260000, H04W0048000000, G10L0015220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (100) for filtering network traffic comprising: a processor (114) located on an application server (102) and a storage medium (116). The storage medium (116) comprises: a request receiving module (118) configured to receive a web-related request on a user device (104) from a client device (108), wherein the web-related request is received with client network information; a request analyzing module (120) configured to analyze the client network information associated with the web-related request for fetching an Internet Protocol (IP) address by using a Domain Name System (DNS) server (110); a request processing module (122) compares the fetched IP address with pre-stored IP addresses from a user-defined list; blocks the web-related request when the fetched IP address matches with any of the pre-stored IP addresses from the user-defined list; and receives a voice command from a user for blocking and/or unblocking the web-related request.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061306 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR CALCULATING AREA

<p>(51) International classification :G05D0001020000, A01D0034000000, B25J0009160000, B66F0009060000, G06T0007620000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Noida Institute of Engineering &Technology, Greater Noida Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 Email - evp@niet.co.in Mobile No. – 9958698090 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Anjana Rani Gupta Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 ----- 2)Mr. Ashutosh Kumar Singh Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 ----- 3)Ms. Nisha Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----</p>
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(57) Abstract :

A system (100) for calculating an area, comprising: a robotic device (102) comprises: a body (112) moves in a premise to calculate the area; a distributed sensor unit (116) comprises to detect a boundary of the premise; a motor (118) to enable the body (112) to move along the detected boundary; rotary encoders (120a-120m) to measure dimensions of the premise based on the detected boundary; a control unit (122) and a storage medium (124). The control unit (122) detects an obstacle in a path of the body (112) maneuvering across the premise; develops a virtual grid onto the premise and actuate the motor (118) to position and align the body (112); actuate the rotary encoders (120a-120m) to measure the dimensions of the premise and the area; and a user interface (110) receives the calculated area from the control unit (122).

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061307 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING CROP DISEASE

(51) International classification :G06N0003040000, G06K0009620000, G06K0009000000, G16H0050200000, G06K0009460000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A system (100) for detecting crop disease, the system (100) comprising: a processor (104) located on an application server (102); a storage medium (106) configured to store programming instructions executable by the processor (104), wherein the storage medium (106) comprises: a data receiving module (114) configured to receive crop-related data from a user device (110); a data analyzing module (116) configured to analyze the crop-related data and classify the crop-related data using a set of pre-defined classifiers such that a state of the crop is detected, wherein the state of the crop is selected from a healthy state, and a diseased state; and a disease detection module (118) configured to match features of the classified crop-related data with a pre-trained data set on detecting the diseased state, such that a disease of the crop is recognized using a Convolutional Neural Network (CNN).

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : IMAGE PROCESSING BASED METHODOLOGY FOR IMAGE SEGMENTATION OF BRAIN TUMORS USING ARTIFICIAL INTELLIGENCE AND DEEP LEARNING

<p>(51) International classification :G16H0050200000, C07K0016280000, G06T0007110000, G01N0033574000, A61K0039000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Pavika Sharma Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, BPIT GGSIPU Delhi -----</p> <p>2)Dr. Kisalaya Chakrabarti</p> <p>3)Dr. Shailesh Khapre</p> <p>4)Dr. S. Anantha Siva Prakasam</p> <p>5)Dr. Sachin Tyagi</p> <p>6)Er. Gurpreet Singh</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Pavika Sharma Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, BPIT GGSIPU Delhi -----</p> <p>2)Dr. Kisalaya Chakrabarti Address of Applicant :Professor, Dept. of Electronics and Communication Engineering Haldia Institute of Technology Haldia Purba Medinipur-721657(W.B),India -----</p> <p>3)Dr. Shailesh Khapre Address of Applicant :Assistant Professor, Department of Data Science and Artificial Intelligence, IIIT-Naya Raipur, Raipur, Chhattisgarh, India -----</p> <p>4)Dr. S. Anantha Siva Prakasam Address of Applicant :Professor, Department of Computer Science and Engg., Rajalakshmi Engg. College, Tandalam, Chennai -----</p> <p>5)Dr. Sachin Tyagi Address of Applicant :Professor & Director, Bharat Institute of Technology, School of Pharmacy Meerut, 250103 -----</p> <p>----</p> <p>6)Er. Gurpreet Singh Address of Applicant :Assistant Professor, Department Of Computer Science & Application , Sant Baba Bhag Singh University, Jalandhar, Punjab, India -----</p>
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(57) Abstract :

According to the World Health Organization (WHO), cancer is the second leading cause of death globally. Early detection of cancer can prevent death, but this is not always possible. The brain tumor is an anomalous expansion of cells in the brain. Some of the primary brain tumors are meningiomas, gliomas, and pituitary tumors. Precise demarcation amid these tumors is a very significant action. All the clinical diagnostic process and anon efficient assessment of patients depends on the precise differentiation of these tumors. This invention analyzes image processing based methodology for image segmentation of brain tumors using Artificial Intelligence and Deep Learning. According to an embodiment help neurosurgeons to have a quick view of the brain and underlying tumor during surgery without other bulky instruments. According to an embodiment method will save the time of experts in neuroradiology and will enhance the diagnosis accuracy at the same time. The results achieved from the method presented here are comparatively superior to the different available methods in the domain. Further, the accuracy suggests that the output can be adopted for medical treatment planning without ambiguity.

No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061361 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS OF WATER FILTRATION USING OF NANO ADSORBENTS LOADED POROUS CLAY-POT FILTERS

(51) International classification :C02F0001280000, B01J0020100000, C02F0001000000, B01D0015000000, B01J0020280000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a process for water filtration using customized clay-pot for pollutants removal from water. The Porous clay-pots are loaded with eco-friendly adsorbent. The Nano adsorbent loaded clay pots with pollutants having separation capacity. Porous smart-clay-pots are loaded with mixture of activated charcoal and Nano adsorbents having multiple pollutants separation capacity. The Clay-pots having ecofriendly adsorbent embedded porous wall. The Clay-pots having replaceable porous filter cartridge with multiple pollutants sorption capacity and are Ease to dispose filter after usage.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061362 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IOT BASED AUTOMATED TYRE THEFT ALARM SYSTEM FOR VEHICLES

<p>(51) International classification :B60R0025100000, H04L0029080000, B60C0023040000, G08B0025000000, G08B0021020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Address of Applicant :BIDHOLI CAMPUS, ENERGY ACRES, P.O. BIDHOLI VIA PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. AJAY PRASAD Address of Applicant :UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, BIDHOLI CAMPUS, ENERGY ACRES, P.O. BIDHOLI VIA PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND INDIA -----</p> <p>2)DR. KAUSHIK GHOSH Address of Applicant :UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, BIDHOLI CAMPUS, ENERGY ACRES, P.O. BIDHOLI VIA PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND INDIA -----</p>
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(57) Abstract :

The present invention provides an automated IoT based tyre theft alarm system that not only will generate an alarm while someone tries to take out the tyres of a parked vehicle, but also will intimate the owner and nearest law agencies through an IoT device. The system provided by the present invention comprising, a steel wire loop (A), welded to the inner side of tire rim, a battery power low energy consuming microcontroller (B) with RF communication module, Strong insulated wire through the loop connects both ends to the microcontroller and an Aduino or RPi system on the car dashboard connected to WiFi.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061366 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS OF DESIGNING A H-INFINITY BASED PROPORTIONAL INTEGRAL DERIVATIVE (PID) CONTROLLER

(51) International classification :G05B0013040000, G05B0011420000, G06F0111100000, C08K0005000000, G05B0005010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention discloses a process 100 for designing a robust and stable H-infinity based Proportional Integral Derivative (PID) controller for a non-linear Continuous Stirred Tank Reactor (CSTR), said process 100 comprising: estimating a plurality of performance parameter of said PID controller based on at least one of a relay feedback-based techniques and a process reaction curve technique; achieving an optimized response of said PID controller through the variation of said performance parameter; considering a model uncertainty and an external disturbance in mathematical modelling of said PID controller to achieve robust design of said PID controller; and identifying each of a stability, robustness, capability of disturbance rejection, and speed of said PID controller, through at least one of time response analysis, frequency response analysis, sensitivity analysis, complementary sensitivity, or worst-case sensitivity analysis.

No. of Pages : 34 No. of Claims : 8

(54) Title of the invention : SYSTEM OF VISION ENABLED EYE ACTIVITY BASED AUTOMATION OF APPLIANCES

<p>(51) International classification :A61H0005000000, H04N0005225000, H01M0002100000, G03B0017560000, G06F0001160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)UTTARANCHAL UNIVERSITY Address of Applicant :ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. RAJESH SINGH Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>----- 2)DR. ANITA GEHLOT Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>----- 3)SHAIK VASEEM AKRAM Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>----- 4)DHARAM BUDDHI Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>-----</p>
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(57) Abstract :

Discloses a System of Vision enabled eye activity-based automation of appliances comprises Camera (51), Computing Unit-ESP32 (52), Battery (54), Sero Motor 1(55, 56), Relay Board (71), Computing Unit (72), RF modem (73), 12V Power adaptor (74), AC Appliances (75). A camera is attached with each appliance on top with sero motor (56). The purpose of said camera (51) and servo motor (55), the camera catches the activity of the eye and motor rotates according to the eye rotation. The activity of the eye transferred to the computing unit ESP32 (52) controlling the appliances according to the rotation of the eye. A battery (54) is attached with the components for power supply; and the computing unit controls and pass that information to cloud with the help of RF modem (53).

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : AN EDGE BASED SYSTEM FOR MONITORING WATER HEALTH OF FISH POND USING SENSOR AND LORA TECHNOLOGY

(51) International classification :G01N0033180000, H04L0029080000, A01K0061800000, G06N0020000000, G06T0007130000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 An Edge based System for Monitoring Water Health of Fish Pond Using Sensor and LoRa technology An Edge based System for Monitoring Water Health of Fish Pond Using Sensor and LoRa technology comprises pond supervising unit (90, 91, 92), edge-based unit (80) and central gateway mote (70), edge-based unit (80), controller (20), turbidity sensor (22), pH sensor (23), salinity sensor (24) and dissolved oxygen (DO) sensor (25). The Pond supervising unit (90, 91, 92) comprises of sensors that are useful for monitoring the water health of the fish pond. The sensor assists Pond supervising unit (90, 91, 92) to transmit the water health status of fish pond to the edge-based unit; and the edge-based unit (80) empowered with machine learning model, analyses the received sensor data.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061378 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A DEVICE OF THERMAL STORAGE TENT HOUSE

(51) International classification :H02J0007350000, H02S0040220000, F24S0060000000, F24S0030000000, A41D0031060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Discloses herein a device of Thermal storage Tent House comprises Inner Cover (10), Top Cover (11), Thermal Storage (12), Electrical heating surface (13), insulating layer (14), temperature sensor (15), ESP32 (16), Application (17), OLED (18), Regulator (19), and Solar Panel (20). In another embodiment, the thermal storage tent consists of a sensor-based solar charging device that provides solar energy based on the temperature and the amount of thermal energy left in the thermal storage to the tent. In another embodiment, the temperature sensor built into the tent monitors the temperature and supplies solar power to the tent when the temperature is low. In another embodiment, the tent is formed with combination of five layers such as Inner cover, thermal storage, electrical heating surface, insulating layer and top cover. In another embodiment, the solar charging is powered from solar panels to the electrical heating surface of tent.

No. of Pages : 14 No. of Claims : 9

(54) Title of the invention : SWITCHED-SINK BIDIRECTIONAL POWER AMPLIFIER

<p>(51) International classification :H03F0003240000, H03F0003217000, H03F0003450000, H03F0001020000, H03F0003600000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)VANSHISH GARG Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>2)RAMANUJA PANIGRAHI Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p> <p>3)SANTANU K. MISHRA Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA - -----</p>
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(57) Abstract :

A switched-sink bidirectional power amplifier (200) is disclosed. The switched-sink bidirectional power amplifier (200) includes an AC power. Further, the switched-sink bidirectional power amplifier (200) includes a power amplifier 202 including a rectifier stage (204) to convert AC voltage received from the AC power supply (116) to the DC voltage. The power amplifier (202) includes a DC link 112 configured to convert the DC voltage into DC link voltage (VDC) and an H-bridge inverter (206) to convert the DC link voltage (VDC) to an amplified AC voltage. Furthermore, the power amplifier (202) includes an output filter (302) to filter out switching harmonics in the amplified AC voltage and a step-up transformer (304) to increase the filtered-out AC voltage, such that the increased AC voltage may be supplied to HuT (114). The power amplifier (202) also includes a power sink (118) with a controlled switch (210) to maintain the DC link voltage (VDC) between a predefined voltage band (VL - VH) to achieve bidirectional power flow in the power amplifier (202).

No. of Pages : 39 No. of Claims : 10

(54) Title of the invention : BITCOIN PRICE PREDICTION TECHNIQUE USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(51) International classification :G06N0020000000, G06N0003040000, G06N0003080000, G06Q0010040000, G06N0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 When it comes to predicting the value of Bitcoin, this paper discusses how linear regression and long short-term memory models work. Bitcoin has evolved into more of an investment vehicle as it has grown in popularity. It is based on the Block chain technology that has led to the creation of other cryptocurrencies. Because it is difficult to determine the value of this predictor, a Machine Learning Algorithm and an Artificial Neural Network Model are used to test it. Methodology: The researchers used bitcoin data sets to learn about machine learning and artificial intelligence. Python libraries were used to assist with the data filtering process. Python has one of the most powerful tools for working with data and making it look good: plotting. After reviewing our data, we narrow it down to the most important features and attributes. People tested the model, and the results were recorded. When compared to other Machine Learning models, the linear regression model has a 99.87 percent accuracy rate. In fact, it outperforms the competition. This model has a much lower mini error rate of 0.08 percent than the other models. When it comes to optimization, neural networks outperform machine learning, as demonstrated by the following example. The Tkinter library is used in this work to create a small GUI that allows people to enter values for the High, Low, and Open features of a coin in order to calculate how much the coin will be worth when it is traded again. This paper compares and contrasts ANN and machine learning models in terms of how they work. We used a linear regression to see how well each machine learning model performed in this study because there were other machine learning models.

No. of Pages : 10 No. of Claims : 8

(54) Title of the invention : ANALYSIS OF MARKETING COMMUNICATION OF THE SUB-SECTORS OF TOURISM

<p>(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0050140000, C07B0053000000, G09F0027000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. RAKESH KUMAR YADAV Address of Applicant :PROFESSOR SCHOOL OF BUSINESS MANAGEMENT, IFTM UNIVERSITY, LODHIPUR RAJPUT, (NH-24) MORADABAD- 244102, Uttar Pradesh -----</p> <p>2)Dr J Mahalakshmi 3)Dr. B. Sivakumar 4)Dr.P.SORUBARANI 5)Dr Sneha Rajput 6)Dr. Rahul Pratap Singh Kaurav 7)Dr Jitendra Sharma 8)Dr. V.Kannan 9)Dr.Harrison Sunil D Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. RAKESH KUMAR YADAV Address of Applicant :PROFESSOR SCHOOL OF BUSINESS MANAGEMENT, IFTM UNIVERSITY, LODHIPUR RAJPUT, (NH-24) MORADABAD- 244102, Uttar Pradesh -----</p> <p>2)Dr J Mahalakshmi Address of Applicant :Associate Professor in Commerce PSG College of Arts and Science, Civil Aerodrome Post, Coimbatore. 641 014, Tamil Nadu -----</p> <p>3)Dr. B. Sivakumar Address of Applicant :Associate Professor PSG College of Arts & Science Civil Aerodrome Post, Peelamedu, Coimbatore -641014, Tamil Nadu -----</p> <p>4)Dr.P.SORUBARANI Address of Applicant :Head of the Department B.Com (Business Analytics), KPR College of Arts Science and Research, Coimbatore- 641 407, Tamil Nadu -----</p> <p>5)Dr Sneha Rajput Address of Applicant :Sr. Assistant Professor, Management, Prestige Institute of Management and Research Gwalior -474012, Madhya Pradesh -----</p> <p>6)Dr. Rahul Pratap Singh Kaurav Address of Applicant :Associate Professor, Marketing, Fortune Institute of International Business (FIIB) New Delhi-110057, Delhi -----</p> <p>7)Dr Jitendra Sharma Address of Applicant :Professor, Business Management, Sankalchand Patel College of Engineering, Sankalchand Patel University, Visnagar, Mehsana-384315, Gujarat -----</p> <p>8)Dr. V.Kannan Address of Applicant :Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X Cut Signal,R.S.Puram, Coimbatore 641002, Tamil Nadu -----</p> <p>9)Dr.Harrison Sunil D Address of Applicant :Professor, Dept of Management Studies, College of Business & Economics, Bule Hora University,Bule Hora, ETHIOPIA. -----</p>
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(57) Abstract :
people's purchasing habits have shifted dramatically as a result of rapid technological advancement and the rise of the digital economy. Travelers are both the first and last to arrive. These factors must alter how people communicate with one another. Their actions, media consumption, level of involvement, and expectations must all be considered. All of them must be considered. The rate of change has accelerated dramatically in the last few decades. Almost everyone nowadays gets their entertainment from the Internet, cell phones, and other cutting-edge devices. According to a paper on the subject, people in the tourism industry should use more effective marketing communications when using modern communication tools. It also implies that these tools should be used at various stages of the decision-making process.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : AN OMNIDIRECTIONAL SENTRY ROBOT AND DRIVING SYSTEMFOR AUTOMATED SAFETY

(57) Abstract :

The present invention relates to an omnidirectional sentry robot and system comprising a rolling subsystem (21) having an automatically movable chassis (11), a column driving subsystem (22) comprising a vertical column (12) that further comprises a set of parent cameras (13), plurality of sensors (14) including atleast thermal, infrared sensor, carbon-di-oxide and sound sensor and a first motor automatically driving the vertical column (12) to position target(s) therearound, a fan driving subsystem (23) comprising a rotatable reckoning fan that comprises a weapon (17) installed on outmost end of each barrel of the fan, a child camera (18) covering the projection region of the weapon to position the target(s), plurality of sensors (19) and a second motor for driving the reckoning fan (15); and an operator control subsystem (24) for controlling motion of all other subsystems, and the weapon(s).

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061510 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR DEVELOPMENT OF ANALYTICAL TECHNIQUE FOR QUANTITATIVE ANALYSIS OF ANTIBIOTIC RESIDUES

<p>(51) International classification :G01N0030020000, G01N0030720000, G01N0030880000, G01N0030060000, G01N0030860000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MANAV RACHNA INTERNAIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004 Email ID: dean.research@mriu.edu.in Mb: 9560299045 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sabiha Imraan Address of Applicant :Biotechnology, FET,MRIIRS -----</p> <p>2)Dr. Sarita Sachdeva Address of Applicant :Biotechnology, FET,MRIIRS -----</p> <p>3)Dr. Jyoti Chawla Address of Applicant :Chemistry, FET, MRIIRS -----</p> <p>--</p>
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(57) Abstract :

A method for development of an analytical technique for quantitative analysis of antibiotic residues, wherein the method comprising steps of: adjusting a first set of parameters of a High-Performance Liquid Chromatography (HPLC) (104) based on a first set of factors; adjusting a second set of parameters of each of mass spectrometry detectors (104) based on a second set of factors; developing the analytical technique based on the adjusted first set of parameters and the second set of parameters by using a Liquid Chromatography-Mass Spectrometry (LC-MS/MS) instrument (100); and validating the developed analytical technique for obtaining information of a presence of the antibiotic residues in an effluent water sample and/or environmental samples.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061511 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD OF GAUGING EFFECT OF QUALITY OF WATER ON CONCRETE STRUCTURES

(51) International classification :G01N0033380000, G06Q0010060000, G05B0019406000, G06N0003080000, G08B0021180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr. Sunita Bansal

Address of Applicant :Civil Engineering, FET,MRIIRS -----

(57) Abstract :

A method (200) of assessing an impact of water quality on concrete structures, the method (200) comprising steps of collecting, by a data collection module (110), a first set of data associated with the water quality; collecting, by the data collection module (110), a second set of data associated with a composition and properties of the concrete structures; computing, by an analysis module (112), the first set of data and the second set of data to analyze a variation in the properties of the concrete structures when formed with the water; determining, by the analysis module (112), outcomes by comparing the computed first set of data and the second set of data with corresponding standard set of data; and generating, by a notification module (114), an alert notification when the computed first set of data and the second set of data deviates from the corresponding standard set of data.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061512 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DIGITAL PARKING TICKET

(51) International classification :G08G0001140000, G07B0015020000, B60L0050600000, G07F0017240000, H01S0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

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2)Dr. Nitasha Soni

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3)Dr. Anjali Gupta

Address of Applicant :Civil Engineering, FET,MRIIRS -----

(57) Abstract :

A digital parking ticket (100) for allocating an unoccupied parking slot is disclosed. The digital parking ticket (100) comprising: a control unit (102) for controlling functionalities of modules stored in a memory (104), wherein the memory (104) comprises: a display module (108) to display parking information for assisting a user at a parking space; an allocation module (110) configured to check an availability of unoccupied parking slots at the parking space to allocate the parking slot to the vehicle; and detect a forward path towards the allocated parking slot based on a meta-heuristic technique. The memory (104) comprises: a sensor module (112) comprising a plurality of sensors, wherein the sensor module (112) is configured to detect a position of the vehicle, a state of the vehicle, with respective to a map of the parking space; and a payment module (114) to generate a bill depending on a parking occupancy time.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : HEALTH MONITORING SYSTEM

<p>(51) International classification :A61B0005024000, A61B0005000000, A61B0005040200, A61B0005020500, A61B0005110000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MANAV RACHNA INTERNAIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004 Email ID: dean.research@mriu.edu.in Mb: 9560299045 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. G L Khanna Address of Applicant :Physiology, FAHS,,MRIIRS -----</p> <p>2)Dr. Puneet Batra Address of Applicant :Manav Rachna Dental College -----</p> <p>3)Dr. Amit Seth Address of Applicant :Business Administration ,MRIIRS -----</p> <p>4)Dr. Shilpa Arora Address of Applicant :Management Studies, MRIIRS -----</p> <p>5)Dr. Kanchan Bhardwaj Address of Applicant :Biotechnology, FET,MRIIRS -----</p>
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(57) Abstract :

A health monitoring system (100) is proposed. The health monitoring system (100) comprising: a smart and protective uniform (102) to be worn by a wearer, wherein the smart and protective uniform (102) comprises: an integrated electronic module (104) comprises: a sensor module (202) such that the sensor module (202) comprises sensors (300a-300l) to sense parameters selected from physiological parameters, psychological parameters, an environmental impact, or a combination thereof; a data processing unit (212) configured to: receive the sensed parameters; process the received parameters by performing statistical model analysis on the sensed parameters; transmit the processed parameters to a remote server (216). The health monitoring system (100) further comprising: a central monitoring unit (106) configured to: receive the processed parameters from the data processing unit (212); generate an analytical status data from at least one of the processed parameters indicative of a health status of the wearer.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061514 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : BORDER SURVEILLANCE SYSTEM

<p>(51) International classification :G08B0013196000, H04N0007180000, G06T0007586000, A61B0005000000, G08B0029200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MANAV RACHNA INTERNAIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004 Email ID: dean.research@mriu.edu.in Mb: 9560299045 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pradeep Kumar Address of Applicant :Physics, FET,MRIIRS -----</p> <p>2)Dr. Devendra Vashist Address of Applicant :Automobile Engineering,FET,MRIIRS -----</p> <p>3)Dr. Leena G Address of Applicant :Electronics Electrical Engineering, FET, MRIIRS -----</p>
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(57) Abstract :

A border surveillance system (100), comprising: a monitoring unit (102) comprises: cameras (108a-108n) to capture a first set of images; a motion sensor (110) to sense a first level of infrared radiations emitted by intruders; pressure sensors (114a-114m) to sense a level of pressure exerted on a carbon fiber sheet; a ground penetration radar (118) to capture a second set of images below a surface of ground; a control unit (122) configured to: receive the first set of captured images and the second set of captured images; receive the first level of sensed infrared radiations and the sensed level of pressure; compare pixel values of the first set of captured images and the second set of captured images with threshold values; compare the first level of sensed infrared radiations with a pre-defined level and the sensed level of pressure with a pre-defined pressure level; and generate a motion detection alert.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061515 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART TABLE

(51) International classification :H02J0007020000, H02J0050100000, H02J0007000000, H02J0050120000, H02J0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A smart table (100) is disclosed. The smart table (100) comprising: an inbuilt induction based universal wireless charging system (102), wherein the wireless charging system (102) comprises: a transmission system (104) configured under an outer surface of the smart table (100), wherein the transmission system (104) comprises: a transmission coil (108) adapted to work on mutual induction; a power circuitry (110) to provide a corresponding alternating current/voltage to the transmission coil (108); a frequency modifier (112) configured for modifying a frequency of the alternating current/voltage. The wireless charging system (102) further comprises: a receiver system (106) inbuilt with a re-shapeable charging pad adapted for charging an electronic gadget, wherein the receiver system (106) comprises: a receiving coil (114) adapted to get energized with an electromagnetic magnetic flux induced from the transmission coil (108).

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061516 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR EARLY CARDIOVASCULAR RISK PREDICTION AND RISK CLASSIFICATION

(51) International classification :G06N0005040000, G06Q0010060000, G16H0050300000, G16H0010600000, G16H0015000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr. Moattar Raza Rizvi
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Address of Applicant :Biotechnology, FET,MRIIRS -----

(57) Abstract :

The present invention relates to a method for an early Atherosclerotic Cardiovascular (ASCV) risk prediction and risk classification, wherein the method comprising steps of: collecting patient data; pre-processing of the collected data by an algorithm using a Gaussian Copula; selecting an optimal features subset from the pre-processed data using a Swarm Intelligence (SI) technique; evaluating the selected optimal features subset through a wrapper-based fitness function using a multi-Support Vector Machine (multi-SVM) classifier to generate a first risk prediction; feeding the selected optimal features subset into an Adaptive Neuro-Fuzzy Inference System (ANFIS) to generate a second risk prediction; validating the first risk prediction and the second risk prediction with an output of a standard model; and generating a report, when the generated first risk prediction and the generated second risk prediction is matched with the output of the standard model.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061517 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : WIND ENERGY GENERATOR

(51) International classification :F03D0009250000, F03D0003060000, F03D0009110000, F03D0009170000, F03D0007020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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3)Dr. Sadiqa Abbas

Address of Applicant :Civil Engineering, FET,MRIIRS -----

(57) Abstract :

A wind energy generator (100) is proposed. The wind energy generator (100) includes a wind turbine (102), wherein the wind turbine (102) comprises: a rotating shaft arranged in one of, a vertical orientation or a horizontal orientation to an axis of the wind turbine (102), such that the wind turbine (102) is adapted for converting a force of wind into a torque on the rotating shaft; a gear box (104) mutually connected with the wind turbine (102) and contacting with a piezoelectric stack (106), such that a rotation of the rotating shaft enables a rotation of gears of the gear box (104) to vibrate the piezoelectric stack (106) for generating an electrical energy; and a battery (110) coupled to the wind turbine (102) and the piezoelectric stack (106) to draw a maximum amount of the electrical energy from the corresponding wind turbine (102) and the piezoelectric stack (106).

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : COST-EFFECTIVE GENERATION SCHEDULING IN BATTERY INTEGRATED RENEWABLE GENERATION GRID INTEGRATED ENVIRONMENT

<p>(51) International classification :H01M0010420000, H04W0072120000, H02J0003380000, G06F0001260000, H04N0005225000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Shubham Tiwari Address of Applicant :Assistant Professor, Department of Electrical & Electronics Engineering (EN), ABES Engineering College, Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 2)Dr. Vikas Singh Bhadoria Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering (EN), ABES Engineering College, Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 3)Mr. Raju Kumar Maurya Address of Applicant :Assistant Professor, Department of Electrical & Electronics Engineering (EN), ABES Engineering College, Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 4)Mr. Abhishek Kumar Gupta Address of Applicant :Assistant Professor, Department of Electrical & Electronics Engineering (EN), ABES Engineering College, Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p>
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(57) Abstract :

The present disclosure discloses a system (100) for cost-effective generation scheduling in battery integrated renewable generation grid integrated environment. The system (100) includes a plurality of variegated generation sources; a microcontroller (104) comprising: a non-transitory storage unit (104A) coupled with one or more of processors (104B). The processors (104B) are configured to provide cost-effective generation scheduling in battery integrated renewable generation grid system.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061568 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : IOT BASED FACE RECOGNITION BOT

<p>(51) International classification :G06K0009000000, G07C0001100000, G06F0003010000, G06F0011360000, G06T0007730000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Devvrat Tyagi Address of Applicant :Assistant Professor (Selection Grade), Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 2)Mr. Rajnesh Kumar Singh Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 3)Ms. Ayushi Srivastava Address of Applicant :Student, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India - ----- 4)Ms. Geeta Upadhyay Address of Applicant :Student, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India - ----- 5)Mr. Pravish Bajpai Address of Applicant :Student, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India - -----</p>
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(57) Abstract :

The present disclosure discloses an automated attendance system (1000). The system (1000) includes an image capturing unit (100); a face recognition device (200) for recognizing a plurality of faces in a same time interval. The device (200) includes a microcontroller (202) including a non-transitory storage unit (202A) coupled with one or more of processors (202B), operable to execute one or more subunits. The subunits are configured to recognize multiple faces in a same time interval.

No. of Pages : 24 No. of Claims : 6

(54) Title of the invention : IOT BASED ATTENDANCE MONITORING SYSTEM OF AN ORGANIZATION USING PYTHON LANGUAGE

<p>(51) International classification :G06K0009000000, G07C0001100000, H04N0007150000, H04N0007140000, H04M0003560000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Santosh Kumar Address of Applicant :Associate Professor, Lucknow Public College of Professional Studies, Vinamra Khand, Gomti Nagar, Lucknow-226010, Uttar Pradesh, India -----</p> <p>2)Ms. Anu Yadav</p> <p>3)Dr.Reshma V.K</p> <p>4)Mr. GHUGE ADITYA CHANDRAKANT</p> <p>5)Dr. Pankaj Saxena</p> <p>6)Mr.Amedapu Srinivas</p> <p>7)Mr. Sathish Kumar</p> <p>8)Mr. Y. M. Mahaboobjohn</p> <p>9)Dr. Arun Kumar Pallathadka</p> <p>10)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Santosh Kumar Address of Applicant :Associate Professor, Lucknow Public College of Professional Studies, Vinamra Khand, Gomti Nagar, Lucknow-226010, Uttar Pradesh, India -----</p> <p>2)Ms. Anu Yadav Address of Applicant :Research Scholar Phd (CSE), Indira Gandhi Delhi Technical University for Women, Delhi, India -----</p> <p>3)Dr.Reshma V.K Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Machine Learning, Hindustan College of Engineering and Technology, Valley campus,Pollachi highway,Othakkalmandapam, Coimbatore- 641032,Tamilnadu, India -----</p> <p>4)Mr. GHUGE ADITYA CHANDRAKANT Address of Applicant :Assistant Professor, Navjeevan Law College, Nasik- 422101, Maharashtra, India -----</p> <p>5)Dr. Pankaj Saxena Address of Applicant :Associate Professor College Name with address: R.B.S. Management Technical Campus, Khandari Farm Campus, Agra (U. P)- 282002, U.P, India -----</p> <p>6)Mr.Amedapu Srinivas Address of Applicant :Associate Professor, Sreenidhi Institute of Science and Technology, Hyderabad- 500088, Telangana, India -----</p> <p>7)Mr. Sathish Kumar Address of Applicant :Addl. Manager, SCCL-507101, Telangana, India. -----</p> <p>8)Mr. Y. M. Mahaboobjohn Address of Applicant :Assistant Professor, Mahendra College Of Engineering, Minnampalli, Salem- 636106, Tamilnadu, India. -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West-795140, Manipur, India -----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West- 795140, Manipur, India -----</p>
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(57) Abstract :

One of the most pressing issues in the modern world of information systems is determining the veracity of data. Users can be authenticated in a variety of ways, including Human Face Recognition (HFR). HFR has been used for a variety of purposes, including video conferencing systems, military applications, and attendance tracking systems, to name a few. Keeping track of attendance by hand can be time-consuming and error-prone. Biometrics can be used in a variety of ways to implement an automated attendance system. This system can help reduce the number of people who pretend to be present and vote with their hands. Taking attendance by fingerprint or face recognition will be faster and easier than writing it down, saving time and making the process easier.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : COST ESTIMATION SYSTEM FOR AGRICULTURAL YIELDS

(51) International classification :H04L0029080000, G01N0021359000, H05B0047190000, G05D0001020000, A61N0001372000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention relates to a cost estimation system for agricultural yields comprising a robotic body wirelessly interlinked with a remote controller configured with radio frequency signals, plurality of mass flow sensors arranged with the body and in communication with a microcontroller, plurality of NIR (Near-Infrared) sensors arranged with the body and in association with the microcontroller, a remote controller configures with a RF (Radiofrequency) module and in association with the microcontroller and robotic body, an IOT (Internet of Things) programmed with the system.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061618 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : BREATH ANALYSIS DEVICE

(51) International classification :G01N0033497000, A61B0005080000, A61B0005097000, B63J0002020000, E05B0047000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a breath analysis device comprising a housing 1 having a rotatable motorized cylinder 2 that is configured with multiple tubular mouthpieces 3, a biometric scanner integrated with a touch interactive display panel 5 positioned on the housing 1 for scanning fingerprints of a user, an artificial intelligence enabled image capturing module 6 installed on the housing 1 to perform multi-level authentication, a motor controller connected with microcontroller dedicated towards actuation of a pneumatic unit linked with a corresponding tubular mouthpiece 3 that is supposed to be extended to reach up to mouth portion of user, multiple chambers 9 equipped with several nanoparticle based sensors 10 installed inside the compartment 7, an electronically controlled valves 11 installed in each chambers 9 for allowing passage of the exhaled out air inside the chambers 9 and results of the diagnosis is displayed on the panel 5.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : DEEP LEARNING IN MATHEMATICAL SCIENCE AND STATISTICAL ANALYSIS

<p>(51) International classification :G06N0020000000, G06K0009620000, G06N0005040000, G06N0003040000, G06N0003080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Abha Singh Address of Applicant :Basic Science, College of Science and Theoretical Study, Dammam-Female Branch, Saudi Arabia ----- ----- 2)Dr. Abdullah Ali H. Ahmadini 3)Dr. Aftab Alam 4)Dr. Manoj Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Abha Singh Address of Applicant :Basic Science, College of Science and Theoretical Study, Dammam-Female Branch, Saudi Arabia ----- ----- 2)Dr. Abdullah Ali H. Ahmadini Address of Applicant :Department of Mathematics, Faculty of Science, Jazan University, Jazan, Saudi Arabia ----- ----- 3)Dr. Aftab Alam Address of Applicant :Department of Mathematics and Statistics, Keral Verma Subharti College of Science, Swami Vivekanand Subharti University, Meerut, UP-250005 ----- ----- 4)Dr. Manoj Singh Address of Applicant :Department of Mathematics, Faculty of Science, Jazan University, Jazan, Saudi Arabia ----- -----</p>
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(57) Abstract :

This invention analyzes deep learning in mathematical science and statistical analysis. Deep learning is a specialized form of machine learning. A machine learning workflow starts with relevant features being manually extracted from images. The features are then used to create a model that categorizes the objects in the image. With a deep learning workflow, relevant features are automatically extracted from images. In addition, deep learning performs end-to-end learning – where a network is given raw data and a task to perform, such as classification, and it learns how to do this automatically. Deep learning in mathematical science and statistical analysis have already taken over a lot of jobs that were previously carried out by humans and every time we got to a point where the chance that humans could lose jobs, more jobs were created thereby increasing prosperity and the quality of life for humans. Deep learning in mathematical science and statistical analysis assists us and improves our lives. Deep learning in mathematical science and statistical analysis especially AI is capable of increasing our quality of intelligence as humans.

No. of Pages : 11 No. of Claims : 2

(54) Title of the invention : IOT BASED ATTENDANCE MONITORING SYSTEM OF AN ORGANIZATION USING PYTHON LANGUAGE

<p>(51) International classification :G06K0009000000, G07C0001100000, G06Q0050200000, G06F0003048400, G06T0007600000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Zatin Gupta Address of Applicant :Assistant Professor, KIET Group of Institutions, Delhi-NCR, Ghaziabad & Research Scholar, Department of CSE, MMEC, MM(DU), Ambala -----</p> <p>2)Mr. Dhananjay Umrao 3)Mr. Satish Gulabrao Kamble 4)Mr. Ankit Singh 5)Mr. Ashif Ali 6)Dr. Mohd Sadim 7)Ms. Himani Varolia 8)Mr. BALRAM TAMRAKAR 9)Mr. Anil Kumar Singh 10)Dr. Ajay Kumar Sahu Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Zatin Gupta Address of Applicant :Assistant Professor, KIET Group of Institutions, Delhi-NCR, Ghaziabad & Research Scholar, Department of CSE, MMEC, MM(DU), Ambala -----</p> <p>2)Mr. Dhananjay Umrao Address of Applicant :S-209, RA Tower, IIT Campus, IIT Kanpur, Uttar Pradesh-208016 -----</p> <p>3)Mr. Satish Gulabrao Kamble Address of Applicant :PVG's College of Engineering and Technology & G. K. Pate (Wani) Institute of Management, Pune -----</p> <p>4)Mr. Ankit Singh Address of Applicant :185, Nanak Ganj, Near Gurudwara, Sipri Bazar, Jhansi, 284003 -----</p> <p>5)Mr. Ashif Ali Address of Applicant :Assistant Professor, Echelon Institute of Technology, Faridabad - 121101 -----</p> <p>6)Dr. Mohd Sadim Address of Applicant :Associate Professor, Meerut Institute of Technology, Meerut-250103 -----</p> <p>7)Ms. Himani Varolia Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Meerut Institute of Engineering & Technology, Meerut -----</p> <p>8)Mr. BALRAM TAMRAKAR Address of Applicant :KIET Group of Institutions Delhi NCR Ghaziabad -----</p> <p>9)Mr. Anil Kumar Singh Address of Applicant :RKGIT, Ghaziabad -----</p> <p>10)Dr. Ajay Kumar Sahu Address of Applicant :IMS Engineering College, NH-24, Ghaziabad -----</p>
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(57) Abstract :

The current invention pertains to an automated attendance management system and technique that uses facial recognition technology to track attendance. A terminal installed in each lecture room identifies an RFID tag connected to a pass or a student ID card, or it may be programmed to identify a name or a class by entering the information into the terminal. Upon pressing a specified button on the terminal, a camera takes a snapshot of the user's face. The terminal sends a terminal device ID, name/class/tag information, a face photo, and visual information to a U-Campus information server, which stores the information in the server's database. The terminal also sends terminal device ID and name/class/tag information to a U-Campus information server. The amount of student picture data previously saved in the server's database has been rectified to a more conventional size. To assess the faces of attending students, the server compares images of the students that have previously been saved in its database with typical values of the forehead, eye, nose, and mouth face feature points of photos of students whose sizes and angles have been rectified. The information regarding a student's attendance or absence is saved in the U-Campus information server once again to do an automated check on attendance or absence for that student.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061660 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN AI BASED SYSTEM FOR RECEIVING FEEDBACK OF A READER IN ONLINE READING AND METHOD THEROF

(51) International classification :G05B0015020000, G06Q0030020000, G06K0009620000, G05B0019418000, G01S0013580000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system for receiving feedback of a reader for an online document and method thereof. The method and system includes, but not limited to, one or more processing units provided in a cloud server architecture configured with a regression analysis module for receiving the feedback of a reader while reading any data information by way of auto-selection of various feedback icons provided on a graphical user interface; an artificial intelligence (AI) interface to determine reader expressions, which is to be detected through previous learned data and interest of a reader with one or more user devices.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061672 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD AND SYSTEM FOR SYNCHRONIZING OPERATION OF A FREQUENCY-CODED QUANTUM KEY DISTRIBUTION SYSTEM

(51) International classification :H04L0009080000, H04L0001000000, H04B0010700000, H04B0007185000, B67D0007040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A method (100) for synchronizing operation of a frequency-coded quantum key distribution system is disclosed. The method (100) includes establishing a communication connection between a first quantum key distribution station and a second quantum key distribution station. The method (100) includes receiving a square waveform with a frequency corresponding to initialization file on a S-channel from the second quantum key distribution station. The method (100) includes transmitting a first radio frequency signal of specific periodic 16-bit data pattern with a specific data rate and radio frequency carrier to the second quantum key distribution station upon receiving the square waveform. The method (100) includes determining if a maximum interferometer output is achieved by constantly measuring radio frequency phase difference between the first quantum key distribution station and second quantum key distribution station. The method (100) includes terminating the incrementing of the phase if the maximum interferometer output is achieved.

No. of Pages : 44 No. of Claims : 20

(54) Title of the invention : AN IOT BASED SURVEILLANCE SYSTEMS FOR ATM AND METHOD THEREOF

(51) International classification :H04L0029080000, G07F0019000000, H04N0005225000, H04N0007180000, G06K0009000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention provides a method and a system provides ATM surveillance. The system comprising a camera module, wherein the camera module is configured to record the video of surrounding a fog device, wherein the fog device is configured to provide storage, and networking services between cloud data centres and node devices; a cloud data centre, wherein the cloud data center is configured to provide mobile real time data processing; wherein the recorded video is classified into four categories i.e., single normal, single abnormal, multiple normal, and multiple abnormal.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : A SYSTEM FOR DISEASE DETECTION IN PLANTS USING DEEP CONVOLUTIONAL NEURAL NETWORK AND METHOD THEREOF

<p>(51) International classification :G06N0003040000, G16H0050200000, G06K0009620000, G06T0007000000, G06N0003080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Nabeel Ahmad Address of Applicant :Associate Professor & Head, School of Biotechnology, IFTM University Moradabad U.P. India 244102 -----</p> <p>2)Dr Arvind Kumar Shukla</p> <p>3)Dr. Preeti Bala</p> <p>4)Mr. Rajan Prasad</p> <p>5)Dr. Abhishek Kumar Mishra</p> <p>6)Dr. Rakesh Kumar Yadav</p> <p>7)Mr. Adnan Ahmad</p> <p>8)Om Prakash Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Nabeel Ahmad Address of Applicant :Associate Professor & Head, School of Biotechnology, IFTM University Moradabad U.P. India 244102 -----</p> <p>2)Dr Arvind Kumar Shukla Address of Applicant :Associate Professor, Department of Computer Application,IFTM University, Moradabad U.P. India 244102 -----</p> <p>3)Dr. Preeti Bala Address of Applicant :Assistant Professor, Department of Computer Application, SRMIST, Delhi-Meerut Road, Modinagar, U.P. 201204 -----</p> <p>4)Mr. Rajan Prasad Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Babu Banarasi Das University, Lucknow-206028, U.P. India -----</p> <p>5)Dr. Abhishek Kumar Mishra Address of Applicant :Associate Professor, Department of Computer Science & Engineering , SCS & A, IFTM University, Moradabad UP, India 244102 -----</p> <p>6)Dr. Rakesh Kumar Yadav Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, SCS & A, IFTM University, Moradabad UP, India 244102 -----</p> <p>7)Mr. Adnan Ahmad Address of Applicant :Assistant Professor, Department Of Bioengineering, Integral University, Lucknow U.P. India 226022 -----</p> <p>8)Om Prakash Singh Address of Applicant :Department of Computer Science & Engineering, Dr. K.N. Modi Institute of Engineering and Technology, Modinagr, Ghaziabad, 201204, U.P. India -----</p>
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(57) Abstract :

The present invention discloses a system for disease detection in plant leaves using deep convolutional neural network and method thereof. The present invention is comprised of, but not limited to, a processing unit communicatively coupled with a memory unit for collecting dataset containing various image set of plant leaves. Further, the dataset collected, can contain a plurality of images of plant leaves distributed proportionally among various classes—cedar rust, multiple diseases, and healthy leaves.

No. of Pages : 19 No. of Claims : 4

(54) Title of the invention : DESIGN OF COMPOUND FREEZE CASTING PROCESS

<p>(51) International classification :C04B0035640000, A61C0013200000, F21Y0101000000, G01N0001440000, A23L0003440000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Girendra Bhati Address of Applicant :J.C. Bose University of Science & Technology, YMCA, Faridabad. Address: NH-2, Sector-6, Mathura Road, Faridabad- 121006 Haryana (INDIA). -----</p> <p>2)Dr. Vikram Singh, Professor 3)Dr. Sanjeev Kumar, Professor 4)Dr. Sudhir Kumar, Professor Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Girendra Bhati Address of Applicant :J.C. Bose University of Science & Technology, YMCA, Faridabad. Address: NH-2, Sector-6, Mathura Road, Faridabad- 121006 Haryana (INDIA). -----</p> <p>2)Dr. Vikram Singh, Professor Address of Applicant :J.C. Bose University of Science & Technology, YMCA, Faridabad. Address: NH-2, Sector-6, Mathura Road, Faridabad- 121006 Haryana (INDIA). Phone No: +91-9818899884 -----</p> <p>3)Dr. Sanjeev Kumar, Professor Address of Applicant :J.C. Bose University of Science & Technology, YMCA, Faridabad. Address: NH-2, Sector-6, Mathura Road, Faridabad- 121006 Haryana (INDIA). Phone No: +91-9818187936 -----</p> <p>4)Dr. Sudhir Kumar, Professor Address of Applicant :Inderprastha Engineering College, Ghaziabad. Address: C-602 NRI Residence, Omega 1 Greater Noida Phone No: +91- 9720623068 -----</p>
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(57) Abstract :

Generally, freeze casting process is preferred over other processes because of low production cost, porous structure, crack-free ceramics, ecofriendly, a wide range of composites, complex shape as well as geometry and zero shrinkage products. Conventional freeze casting has several problems like sedimentation of heavy particles before freezing, non-uniform freezing in various directions as well as non-uniform heating rate during the sublimation and sintering process. The combined effect of convection, conduction and radiation generates the heat on the surface of the sample and then propagated towards inside. To reduce the impact of these problems, there is a need to design an experimental set up of freeze casting in which the traditional open heart and muffle furnace is replaced by microwave furnace. The design of flask generates the positive results in multi-directional heating and cooling. Ultrasound waves and magnetic field reduced the effect of sedimentation. This proposed casting process will be known as compound freeze casting process.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061710 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IOT BASED ANIMAL HUSBANDRY ASSISTANCE SYSTEM AND A METHOD THEREOF

(51) International classification :H04L0029080000, G06K0009000000, G06Q0050020000, A01K0005020000, G16H0050200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 In an aspect, the present invention discloses an IoT based automated animal husbandry assistant system (100). The system (100) includes a plurality of thermal cameras (102) positioned along a predefined track; at least one robotic device (104); and an animal husbandry assistant device (106). The device (106) includes a sensing unit (108) attached to each of a heard of animals. The sensing unit (108) includes a plurality of sensors for the purpose of locating, detecting, and instructing animals while motion thereof. A microcontroller (110) comprising a memory (110A) coupled with one or more processors (110B) operable to execute the one or more subunits.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061713 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : IOT BASED SMART CHAIR FOR DETECTING AND REGULATING BODY PAIN AND DISPLAYING THE PARAMETER ON THE DEVICE

<p>(51) International classification :A61B0005000000, A61B0005020500, A61B0005145500, A61B0005021000, A61B0005024000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. (Dr.) Devendra Kumar Address of Applicant :Professor & Head, Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p> <p>2)Ms. Nishi Sharma Address of Applicant :Assistant Professor (Sr. Scale), Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India - -----</p> <p>3)Ms. Ekta Jain Address of Applicant :Assistant Professor (Sr. Scale), Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India - -----</p>
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(57) Abstract :

The present disclosure discloses a chair (100) for body pain management. The chair (100) includes a sensing unit (102). The sensing unit (102) includes a plurality of sensors to determine physiological parameters and motion of a person sitting in the chair (100). The chair (100) includes a microcontroller (104). The microcontroller (104) includes a non-transitory storage unit (104A) coupled with one or more of processors (104B). The processors (104B) are operable to execute one or more modules. The modules configured to manage body pain. The chair (100) includes a plurality of heating pads embedded in cushion of the chair (100).

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061714 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DEVICE FOR IDOLS DISPERSAL AND A SYSTEM THEREOF

(51) International classification :G01R0019250000, G09B0019000000, G06F0016230000, G02B0027120000, G01B0011220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses an idol dispersal device (100) comprising an enclosure (102) having a window (104) through which a plurality of idols (106) ingressed, and a plurality of openings (108) to allow a plurality of waterfalls (110) therethrough to fall upon the plurality of idols (106) from all the sides for dispersion thereof. The device (100) includes a sensing unit (112C), including a plurality of sensors to determine weight and presence of the plurality of idols (106) on the tray (112), along with the total weight of the tray (112); and a microcontroller (114) comprising a non-transitory storage unit coupled with one or more processors (114A) operable to execute one or more subunits. The subunits are configured to cause dispersion of the idols without hurting religious sentiments.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061715 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : GPS NAVIGATION SYSTEM TO SHOW THE QUALITY OF ROAD

(51) International classification :G01C0021340000, G08G0001096800, G06N0003000000, A61B0005020500, G08G0001096900

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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2)Prof. (Dr.) Devendra Kumar

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(57) Abstract :

The present disclosure discloses a GPS navigational system. The system (100) includes a sensing unit (102), comprising a plurality of sensors to determine specification and quality of a plurality of road segments, and to recognize language of a user; a microcontroller (104) comprising a non-transitory storage unit (104A) comprising recorded specifications and quality of each of the ahead roads along with thresholds, and a plurality of rules defining compatibility of a vehicle to traverse through a particular road depending upon specifications of the vehicle, and a library of regional languages; and one or more of processors (104B), operable to execute one or more modules.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061740 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A CIRCULAR INTERACTIVE LAMP AND METHOD THEREOF

(51) International classification :G01B0011250000, F21K0009900000, H01L0033540000, F21V0021140000, H01J0009020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present Invention is in the field lamp. The Invention particularly provides a method and a device whereby change the angle of lamp light pattern, light color, light intensity can be changed.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061756 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : HYDRO-CONDUCTIVE GROUNDER

(51) International classification :G01N0027600000, G06Q0030060000, C02F0001480000, B08B0009093000, G01N0027060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a cost-effective Hydro-conductive grounder. Brine water solution due to the presence of disintegrated salt ions (Sodium and Chlorine in this experimental setup) has a tendency and can absorb charges through free ions-[2]. The same principal of charge absorption of water can be used to collect static electrical charges from tanks and containers having flammable fluids. This can be done by filling the area around storage tanks with brine water solution and earth the brine water with the help of antistatic fabric strands. The figure 1 is a graph indicating the conductivity analysis of brine solution at an average temperature of 23.72 °C measured in milli siemens

No. of Pages : 23 No. of Claims : 5

(54) Title of the invention : A SMART SWITCHING SYSTEM FOR PLUG-IN HYBRID VEHICLES

(51) International classification :B60L0050160000, B60K0006120000, B60K0006480000, H01M0010052500, B60W0020000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention provides a system to develop a Plug-in Hybrid vehicle system that will be capable of running in two different modes of operation, with distinct power type, such as an Internal Combustion engine, which is powered by petrol through a fuel-tank and the other is, BLDC (1000W) electric motor, powered by a 48V Li-ion battery. The two modes of operation namely- Economy mode and Power mode, are alternatively utilized by means of a switching technique to automatically convert a fuel-tank system to electrical & vice-versa, depending on the parameters.

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : A VISION AND EDGE ENABLED SYSTEM FOR SEDIMENTATION LEVEL DETECTION IN FISH PONDS

(51) International classification :H04N0005232000, H04N0005225000, A61H0005000000, H04L0029080000, G01D0021020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Discloses a Vision and Edge Enabled System for Sedimentation Level Detection in Fish Ponds comprises vision-based mote (10, 11, 12), local supervising authority (20) and central gateway (30), ML based computing unit (50), LoRa module (51), display unit (52), power supply (53), HD camera module (54), LoRa module (81, 92), Alarm module (94), and ESP 8266 Wi-Fi module (82). The obtained results from the vision-based mote (10, 11, 12) are transmitted to the cloud server through local supervising authority (20) and central gateway (30). A local supervising authority (20) is placed in the proposed architecture for supervising the data receiving from the different vision-based mote (10, 11, 12). The local supervising authority identifies the identity of the specific vision-based mote through the identification number that is allotted to it during programming.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : A SYSTEM OF SMART SOFT-BOARD WITH IOT

<p>(51) International classification :H04L0029080000, G06Q0010100000, A61B0008000000, H04N0021482000, A63B0071060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)UTTARANCHAL UNIVERSITY Address of Applicant :ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MUKESH PANDEY Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>2)ASHISH CHAUHAN Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>3)ANIMESH RATURI Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>4)NIDHI DHIMAN Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>5)NISHA GUPTA Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p> <p>6)KAVITA GAIRA Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----</p>
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(57) Abstract :
A system of Smart Soft-Board with IOT A system of Smart Soft-Board with IOT comprises a Display (100), Buttons (102), Control module (103), Power source (104), Control Software (105), Speaker (106). wherein a digital display is attached along with speakers and presentable buttons; said buttons help in controlling cycle of multiple notice grids in the display using control module present in the model. In another embodiment, the system also contains a control software, the heart of the model which is responsible for the overall operations and working of the system. In another embodiment, the data is holded and send by the control software present at the cloud storage which is reflected to the digital display of the model. In another embodiment, to provide the dynamic feature to the display, the presentable buttons hold user's choice of viewing the particular grid of the noticeboard which is transferred to and handled by control module present in the model.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : MOTION ASSISTANCE DEVICE FOR CRIPPLE

<p>(51) International classification :A61H0001020000, A61H0003000000, A61G0005140000, A63B0021068000, A63B0021040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Avnish Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Uttaranchal University, Dehradun, Uttarakhand, India - 248007 ----- 2)Nitin Duklan 3)Dr. Shushant Singh 4)Dr. Surender Kumar 5)Dr. Deepak Bhardwaj 6)Shweta Rani Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Avnish Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Uttaranchal University, Dehradun, Uttarakhand, India - 248007 ----- 2)Nitin Duklan Address of Applicant :Assistant Professor, Department of Computer Application, Uttaranchal Institute of Management, Uttaranchal University, Dehradun, Uttarakhand, India- 248007 ----- 3)Dr. Shushant Singh Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Uttaranchal University, Dehradun, Uttarakhand, India- 248007 ----- 4)Dr. Surender Kumar Address of Applicant :Professor, Department of Electronics &Communication Engineering, Dr. Akhilesh Das Gupta Institute of Technology & Management, Shastri Park, Delhi-110053 ----- 5)Dr. Deepak Bhardwaj Address of Applicant :Professor, Department of Mechanical Engineering, Dr. Akhilesh Das Gupta Institute of Technology & Management, Shastri Park, Delhi-110053 ----- 6)Shweta Rani Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KIET Group of Institutions, Ghaziabad Uttar Pradesh-201206 -----</p>
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(57) Abstract :

A motion assistance device for cripple comprising a body 1 configured with multiple motorized wheels 2 for maneuvering the body 1, a pair of telescopic supporting bars 3 that extends/retracts in accordance to height of a user and adapted to move in back and forth direction, a rigid pole 6 that is held by the user while moving through the body 1, a tilt sensor 7 in sync with an artificial intelligence image capturing module 8 for detecting angle of inclination of the user, a telescopic pusher 9 for moving the bars 3 for providing balance to the user, an adjustable strap 10 wrapped on a motorized which is accessed by the user to rest lower portion of the body, a pair of L-shaped telescopic rod 12 for providing support on rear portion of knees of the user and a seating pad 13 for providing seating space to the user.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061911 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PLUG-IN HYBRID ELECTRIC VEHICLES POWERED ON-WHEEL MEDICAL OXYGEN GENERATOR

(51) International classification :C01B0013020000, H02J0007000000, B60L0058100000, B01D0053047000, B60L0003120000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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3)Dr Sunny Bhatia

Address of Applicant :Automobile Engg,FET.MRIIRS -----

(57) Abstract :

A plug-in hybrid electric vehicle (100) comprising: an oxygen generator (110) to generate oxygen using a mature pressure swing adsorption technology; a power sharing unit (104) configured to distribute electrical energy of on-board batteries (116a-116m); a battery management system (102) to optimize parameters associated with the on-board batteries (116a-116m), comprising a control unit (124) configured to: receive data associated with parameters of the on-board batteries (116a-116m) from a sensor unit (118) and data associated with parameters of the oxygen generator (110) from a generator sensor unit (132); determine power requirements of the oxygen generator (110) based on the received parameters; enable the power sharing unit (104) to distribute the electrical energy of the on-board batteries (116a-116m) to the oxygen generator (110), the internal electrical devices (108a-108n), and the wheel motor control (106) based on the determined power requirements.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061912 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : UNIFIED PUBLIC TRANSPORTATION SYSTEM

(51) International classification :G06Q0010100000, G08G0001127000, B61L0027000000, G08G0001000000, G08G0001123000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Planning & Architecture, MRIIRS -----

(57) Abstract :

A unified public transportation system (100) is disclosed. The unified public transportation system (100) comprising: a communication module (104) adapted to establish a communication link between vehicles (114a-114n) and the central control unit (102), wherein the communication module (104) comprises vehicle tracking units (116a-116n) to track a real time location of the vehicles (114a-114n); a central database (106) configured for storing a schedule and route information of the vehicles (114a-114n); an information module (108) configured to: collect, segregate and refine the information received from the communication module (104) and the central database (106); and display the information at a unified information platform (118). The unified public transportation system (100) further comprising: a payment module (110) comprises card readers (202a-202n) to read a unified payment card (200) and to charge a passenger on a basis of a transit type and a transit route.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061913 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CENTRAL TRAFFIC CONTROL SYSTEM AND METHOD

<p>(51) International classification :G08G0001010000, G08G0001080000, G08G0001096700, G08G0001052000, G08G0001090000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004 Email ID: dean.research@mriu.edu.in Mb: 9560299045 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sonal Bhugra Address of Applicant :Civil Engineering, FET,MRIIRS -----</p> <p>2)Arko Bagchi Address of Applicant :Computer Science Engineering, FET, MRIIRS -----</p> <p>3)Dr. Jyoti Verma Address of Applicant :Electronics Communication Engineering, FET, MRIIRS -----</p> <p>4)Dr. Arvind Dalal Address of Applicant :Business Administration ,MRIIRS -----</p>
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(57) Abstract :

The present invention relates to a central traffic control system (100) comprising: a monitoring unit (102), wherein the monitoring unit (102) comprises: cameras (108a-108n) to capture traffic condition data associated with a roadway, wherein the traffic condition data is selected from one of, images of a real-time traffic condition, videos of the real-time traffic condition, or a combination thereof; and queue detection units (110a-110n) comprises sensors (112a-112n) to sense the traffic condition data associated with the roadway. The system (100) further comprising: a control unit (114) connected to the monitoring unit (102) through a communication network (106), wherein the control unit (114) is configured to: receive the traffic condition data from the cameras (108a-108n) and the queue detection units (110a-110n); analyze the received traffic condition data at every predefined time interval to generate an alert signal; and change an operation of the traffic lights based on the generated alert signal.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061914 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : HAND SANITIZATION APPARATUS

(51) International classification :A61F0009000000, A61B0090000000, B05B0012120000, G03F0007300000, A61B0034200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A hand sanitization apparatus (100) comprising: a container (102) to store a sanitization solution to be dispensed; a sensor (106) to sense a distance between hands of a user and a nozzle (108) of the hand sanitization apparatus (100); and a processing unit (126) connected to the sensor (106), wherein the processing unit (126) is configured to: receive the sensed distance from the sensor (106); compare the sensed distance with a pre-defined distance stored in a memory (128); and dispense the sanitization solution through the nozzle (108) onto the hands of the user, when the sensed distance is less than or equal to the pre-defined distance.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061915 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SOLAR TIME SYNCHRONIZATION SYSTEM

(51) International classification :G06F0001140000, G04G0005000000, G04G0007000000, G04G0009000000, G06F0013420000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A solar time synchronization system (100), comprising: a timing device (102) comprises: a Real Time Clock (RTC) unit (108) to provide a Local Standard Time Meridien in real time; and a control unit (114) configured to: determine a state of a first time run in a Serial Peripheral Interface Flash File System (SPIFFS); compare the determined state of the first time run with a pre-defined state; enable a communication unit (116) in an Access Point (AP) mode to connect a time synchronization application (120) to the timing device (102), when the determined state of the first-time run is equal to the pre-defined state; receive synchronized values of a longitude and a time zone of a present location; and calculate solar time information based on the Local Standard Time Meridien received from the RTC unit (108) and the received values of the longitude and the time zone of the present location.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061916 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : APPARATUS FOR AN ANTERIOR CRUCIATE LIGAMENT (ACL) RECONSTRUCTION PROCEDURE

(51) International classification :A61F0002080000, A61B0017170000, A61B0005000000, A61B0017160000, G06T0007730000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Physiotherapy, FAHS,MRIIRS -----

(57) Abstract :

An apparatus (100) for an Anterior Cruciate Ligament (ACL) reconstruction procedure comprising: a first tibial tunnel guide device (102) for creating a first tunnel (104) in a tibia (110) at a knee of a patient, wherein the first tibial tunnel guide device (102) comprises a first guiding member (116) and a first Anterior Cruciate Ligament (ACL) arm (118); a second tibial tunnel guide device (106) for creating a second tunnel (108) in the tibia (110) at the knee of the patient, wherein the second tibial tunnel guide device (106) comprises a second guiding member (122), and a second Anterior Cruciate Ligament (ACL) arm (124); and a rod (128) attached to a shoulder region of the first ACL arm (118) of the first tibial tunnel guide device (102) and a shoulder region of the second Anterior Cruciate Ligament (ACL) arm (122) of the second tibial tunnel guide device (106) for stabilization.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061917 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED AUTOMATIC DIAGNOSTIC SYSTEM

<p>(51) International classification :A61B0006030000, A61B0006000000, G06T0007000000, A61F0002300000, G16H0050200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004 Email ID: dean.research@mriu.edu.in Mb: 9560299045 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pradeep Kumar Address of Applicant :Physis,FET,MRIIRS -----</p> <p>2)Dr. Geeta Nijhawan Address of Applicant :Electronics Electrical Engineering,FET,MRIIRS -----</p> <p>3)Dr. Supriya P Panda Address of Applicant :Computer Science Engineering, FET, MRIIRS -----</p>
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(57) Abstract :

An artificial intelligence based automatic diagnostic system (100) comprises: an accessing module (204) configured to enable a user to login onto a diagnosis application (108); an uploading module (208) configured to enable the user to upload a Computed Tomography (CT) scan image of a patient onto an interface of the diagnosis application (108); an encryption module (210) configured to encrypt the uploaded Computed Tomography (CT) scan image with a unique diagnosis identification number and a key; a request receiving module (212) configured to receive the encrypted Computed Tomography (CT) scan image as an image diagnosis request; a decryption module (216) configured to decrypt the encrypted Computed Tomography (CT) scan image using the key; a pre-processing module (218) configured to pre-process the decrypted Computed Tomography (CT) scan image; and a prediction module (220) configured to analyze the pre-processed Computed Tomography (CT) scan image for predicting an output.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : AN IOT BASED SOLAR TRACKER SYSTEM

(51) International classification :H02S0020320000, F24S0030000000, F24S0050200000, F24S0030425000, H02S0020100000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
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(57) Abstract :
 The present invention relates to an IoT-based solar tracker system (100). The system (100) comprises a solar tracking unit (102), a data storage unit (116), an alert generating unit (118), and a display unit (120). The solar tracking unit (102) is configured to track solar energy. The solar tracking unit (102) comprises a plurality of solar panels, a plurality of sensors (106), one or more light detecting resistors (108), a motor (110), a control processing unit (112), and a power supply unit (114). The system (100) utilizes the maximum amount of solar energy as the plurality of solar panels (104) move in the direction of the sun. The system (100) tracks the sunlight and moves according to the position of the sun thereby resulting in maximum utilization of sunlight for the generated electricity. The system (100) also reduces the improper utilization of valuable resources like human effort, time, and cost.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : INTEGRATED ELECTRICITY GENERATION SYSTEM FOR VEHICLE

<p>(51) International classification :F01D0005300000, H02J0007140000, F03D0009250000, F03G0007080000, A61B0017000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Abhishek Sharma Address of Applicant :Department of Computer Science Engineering, Chandigarh University, National Highway 95, Chandigarh Ludhiana Highway, Mohali, Punjab 140413, India. --- ----- 2)Vivek Kumar Singh Address of Applicant :Department of Computer Science Engineering, Chandigarh University, National Highway 95, Chandigarh Ludhiana Highway, Mohali, Punjab 140413, India. --- ----- 3)Dr Sumedha Arora Address of Applicant :Faculty, Department of Computer Science Engineering, Chandigarh University, National Highway 95, Chandigarh Ludhiana Highway, Mohali, Punjab 140413, India. --- ----- 4)Harjeet Kaur Address of Applicant :Faculty, Department of Computer Science Engineering, Chandigarh University, National Highway 95, Chandigarh Ludhiana Highway, Mohali, Punjab 140413, India. --- -----</p>
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(57) Abstract :

An integrated electricity generation system includes, a worm gear 1 connected with a rear axle 4 to receive rotational motion, a worm wheel 2 connected with the gear 1 to translate rotational motion to a central shaft 10 and having a connecting slot 11, an alternator 8 arranged over a platform 7, having a rotor 9 and a magnetic locking arrangement 12 to engage/disengage the rotor 9 with the slot 11 to receives rotational motion from the shaft 10 and the alternator 8 generates alternating current, a hydraulic arrangement 16 connected with platform 7 to move the platform 7 for attachment/detachment of the arrangement 12 with the shaft 10 in case of RPM are less/more than limit, a hydraulic breaking arrangement 3 apply break over the rotor 9 to reduce/stop rotations, and a transformer connected with alternator 8 to supply lower voltage/current to batteries/components.

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : EOSIN-Y AND SULPHUR-CODOPED GRAPHITIC-CARBON NITRIDE COMPOSITE AND METHOD FOR SYNTHESIS THEREOF

<p>(51) International classification :B01J0035000000, B01J0027240000, A61K0009000000, B01J0035020000, C04B0035626000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Atul. P. Singh Address of Applicant :Department of Chemistry, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- 2)Pooja Singh Address of Applicant :Department of Chemistry and Environmental Science, Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. 273010, India ----- 3)Surabhi Chaubey Address of Applicant :Department of Chemistry and Environmental Science, Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. 273010, India. ----- 4)Chandani Singh Address of Applicant :Department of Chemistry and Environmental Science, Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. 273010, India. ----- 5)Satyam Singh Address of Applicant :Department of Chemistry and Environmental Science, Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. 273010, India. ----- 6)Sarvesh Kumar Gupta Address of Applicant :Department of Physics and Material Science, Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. 273010, India. ----- 7)Rajesh K. Yadav Address of Applicant :Department of Chemistry and Environmental Science, Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. 273010, India. -----</p>
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(57) Abstract :

The present invention relates to an Eosin-Y and Sulfur-co-doped graphitic-carbon nitride composite and method for synthesis of the same to produce a composite capable of regenerating NADH/NADPH and oxidizing sulfide to sulfoxide. A method for preparation of preparation of the composite involves the following steps: mixing thiourea and Eosin-Yellow thoroughly using a pestle and mortar to obtain a mixture, adding dimethylformamide, thionyl chloride and trimethylamine to the mixture and thoroughly mixing to obtain a solution followed by keeping the solution in an oven and drying overnight at 160oC to obtain a dried mixture and crushing the dried mixture using a pestle and mortar to obtain a fine powder followed by keeping the powder in an alumina crucible with a cover at 550oC in a muffle furnace for 3h with a ramping rate of 2-3oC per minute to obtain a composite.

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061994 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART DEPLOYABLE DUAL ANTENNA SYSTEM

(51) International classification :H01Q0001120000, H01Q0003080000, H01Q0003040000, H01Q0019130000, H01Q0019120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A smart deployable dual antenna system includes, a mounting bracket 1 supported by a frame 2, adapted to stably hold a first dish antenna 3 which receive radio waves and concentrate the waves on a feed horn 4, a servo motor coupled with the antenna 3 to rotate the antenna 3 horizontally to change direction of antenna, multiple sensors to detect rain and moisture level, a secondary dish antenna 6 fitted with the bracket 1 via a motorized rod 7 that moves the antenna 6 in rest and deployable position, the antenna 6 comprises, multiple flexible metallic triangular pieces which expands and fold back, the antenna 6 is having larger diameter than the antenna 3 in expanded/open state to converge signals on the horn 4 in bad weather to avoid signal loss and increase signal reception, a microcontroller configured to deploy the antenna 6 upon detection of bad weather conditions.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061995 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART VEHICLE PARKING DEVICE

(51) International classification :F16H0063340000, B62H0001020000, E04H0006060000, B62D0007150000, B62H0003100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

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(57) Abstract :

A smart vehicle parking device comprising at least two telescopically actuated bars 1 connected with a base plate 2 through a pair of spring 3 that aids in movement of the bars 1 individually from the plate 2 to a ground surface to park the vehicle, a supporting unit 4 fabricated on each of the bars 1, wherein a user applies pedal force on either of the supporting unit 4 to bring only one bar 1 to the surface for parking the vehicle in side stand mechanism and applies force on both the supporting unit 4 to achieve a double stand parking mechanism, and a slider rod 5 pre-positioned within a slot 6 crafted on one of the bars 1 that is pushed manually inside a groove 7 fabricated on another bar 1 to lock both the bars 1, for parking the vehicle in accordance to the double stand mechanism.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : EARTHQUAKE DETECTION AND RESCUE SYSTEM

<p>(51) International classification :G01V0001000000, B66B0005020000, E04H0009020000, G08B0021100000, G01V0001180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Baranwal Priyanshu Shambhu Prasad Address of Applicant :Department of Electrical Engineering, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- -----</p> <p>2)Sarthak Vasisth Address of Applicant :Department of Electrical Engineering, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- -----</p> <p>3)Garima Saini Address of Applicant :Department of Electrical Engineering, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India ----- -----</p> <p>4)Harpreet Kaur Channi Address of Applicant :Assistant Professor, Department of Electrical Engineering, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ----- -----</p>
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(57) Abstract :

An earthquake detection and rescue system, comprising a modem implanted over an earthquake prone area for detecting and alerting earthquake, wherein the modem comprises of a seismic sensor for measuring magnitude of earthquake by sensing ground vibrations generated over the area, a primary processing unit for receiving data related to magnitude of earthquake and determining earthquakes within the area, the signals of which are transmitted by a communication module, a notification module for alerting human in vicinity to the modem by means of sound and text based notifications, a secondary processing unit for actuating the notification module, plurality of computing units operated by users that comprises of a user interface on which an alert and location of the earthquake is received, a timer for counting time under which safe evacuation of the users is possible, and a navigation module for providing nearest safe zone to the user.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061997 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART WIRELESS POINTING DEVICE

(51) International classification :G06F0003035400, G06F0003038000, H04L0029060000, A61B0005080000, G06F0021830000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A smart wireless pointing device comprising, a body 1 having first and second portion 2, 3, a primary sensor that by detecting movement of body 1 and sends a signal to a paired microcontroller, a communication module aids in wirelessly pairing device with any computing unit 5, a secondary sensor 4 captures finger print pattern of a user and authenticate him/her to unlock/lock connected computing unit 5 and process generated signal received by primary sensor to navigate into computing unit 5 by moving body 1, a user interface installed within a user's computing unit that allows a user to register multiple new finger prints or replace existing finger print and also generates a security pin to allow user to get access of computing unit 5, a memory unit 6 to store data that is fetched from connected computing unit 5 via communication module.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : ENCAPSULATED ZINC BASED BIOFERTILIZER FORMULATION AND METHOD OF PREPARATION THEREOF

<p>(51) International classification :A61K0009000000, A61K0009500000, A61K0008270000, C05F0011080000, A61K0047020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India -----</p> <p>----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Nitu Rani Address of Applicant :Assistant Professor, University Institute of Agricultural Sciences, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. -----</p> <p>2)Rajinder Kaur Address of Applicant :Research Scholar, University Institute Biotechnology, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ---</p> <p>----- 3)Dr. Sukhminderjit Kaur Address of Applicant :Associate Professor, University Institute Biotechnology, Chandigarh University, National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab 140413, India. ---</p> <p>-----</p>
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(57) Abstract :

The present invention relates to an encapsulated zinc based biofertilizer formulation, including – i) an active cell suspension in range of 0.2 to 0.4% (w/v); ii) poultry waste mixture in range of 4 to 6% (w/v); (iii) zinc oxide solution in range of 0.08 to 0.2% (v/v); and iv) a mixture of excipients in range of 93.5 to 95.5% (v/v). A method for preparation of the formulation, comprising the steps: a) preparing cell suspension by isolating zinc solubilizing bacteria from rhizospheric soil and subculturing the bacteria in media supplemented with zinc oxide; b) obtaining cell-polymer suspension by mixing poultry waste with excipients and subsequently adding the cell suspension followed by stirring for 20-30 minutes; c) preparing microcapsules by extruding the suspension through syringe and conducting drop-wise gelation in cross-linking solution; and d) incubating microcapsules for 2-3 hours followed by washing and drying to obtain solidified microcapsules of the formulation.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111061999 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : HANDHELD MEASUREMENT APPARATUS

(51) International classification :B21D0039040000, G01B0003180000, F16M0011040000, A61F0002000000, F16H0025200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to handheld measurement apparatus comprising, a primary and secondary sleeves 4, 3 interconnected to each other to form a free space to accommodate a specimen that is to be measured, a pair of pins slotted between sleeves to provide sliding movement to primary sleeve 4 over the secondary sleeve 3, a handle 8 connected to primary sleeve 4 with the help of a lead screw mechanism, where upon rotating handle 8, the primary sleeves 4 slides over secondary sleeve 3 in order to slot the specimen between sleeves firmly, a sleeve scale 6 present over the lead screw mechanism, where number coinciding along with handle 8 after placing the specimen between sleeve denotes diameter of specimen with whole number, a thimble scale 7 inscribed over the handle 8, where number coinciding along with base line of sleeve scale 7 denotes decimal number of measured diameter.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062033 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INTERNET-OF-THINGS ENABLED FOREST FIRE DETECTING SYSTEM

(51) International classification :H04L0029080000, G08B0017000000, G08B0017120000, G08B0017060000, G01D0021020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention discloses a forest fire detecting system 100 for detecting fire in a forest with integration of IoT and AI technology, said system 100 comprising: a plurality of IOT device 101, a buzzer 102 installed at forest department, and an imaging tool 103 based on satellite. The plurality of IOT device 101 further comprising a processor 104; a computer readable medium 105; a display 106; a user interface 107; an external device 108; a communication network 109; a plurality of sensors 201, and a memory communicatively coupled to the processor 104. The memory stores processor instructions, which, on execution, causes the processor to detect fire in a forest based on temperature and CO2 level identified through said plurality of sensors 201. It should be noted that the buzzer alarm is activated when fire is detected through at least one of the pluralities of said IOT device 101.

No. of Pages : 26 No. of Claims : 7

(54) Title of the invention : APPLICATION OF PRINCIPAL COMPONENT ANALYSIS AND MULTIVARIATE SIGNAL PROCESSING TO MULTICHANNEL EEG

<p>(51) International classification :A61B0005000000, A61B0005047600, A61B0005040000, G06K0009000000, G05B0019418000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Javed Khan Bhutto Address of Applicant :Associate Professor Department of Electrical Engineering, College of Engineering, King Khalid University, Abha, KSA ----- -----</p> <p>2)Sunil Kumar Gupta 3)Puranik Parag Vinod 4)Mohammed Hussain Daghasi 5)Dr. Abdulwasa Bakr Barnawi 6)Surur Mohammed Alsharif 7)Abdulrahman Hassan Ali Ghazwani 8)Mohammed Yahya J Ghazwani 9)Mohammed Saeed S Alshahri Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Surur Mohammed Alsharif Address of Applicant :Surur Mohammed Alsharif Trainer, Department of Electronics, Abha Technical college, Abha, KSA ----- 2)Puranik Parag Vinod Address of Applicant :Puranik Parag Vinod Research Scholar Department of Electrical &Electronics Engineering Poonima University, Jaipur (India) 303905 -- -----</p> <p>3)Dr. Abdulwasa Bakr Barnawi Address of Applicant :Dr. Abdulwasa Bakr Barnawi Assistant Professor Department of Electrical Engineering, College of Engineering, King Khalid University, Abha, Kingdom of Saudi Arabia ----- 4)Sunil Kumar Gupta Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura, Jaipur ----- 5)Mohammed Hussain Daghasi Address of Applicant :Mohammed Hussain Daghasi Trainer, Department of Electronics, Abha Technical college, Abha, KSA ----- 6)Mohammed Saeed S Alshahri Address of Applicant :Mohammed Saeed S Alshahri Trainer, Department of Electronics, Abha Technical college, Abha, KSA ----- 7)Abdulrahman Hassan Ali Ghazwani Address of Applicant :Abdulrahman Hassan Ali Ghazwani Trainer, Department of Electronics, Abha Technical college, Abha, KSA ----- 8)Mohammed Yahya J Ghazwani Address of Applicant :Mohammed Yahya J Ghazwani Trainer, Department of Electronics, Abha Technical college, Abha, KSA ----- 9)Dr. Javed Khan Bhutto Address of Applicant :Associate Professor Department of Electrical Engineering, College of Engineering, King Khalid University, Abha, KSA -----</p>
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(57) Abstract :

Neuroscience (brain science) is changing at a very rapid pace. New brain-imaging technologies are allowing increasingly huge data sets, but analysing the resulting Big Data is one of the major struggles in modern neuroscience which is faced by all neuroscientists and neurological doctors. The increases in the number of simultaneously recorded data channels allows new discoveries about spatial and temporal structure in the brain, but also presents new challenges for data analyses. Since the EEG data are stored in matrices, algorithms developed in linear algebra are extremely useful. The paper discusses some matrix-based data analysis methods in neural time series data, with a focus on multivariate dimensionality reduction and source-separation methods. This includes covariance matrices, principal components analysis (PCA), generalized eigen decomposition and independent components analysis (ICA).

No. of Pages : 20 No. of Claims : 6

(54) Title of the invention : A PHOTON-SINTERABLE AND OXIDATION RESISTANT COPPER PASTE FOR MAKING CONDUCTING LINES AND PROCESS THEREOF

<p>(51) International classification :H05K0003120000, H05K0001090000, H01B0001220000, H05K0001160000, C09D0011520000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :Dean, Research & Development, Room Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur 208016, Uttar Pradesh, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MOHAPATRA, Y. N. Address of Applicant :Department of Physics, Samtel Centre for Display Technologies & National Centre for Flexible Electronics (FlexE Centre), Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India ----- 2)Ashish Address of Applicant :Samtel Centre for Display Technologies & National Centre for Flexible Electronics (FlexE Centre), Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India ----- 3)PAL, Krishna Address of Applicant :National Centre for Flexible Electronics (FlexE Centre), Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India ----- 4)KUMAR, Piyush Address of Applicant :National Centre for Flexible Electronics (FlexE Centre), Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India -----</p>
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(57) Abstract :

Provided herein is a conductive copper paste composition preparation for the application of conductive lines in the membrane switches, RFID and Flexible PCB etc. The copper paste composition consists of conductive metal powder, polymer, binder, organic solvent and co-solvent and other additives to enable for aforementioned applications. It is an inexpensive way of laying wire/conductive lines using screen printer on suitable substrates preferable on flexible but not limited to like polyimide, PET, paper and other flexible substrates. Printed lines were rendered conducting lines using photon sintering at low processing temperature that makes it suitable for flexible substrates. Thus, in the present invention, oxidation resistant conductive copper paste formulation and screen printed lines in combination with photon sintering gives a novel way for wide range of low cost printed electronics applications on flexible substrates.

No. of Pages : 30 No. of Claims : 12

(54) Title of the invention : HAND-HELD PRODUCT VENDING MACHINE

<p>(51) International classification :G01G0019414000, G07F0011640000, G07F0011420000, B65G0047500000, G07F0011160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Manpreet Kaur Address of Applicant :Professor, Department of Electrical and Instrumentation Engineering, SLIET, Longowal, Punjab ----- ----- 2)Dr. Birmohan Singh 3)Sachin Minocha 4)Bishal Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Manpreet Kaur Address of Applicant :Professor, Department of Electrical and Instrumentation Engineering, SLIET, Longowal, Punjab ----- ----- 2)Dr. Birmohan Singh Address of Applicant :Professor, Department of Computer Science and Engineering, SLIET, Longowal, Punjab ----- ----- 3)Sachin Minocha Address of Applicant :J-901, Express Park View 2, Chi V, Greater Noida, Uttar Pradesh 201310 ----- ----- 4)Bishal Kumar Address of Applicant :At post Rajoun, Banka, Bihar (813107) ---- -----</p>
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(57) Abstract :
A hand-held product vending machine (100) comprising a conveyer belt (102) configured to load and/or unload a product/material; a plurality of scoops (104a-104n) attached to the conveyer belt (102), wherein the plurality of scoops (104a-104n) is configured to hold the product/material; a weighing scale (106) configured to measure the weight of the product/material unloaded into a carry bag; a pair of hooks (108a-108b) attached to the weighing scale (106), wherein the pair of hooks (108a-108b) are configured to receive the carry bag; a user interface (110) coupled to the weighing scale (106), wherein the user interface (110) is configured to enable a user to enter a weight of the product/material required; a controller (112) connected to the weighing scale (106) and the user interface (110), the controller (112) is configured to control the operation of the product vending machine (100).

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062119 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INFECTION DETECTION SYSTEM AND METHOD THEREOF

<p>(51) International classification :G06K0009620000, G06T0007000000, G06K0009000000, G06K0009460000, G06F0016510000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Noida Institute of Engineering Technology, Greater Noida Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Areas. Greater Noida - 201306 Email-id: evp@niet.co.in Mb: 9958698090 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr.Raman Batra Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----</p> <p>2)Dr. Vinod Mansiram Kapse Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----</p> <p>3)Ms. Kanika Jindal Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----</p> <p>4)Ms. Manali Gupta Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----</p> <p>5)Ms. Roshan Jameel Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----</p>
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(57) Abstract :

An infection detection system (100) for detecting a coronavirus infection, the system (100) comprising: a processor (110) located on an application server (102); a storage medium (112) comprising programming instructions executable by the processor (110), wherein the storage medium (112) comprises: an image receiving module (114) configured to receive medical images from a user device (104); an image processing module (116) configured to process the received medical images such that the medical images are de-noised and image features of the medical images are improved; a feature extraction module (118) configured to extract the image features based on a training image set; a classification module (120) configured to classify the received medical images based on the extracted image features using a machine learning algorithm; and an infection detection module (122) configured to detect a level of infection by correlating the classified image features with a pre-stored dataset of infection levels.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062150 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FABRICATION AND MACHINING SOLUTION FOR METAL MATRIX COMPOSITE AL 7010 WITH 10% SIC MATERIAL

(51) International classification :B23H0007020000, B23H0007200000, B23H0001000000, B23H0001040000, B23H0007100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses a metal matrix based reinforced composite comprising at least 70 wt% of Aluminium reinforced with at least 10 wt% of silicon particles. The composite is machined using Wire electrical discharge machining (WEDM). The composite comprising at least 6.2 wt% of Zn, 2.3 wt% of Mg, 1.75 wt% of Cu, 0.13 wt% of Zr, 0.15 wt% of Fe, 0.12 wt% of Si, 0.1 wt% of Mn, and 0.05 wt% of Ti. The dielectric for the machining is water. The electrode for the machining is a round molybdenum wire with a diameter of 0.18 mm. The average cutting rate of the composite is 6.22 mm²/sec. The surface roughness of the composite is 1.79 μ m.

No. of Pages : 23 No. of Claims : 7

(54) Title of the invention : NFC AND BLOCKCHAIN-BASED ANTI-TAMPERING DEVICE AND SOURCE TRACKING SYSTEM

(51) International classification :H04L0029060000, G06Q0010080000, G06F0021620000, G06Q0010060000, G06K0019070000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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Name of Applicant : NA
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3)Ms. Deepali Dev
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4)Ms. Shweta Kaushik
 Address of Applicant :Assistant Professor, Department of Information Technology (IT), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----

(57) Abstract :
 The present disclosure discloses an anti-tampering system (100) for securing products in supply chain. The system (100) includes a plurality of the products having NFC tag-based labels associated therewith. The system (100) includes a NFC reader based authentication device (102); a blockchain-based secure authentication network (104); a microcontroller (106) comprising a non-transitory memory (106A) coupled with one or more processors (106B) configured to receive the NFC tag based labelled product; read encrypted data from each of the tags of the products; retrieve a plurality of attributes from the encrypted data; verify the product using information stored in the authentication network (104); and store location coordinates of site of authentication of the product.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062203 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DIGITAL LOCK OF ENERGY SYSTEM

<p>(51) International classification :H04L0009320000, A61M0015060000, A61K0033060000, G01R0035040000, H04L0029060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Manish Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p> <p>2)Mr. Rajeev Kumar Pandey Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p> <p>3)Mr. Mudit Saxena Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering (ECE), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p>
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(57) Abstract :

In an aspect of a present disclosure, a temper proof system (1000) is disclosed. The system (1000) includes a temper proof energy meter device (100). The device (100) includes a case accompanied with a laser sensing element (102) defining a laser path all around the case, locks the case; a microcontroller (104) comprising a non-transitory storage unit (104A) coupled with one or more processors (104B) comprising one or more subunits. The subunits are configured to provide security of internal data of the device (200).

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062225 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART VEHICLE TRACKING SYSTEM (SVTS)- OPTIMIZATION AND ENHANCING TRANSPORT CONNECTIVITY TO REDUCE THE WAITING COST USING INTELLIGENT SENSOR TECHNOLOGIES

<p>(51) International classification :G08G0001000000, G08G0001127000, G08B0005360000, B60R0025102000, G06T0007136000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Asmita Yadav Address of Applicant :Associate Professor, Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 2)Mr. Tarun Kumar Sharma Address of Applicant :Assistant Professor (Senior Scale), Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 3)Mr. Dev Rajput Address of Applicant :Student, Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 4)Mr. Daksh Rajput Address of Applicant :Student, Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India ----- 5)Mr. Rishabh Kumar Sharma Address of Applicant :Student, Department of Computer Applications (MCA), ABES Engineering College, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India -----</p>
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(57) Abstract :

The present disclosure discloses a device (100) for tracking pre-booked vehicles. The device (100) includes a sensing unit (102) comprising a plurality of sensors to determine position of the vehicle and a passenger; a microcontroller (104) comprising a non-transitory memory (104A) coupled with one or more processors (104B) configured to receive a boarding request from the passenger; notify the passenger of arrival of the vehicle before boarding thereby; notify the passenger of the vehicle in vicinity of the passenger; and notify other passengers.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062240 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM FOR IOT BASED HOME AUTOMATION

<p>(51) International classification :H04L0012280000, G08B0013196000, G08B0003100000, H04L0029080000, H04W0004800000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. NIRVIKAR SHARAN KATTIYAR Address of Applicant :PRABHAT ENGINEERING COLLEGE N H – 2, KALPI ROAD, RANIA, NEAR BARA TOLL TAX KANPUR (D) – 209304 -----</p> <p>2)DR. GYANENDRA KUMAR GUPTA 3)KAPIL KUMAR PANDEY 4)DR ABHISHEK PRABHAKAR 5)SHEKHAR VERMA Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. NIRVIKAR SHARAN KATTIYAR Address of Applicant :PRABHAT ENGINEERING COLLEGE N H – 2, KALPI ROAD, RANIA, NEAR BARA TOLL TAX KANPUR (D) – 209304 -----</p> <p>2)DR. GYANENDRA KUMAR GUPTA Address of Applicant :B. N. COLLEGE OF ENGINEERING AND TECHNOLOGY, NH-24, SITAPUR ROAD, BAKSHI KA TALAB, LUCKNOW PIN-226201 U.P. -----</p> <p>3)KAPIL KUMAR PANDEY Address of Applicant :DR AMBEDKAR INSTITUTE OF TECHNOLOGY FOR HANDICAPPED. AWADH PURI KANPUR -208024 -----</p> <p>4)DR ABHISHEK PRABHAKAR Address of Applicant :DR AMBEDKAR INSTITUTE OF TECHNOLOGY FOR HANDICAPPED. AWADH PURI KANPUR -208024 -----</p> <p>5)SHEKHAR VERMA Address of Applicant :UIET CSJM UNIVERSITY KANPUR UTTAR PRADESH -----</p>
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(57) Abstract :

The proposed system relates to an IoT based home automation system to implement security. The system includes a doorbell, a smart TV, an illumination source, an IoT based image sensor and a server. The server is utilized to (a) detect doorbell is pressed (b) transmit a first signal, which is received by the TV to pause presently displayed content for a predetermined time (c) transmit a second signal, which is received by the illumination source to increase a brightness level at an entrance gate, and (d) transmit a third signal, which is received by the IoT based image sensor to change direction towards the entrance gate.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062245 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ENHANCED RAILWAY TRACK CRACK DETECTION SYSTEM

(51) International classification :G08B0021220000, G06T0007900000, G01S0013910000, A61B0005020500, G06Q0010080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

The present disclosure discloses an automated system (100) for detecting cracks in railway tracks. The system (100) includes a sensing unit (102), comprising a plurality of sensors to determine cracks in the railway tracks and location coordinates thereof; a microcontroller (104) comprising a non-transitory storage unit (104A) coupled with one or more of processors (104B), operable to execute one or more modules. The modules comprising an input module (104B1), which when coupled with one or more processors (104B), receives an indication of the crack in the track from the sensing unit (102), along with location coordinates thereof; an analysis module (104B2), which when coupled with one or more processors (104B), determines if there is an echo in the crack to determine the presence of crack in the track; and an alert module (104B3), which when coupled with one or more processors, sends an alert to railway authorities.

No. of Pages : 21 No. of Claims : 5

(54) Title of the invention : OIL HOSE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:C08K0005400000, C08L0053000000, C08L0009020000, B32B0001080000, C08K0005000000</p> <p>:2019-118585</p> <p>:26/06/2019</p> <p>:-----</p> <p>:PCT/JP2020/021098 :28/05/2020</p> <p>:WO 2020/261867</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant : 1)SUMITOMO RIKO COMPANY LIMITED Address of Applicant :1, Higashi 3-chome, Komaki-shi, Aichi 4858550 -----</p> <p>2)SUMITOMO RIKO HOSETEX, LTD. Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KANBE Shinobu Address of Applicant :c/o Sumitomo Riko Company Limited, 1, Higashi 3-chome, Komaki-shi, Aichi 4858550 -----</p> <p>2)NOZUE Ayami Address of Applicant :c/o Sumitomo Riko Company Limited, 1, Higashi 3-chome, Komaki-shi, Aichi 4858550 -----</p> <p>3)KAWAI Koichiro Address of Applicant :c/o Sumitomo Riko Hosetex, Ltd, 1 Toyosaka-cho, Ayabe-shi, Kyoto 6230177 -----</p> <p>4)WAKANO Takayuki Address of Applicant :c/o Sumitomo Riko Hosetex, Ltd, 1 Toyosaka-cho, Ayabe-shi, Kyoto 6230177 -----</p>
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(57) Abstract :

This oil hose is provided with an innermost layer 1 comprising a rubber composition containing components (A)-(E), wherein contained amounts of components (B), (C), (D), and (E) with respect to 100 parts by weight of component (A) are 4-15 parts by weight, 0.5-3 parts by weight, 1-15 parts by weight, and 0.25-2 parts by weight, respectively, and the ratio of components (B) and (C) is (B)/(C)=4/1.5 to 30/1.5 in weight ratio. Accordingly, excellent characteristics required for an oil hose such as oil resistance, cold resistance, and heat resistance are obtained, and a high resistance with respect to an oil having ZnDTP added thereto can be exhibited.

(A) An acrylonitrile-butadiene rubber in which the amount of acrylonitrile is 26-38 wt%. (B) Zinc oxide. (C) At least one selected from the group consisting of tetramethyl thiuram disulfide, tetrabutyl thiuram disulfide, and dipentamethylene thiuram tetrasulfide. (D) An ether ester-based plasticizing agent. (E) Sulfur.

No. of Pages : 35 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117056423 A

(19) INDIA

(22) Date of filing of Application :06/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AIR-CONDITIONING SYSTEM

<p>(51) International classification :F24F0011300000, B60H0001000000, F24F0110120000, F24F0011540000, F24F0005000000</p> <p>(31) Priority Document No :2019-102256</p> <p>(32) Priority Date :31/05/2019</p> <p>(33) Name of priority country :-----</p> <p>(86) International Application No Filing Date :PCT/JP2020/019656 :18/05/2020</p> <p>(87) International Publication No :WO 2020/241358</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DAIKIN INDUSTRIES, LTD. Address of Applicant :Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)OKAMOTO Yasunori Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 -----</p> <p>2)FUJITA Naotoshi Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 -----</p> <p>3)TATSUMI Kouji Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 -----</p> <p>4)KAWAGISHI Masaaki Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 -----</p> <p>5)UMASE Shinya Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 -----</p>
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(57) Abstract :

The objective of the present disclosure is to perform optimal coordinated control of an outdoor-air treatment device and an air-conditioning device. An air-conditioning system (100) is provided with an outdoor-air treatment device (10) for adjusting the temperature and the humidity of outdoor air that has been taken in and supplying air to subject spaces (SP1, SP2), an air-conditioning device (20) for adjusting the temperature of the air in the subject spaces (SP1, SP2), and a control unit (30). When one of the outdoor-air treatment device (10) and the air-conditioning device (20) is in a non-temperature-adjusting state of not adjusting the temperature of the air, the control unit (30) changes the air-conditioning capacity of the other of the outdoor-air treatment device (10) and the air-conditioning device (20) as compared to when the outdoor-air treatment device (10) and the air-conditioning device (20) are in a temperature-adjusting state of adjusting the temperature of the air.

No. of Pages : 78 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117056424 A

(19) INDIA

(22) Date of filing of Application :06/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AIR CONDITIONING SYSTEM

<p>(51) International classification :F24F0003140000, F24F0011300000, F24F0011640000, G16H0020400000, F24F0110220000</p> <p>(31) Priority Document No :2019-118856</p> <p>(32) Priority Date :26/06/2019</p> <p>(33) Name of priority country :-</p> <p>(86) International Application No :PCT/JP2020/022739 Filing Date :09/06/2020</p> <p>(87) International Publication No :WO 2020/261982</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DAIKIN INDUSTRIES, LTD. Address of Applicant :Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)OKAMOTO Yasunori Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p> <p>2)FUJITA Naotoshi Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p> <p>3)TATSUMI Kouji Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p> <p>4)KAWAGISHI Masaaki Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p> <p>5)UMASE Shinya Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p>
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(57) Abstract :

When an outside-air treatment device (10) performs a heating/humidifying operation and an air conditioning device (20) performs a cooling operation, a control device (30) adjusts at least one from among the air supply temperature, the air supply flow rate, and the water supply flow rate of the outside-air treatment device (10), and a cooling temperature that is a temperature of an air heat exchanger (22a) of the air conditioning device (20). The control device (30) adjusts the air supply temperature and the cooling temperature on the basis of dehumidification information, operation information, temperature information, and humidity information. The operation information is information pertaining to the operation state of the air conditioning device (20).

No. of Pages : 97 No. of Claims : 12

(54) Title of the invention : ELECTRODE PLATE, ELECTROCHEMICAL APPARATUS, AND APPARATUS THEREOF

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H01M0004130000, H01M0004040000, H01M0004660000, H01M0010052500, H01M0004620000</p> <p>:201910580214.3</p> <p>:28/06/2019</p> <p>:-----</p> <p>:PCT/CN2020/072145 :15/01/2020</p> <p>:WO 2020/258860</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)LI, Wei Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>2)LI, Jing Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>3)XUE, Qingrui Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>4)ZHANG, Yang Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>5)ZHANG, Zige Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>6)WANG, Pengxiang Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>7)LU, Yang Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p>
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(57) Abstract :

The present application relates to an electrode sheet, an electrochemical device and a device thereof. The electrode sheet of the present application comprises a current collector, an electrode active material layer arranged on at least one surface of the current collector, and an electrical connection member electrically connected to the current collector. Wherein the electrode active material layer is disposed in a body portion of the current collector, and this region is called a diaphragm region, the electrical connection member and the current collector are welded and connected at the edge of the current collector, this welding region is called a transfer welding region, a transition region, uncoated with the electrode active material layer, of the current collector between the diaphragm region and the transfer welding region is called an extension region, the current collector is a composite current collector, and the electrode sheet further comprises an internal short-circuit prevention protection layer, the internal short-circuit prevention protection layer is an organic insulating layer and covers the electrical connection member at the transfer welding region and at least a part of the extension region.

No. of Pages : 86 No. of Claims : 16

(54) Title of the invention : INTERNET OF THINGS (IOT) ENABLED HEALTH CARE MANAGEMENT SYSTEM

<p>(51) International classification :A61B0005000000, H04L0029080000, G16H0050300000, A61B0005024000, G16H0050200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. MOHIT GANGWAR (PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY) Address of Applicant :INSTITUTE OF ENGINEERING AND TECHNOLOGY, DR. RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA224001, UP, INDIA. -----</p> <p>2)MR. SATYARTH TIWARI (ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING)</p> <p>3)DR. MUKESH KUMAR VERMA (ASSISTANT PROFESSOR)</p> <p>4)DR. VINODINI VERMA (ASSISTANT PROFESSOR)</p> <p>5)DR. TARUN SINGH GANGWAR (ASSOCIATE PROFESSOR)</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. MOHIT GANGWAR (PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY) Address of Applicant :INSTITUTE OF ENGINEERING AND TECHNOLOGY, DR. RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA224001, UP, INDIA. -----</p> <p>2)MR. SATYARTH TIWARI (ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING) Address of Applicant :BHABHA UNIVERSITY BHOPAL-462026, MP, INDIA. -----</p> <p>3)DR. MUKESH KUMAR VERMA (ASSISTANT PROFESSOR) Address of Applicant :DR. RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA-224001, UP, INDIA. -----</p> <p>4)DR. VINODINI VERMA (ASSISTANT PROFESSOR) Address of Applicant :LPCPS LUCKNOW-226001, UP, INDIA. -----</p> <p>5)DR. TARUN SINGH GANGWAR (ASSOCIATE PROFESSOR) Address of Applicant :INSTITUTE OF ENGINEERING AND TECHNOLOGY, DR. RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA-224001, UP, INDIA. -----</p>
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(57) Abstract :

In medical diagnosis and therapy, the Internet of Things (IoT) and Machine Learning (ML) concepts are widely used to monitor a patient's condition. The IoT has been utilised to construct systems that tell the patient's peers in the event of an irregularity by exploiting the capabilities of a wearable sensor system with sensors attached to it. Models that have been taught to spot any anomalies in the patient's condition have been utilised to help in medical diagnosis. The framework is designed to maintain track of the patients' health using a pulse oximeter, temperature sensor, and other sensors. IoT devices acquire the required data, which is then saved on the cloud. Medical data is analysed, categorised, and communicated between consumers and healthcare experts via the Internet of Things. The data will be stored in the cloud IoT with a device collecting data from various sensors used in patient monitoring, then transferred to the hospital and stored in the hospital database using Artificial Intelligence (AI) and machine learning (ML) based algorithms to continuously evaluate the data, such as: A technique based on a classification approach is used to categorise people as infected or uninfected. To categorise the user into infected or uninfected groups, we utilise the fuzzy k-nearest neighbour approach, and the similarity coefficient to discriminate based on the patient's symptoms. Patients can get individualised care through wearable gadgets like fitness bands and other wirelessly connected equipment like blood pressure and heart rate monitoring cuffs, glucometers, and so on if something goes wrong straight immediately. Calorie counts, exercise, appointments, blood pressure variations, and a number of other things may all be programmed on these gadgets. People's lives have been revolutionised by the Internet of Things, notably the lives of elderly patients, who can now follow their health in real time. The impact on single parents and their families is significant. An alarm system delivers information to family members, physicians, paramedics, and other worried health providers if a person's typical behaviour is disturbed or altered.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : AN AUGMENTED REALITY ENABLED HOME AUTOMATION SYSTEM BASED ON A LI-FI LINKED DEVICES SWITCHING ASSEMBLY

<p>(51) International classification :H04B0010116000, G06T0019000000, H04L0012280000, G05B0015020000, H02J0007350000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. (Dr.) Shakti Kumar Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102 - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. (Dr.) Shakti Kumar Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102. -----</p> <p>2)Dr. Shiraz Khurana Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) – 132102. -----</p> <p>3)Dr. Amar Singh Address of Applicant :Vill. Taunsa, Tehsil Balachaur Distt. SBS Nagar, Punjab -----</p> <p>4)Dr. Sunil Dhull Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102 - -----</p> <p>5)Dr. Sukhbir Singh Walia Address of Applicant :Director IK Gujral Punjab Technical University, Kapurthala, Punjab. -----</p> <p>6)Dr. Monika Gambhir Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102 - -----</p> <p>7)Dr. Sakshi Arora Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102 - -----</p> <p>8)Dr. Anju Bhandari Gandhi Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102 - -----</p>
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(57) Abstract :

The present invention discloses an augmented reality enabled home/office automation system based on a light fidelity (Li-Fi) linked device switching assembly. The assembly includes, but is not limited to, an internet connected web server for connecting an augmented reality based ON/OFF switching panel and one or more Li-Fi transmission units through an ethernet shield like or wireless based web server; one or more Li-Fi receiver unit(s) connected with the Li-Fi transmission unit for activating one or more relays through a receiver end control system. Further, the augmented reality enabled home/office automation system based on a light fidelity (Li-Fi) linked device switching assembly is further comprised of one or more Li-Fi transmission unit(s) connected with one or more Li-Fi receiver(s) unit for activating one or more relays for controlling devices for activating a plurality of appliances.

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : A SYSTEM BASED ON DEEP LEARNING FOR ANALYZING DELAYED ENHANCEMENT MAGNETIC RESONANCE IMAGING TO IDENTIFY COVID 19 AND METHOD THEREOF

<p>(51) International classification :G01V0008100000, G01C0019000000, H04N0019587000, G06T0001600000, G06T0007330000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Deepak Dudeja Address of Applicant :Registrar And Professor, Computer Science & Engineering, Geeta Engineering College, Panipat Village Naultha, Gohana Road, Panipat-132145 ----- ---</p> <p>2)Syam Machinathu Parambil Gangadharan 3)Dr. Vishal Srivastava 4)Umesh Gupta 5)Dr. Awanish Kumar Singh 6)Dr. Vani Agrawal 7)Dr. Aswini Kumar Mohanty 8)Dr Biplab Kumar Das 9)Dr. Jitesh P. Tripathi 10)Rachna Behl Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Deepak Dudeja Address of Applicant :Registrar And Professor, Computer Science & Engineering, Geeta Engineering College, Panipat Village Naultha, Gohana Road, Panipat-132145 ----- ---</p> <p>2)Syam Machinathu Parambil Gangadharan Address of Applicant :Sr Big Data Engineer, General Mills, 1 General Mills Blvd, Golden Valley, Minnesota 55426 United States of America -----</p> <p>3)Dr. Vishal Srivastava Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, School of Computer Science & Engineering, Bennett University, Greater Noida, India. 6/411 Gopinathpuram Shuklaganj Unnao, India-20986 -----</p> <p>4)Umesh Gupta Address of Applicant :Assistant Professor, School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India. C-13, Leiah Apartment, Vasundhara enclave Near Dharmshila Hospital, East Delhi. 110096 -----</p> <p>5)Dr. Awanish Kumar Singh Address of Applicant :Assistant Professor & Head of the Department, Botany, S.G.N.Government P.G.College, Muhammadabad Gohna, Mau 276403, Uttar Pradesh ----- -----</p> <p>6)Dr. Vani Agrawal Address of Applicant :Associate Professor, Department of computer science and applications, ITM University, Gwalior, -----</p> <p>7)Dr. Aswini Kumar Mohanty Address of Applicant :Principal, Department of Computer Science and Engineering, The Techno School, 361-A, Patrapada, Bhubaneswar, Odisha 751019 -----</p> <p>8)Dr Biplab Kumar Das Address of Applicant :Assistant Professor, Head of the zoology department, Jengraimukh College, Majuli, Assam-785105 -----</p> <p>9)Dr. Jitesh P. Tripathi Address of Applicant :Assistant Professor, P. G. Department of Mathematics, R. N. College, Hajipur (B. R. A. Bihar University, Muzaffarpur) (Vaishali)-844101 -----</p> <p>10)Rachna Behl Address of Applicant :Associate Professor, Department Of CSE, manav Rachna International Institute Of Research And Studies -----</p>
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(57) Abstract :

The present invention discloses a system based on deep learning for analyzing delayed enhancement magnetic resonance imaging to identify COVID 19 and method thereof. The method and system include, but not limited to, a processing unit adapted to process the data based on deep learning data modelling in the magnetic resonance imaging associated with the digital image scanning system for diagnosis COVID 19 with the spatial resolution that each frame is deposited is 256 256, and being creating that level and vertical resolution respectively are 256 pixels (pixel), the read/write address that the read/write address of each image element, which is controlled by processing unit and forms circuit and finishes; And the data that will be stored in memory are input to a real-time microcontroller, it is characterized in that: analyze and compare by the Multi-source Information Fusion analytical system by using the real-time microcontroller to deliver the D/A changer then, digital signal is become analogue signal output.

No. of Pages : 24 No. of Claims : 8

(54) Title of the invention : WEARABLE SENSORS BASED HEALTH MONITORING AND CONTROLLING SYSTEM USING CLOUD

<p>(51) International classification :G08B0021040000, G08B0025010000, G16H0050300000, A61B0005000000, A61B0005040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mrs. Arti Sharma Address of Applicant :Assistant Professor, Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India -----</p> <p>2)Mr. Saurabh Sharma 3)Dr. Aanjey Mani Tripathi 4)Dr. Sanjay Kumar Yadav 5)Dr. Ajay Agarwal 6)Mr. Naveen Kumar 7)Dr. Archana Sharma 8)Mr. Harsh Khatter Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mrs. Arti Sharma Address of Applicant :Assistant Professor, Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India -----</p> <p>2)Mr. Saurabh Sharma Address of Applicant :Assistant Professor, Department of Information Technology, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India -----</p> <p>3)Dr. Aanjey Mani Tripathi Address of Applicant :Associate Professor, School of Computer Science and Engineering, Galgotias University, Greater Noida, India -----</p> <p>4)Dr. Ajay Agarwal Address of Applicant :Professor, Department of Information Technology, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India. -----</p> <p>5)Dr. Sanjay Kumar Yadav Address of Applicant :Associate professor, Department of computer science and information technology, Sam Higgin bottom university of agriculture, technology and sciences, Allahabad, Uttar Pradesh, India -----</p> <p>6)Mr. Naveen Kumar Address of Applicant :Research Scholar, Department of computer science and information technology, Sam Higgin Bottom University of Agriculture, Technology and Sciences, Allahabad, Uttar Pradesh, India -----</p> <p>7)Dr. Archana Sharma Address of Applicant :Assistant Professor, Department of Applied Sciences, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India -----</p> <p>8)Mr. Harsh Khatter Address of Applicant :Office Address: Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, India, 201206. Communication Address: 54, Narayan Sadan, Anandi Pura, Modinagar, Ghaziabad, India, 201204 - -----</p>
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(57) Abstract :

The present invention is a system and method to monitor the health of the user with the help of sensors. Most of the people face the sudden changes in their bodies and in uneasy conditions due to the absence of any other person with the patient, some mis happenings had happened. In view of the such situations, the invented system will be very helpful. With the help of few sensors, all the human body activities can be easily monitored. In case of any abnormal activity or some odd situations, the user and its relatives can get the notifications. The main approach used behind the system is fuzzy inferencing and the data is stored on the cloud.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211000091 A

(19) INDIA

(22) Date of filing of Application :02/01/2022

(43) Publication Date : 07/01/2022

(54) Title of the invention : ONE DIMENSIONAL STRUCTURE OF MNO₂ DEVELOPED THROUGH A PROTONATED CONTROLLED HYDROTHERMALLY ASSISTED REDOX REACTION

(51) International classification :C01B0032182000, B01J0037100000, C02F0101200000, C02F0101000000, C07K0005113000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Discloses herein a process of synthesis one dimensional structure of MnO₂ developed through a protonated controlled hydrothermally assisted redox reaction comprises Mixing 3:2 M of NaNO₂ and KMnO₄, respectively are mixed in 35 ml distilled water and strongly agitated magnetically; and the solution is kept for stirring for 10 min for homogenous mixing; Adding slowly 0.3 M H₂SO₄ solution of 3 ml quantity in droplet form at irregular intervals; Halting the droppings halted at every time for a while whenever the reaction colour is changing towards pale reddish; Wherein the meticulous optimization is required to fine tune the shape of the final product; obtained the precipitate after drying further calcined at 300°C, 4h to gain 1D MnO₂. The hydrothermal reaction is proceeded at 150°C, 15 h in stainless steel chamber of 50 ml capacity and the solution is cooled normally and purified with distilled water.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211000092 A

(19) INDIA

(22) Date of filing of Application :02/01/2022

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS OF POST-HARVEST OF RICE STRAW WASTE FOR PRODUCTION OF VALUE-ADDED PRODUCTS

(51) International classification :F23G0007100000, A61K0036899000, C02F0001280000, C04B0018040000, C12N0015820000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Huge volume of agricultural waste is generated annually worldwide. Management and disposal of agricultural waste has been recognized as a challenge as well as a concern considering the negative impact of inappropriate release of the agrowaste into the ecosystem. Burning of such waste is among the most commonly practiced approach to get rid of the waste resulting in substantial contribution to air pollution. Rice is among a major food crop cultivated in India and across the globe and consequently post-harvest of the crop large volume of waste is accumulated dominated by rice straw. In the present scenario where emphasis is on for looking alternate source of renewable energy agriculture waste is among the promising feedstock to be processes in several favourable ways. In the present work rice straw waste was collected and subjected to post harvest processing for silica extraction and oil production, extracted silica can be further utilized for waste water treatment and oil can be utilized as lubricant. The protocol followed resulted in zero residue production with no secondary waste in any form disposed into the environment.

No. of Pages : 16 No. of Claims : 7

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(54) Title of the invention : PICOGRID SYSTEM WITH FUSE PROTECTION

(51) International classification :H02J0003380000, F03D0003060000, F03D0003000000, H02J0007350000, F21S0009040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The picogrid system (100) comprising a solar power generation module (102) which generates a first DC output voltage using one or more photovoltaic panels, , a wind power generation module (108) comprises a vertical axis wind turbine (110) having a brushless DC generator (BLDC) (112) configured to generate a second DC output voltage using the vertical axis wind turbine (110), The inverter (106) is configured to receive the first DC output voltage from the solar power generation module (102) and the second DC output voltage from the wind power generation module (108) and convert the first DC output voltage and second DC output voltage into an AC output voltage and supply the AC output voltage to a domestic load (116).

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : AUTOMATED WASTE SEGREGATION UNIT

(51) International classification :B65F0001000000, B65F0003000000, B65F0001140000, B03B0009060000, B65F0003020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT TITLE OF THE INVENTION: AUTOMATED SEGREGATION UNIT The present invention discloses an automated segregation unit (100), including one or more feeders (101), one or more optical decision makers (105), one or more optical sorters (107), a plurality of storage units (109). A plurality of transport means (103) operationally couples the said components. The optical decision maker (105) is integrated with a first vision system (105') configured to categorize one or more materials present in a stream of mixed objects on the basis of one or more identity parameters. The optical sorter (107) configured to physically segregate the categorized one or more materials from the stream of mixed objects. The one or more optical decision makers (105) instructs the one or more optical sorters (107) to eject one or more category of segregated objects to its respective storage unit (109). A method of operating the automated segregation unit (100) is also disclosed in the present invention. FIG. 1

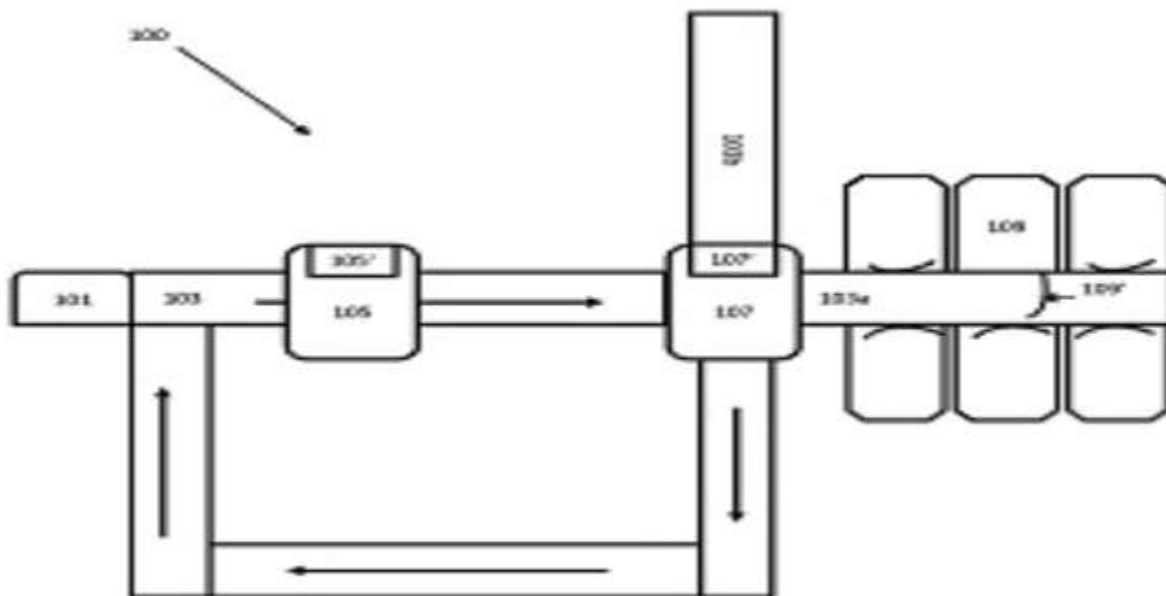


Fig. 1

No. of Pages : 39 No. of Claims : 21

(54) Title of the invention : IMPROVISED VENTILATORY MUSCLE TRAINING AND PEP DEVICE

(51) International classification :A63B0021008000, A63B0021000000, A63B0023180000, A63B0023035000, A63B0023030000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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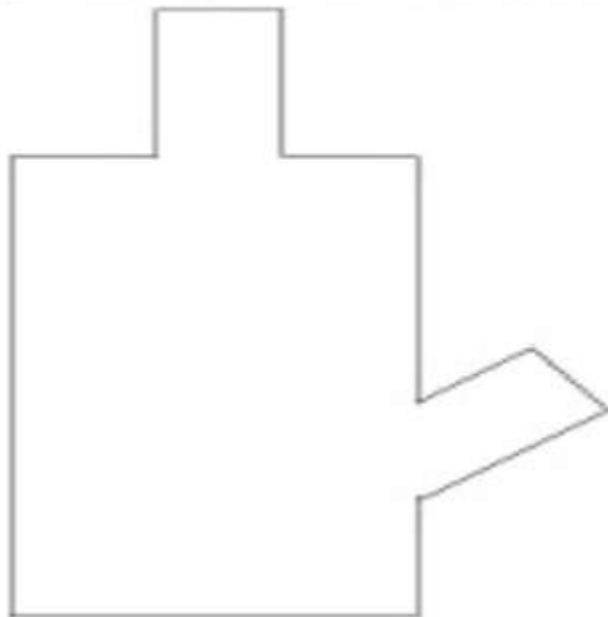
Name of Applicant : NA
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 Address of Applicant :JOY VALENCIA, B/204, SHYAM NAGAR, BEHIND MAJAS DEPOT, JOGESHWARI EAST, MUMBAI -----

(57) Abstract :

The present invention is a medical device which helps in clearing of the secretion from the lungs and helps in strengthening the muscles of respiration. It works on the principle of using pressure as a source of resistance. The prime component of the invention are double mouth piece hollow container (figure 1), elastic bladder (figure 3) and a perforated cap (figure 4). Using a double mouthpiece container with the top end covered with a perforated cap and water filled to the bottom part. Use of an elastic bladder along with the double mouth piece container for use strengthening of muscle of respiration. The use of a perforated cap helps us in increasing the resistance provided for the muscle training.

Figure 1 is the side view of the multipurpose lung device which is showing the top mouth piece and bottom side inclined mouth piece.



No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : FLYWHEEL ELECTRICITY GENERATION DEVICE

<p>(51) International classification :F03D0003020000, F03D0009250000, F16H0033020000, F03G0003080000, F16F0015315000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dharmaraj N. Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj -----</p> <p>2)Chetan Dharmaraj Patil 3)Supriya Dharmaraj Patil Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dharmaraj N. Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj -----</p> <p>2)Chetan Dharmaraj Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj -----</p> <p>3)Supriya Dharmaraj Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj -----</p>
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(57) Abstract :

We Claim: 1. An electricity generation device, comprising: - a first assembled flywheel installed in a horizontal orientation and is adapted to be rotated around a vertical axis by applying a force in proximity to the first flywheel's peripheral surface; - one or more pair of first wheels structurally coupled to the first flywheel, and symmetrically installed in a vertical orientation at the peripheral surface of the first flywheel, or in proximity to the peripheral surface of the first flywheel, and each of the wheels is adapted to rotate around a different horizontal axis which meets to each other at the vertical axis, whereby due to rotation of the first wheels the force is applied in proximity to the peripheral surface of the first flywheel; and - a power conversion unit functionally coupled to the first flywheel, and adapted to convert rotational energy of the first flywheel into electrical energy. 2. The electricity generation device as claimed in claim 1, wherein the first wheels are supported by a first supporting surface. 3. The electricity generation device as claimed in claim 1 wherein the system includes one or more powered rotational unit functionally coupled to the first wheels adapted to rotate the first wheels, where the said powered, rotational unit is situated on the surface of the flywheel assembly. 4. The electricity generation device as claimed in claim 3, wherein each first wheel is coupled to one of the powered rotational units, and the powered rotational unit are placed in proximity to the first wheels and are symmetrically placed with respect to other power rotational units, where the flywheel assembly includes a spline which works with bearing and in the housing making it easy to slide up and down. 5. The electricity generation device as claimed in claim 4 wherein the system includes no-load relay and overload relay which ceases the complete power supply to the system, where the said flywheel is attached more than one bearing during installation to prevent it from misbalancing. 6. The electricity generation device as claimed in claim 4 wherein the controller is used to control the power transmitted to the powered rotational units or rotational power generated by the powered rotational units, such that all the first wheel rotates at same speed. 7. The electricity generation device as claimed in claim 3 wherein the bus bar is concentrically coupled to the first flywheel, in which the bus bar is adapted to be connected to a power source through a first electrical connection and to the powered rotational unit through a second electrical connection, so as to supply power received from the power source to the powered rotational unit, wherein due to the rotation of the first flywheel the second electrical connection also rotates. 8. The electricity generation device as claimed in claim 6 where one or more second wheels are functionally coupled to the first flywheel and installed in a vertical orientation in proximity to the corresponding first wheel, such that the second wheel has a gap between the lowest end of the second wheel and a second supporting surface underneath when the second wheel corresponding to the first wheel is properly functional, and the lowest end of the second wheel touches the second supporting surface when the corresponding first wheel malfunctions. 9. The electricity generation device as claimed in claim 7 wherein one or more limit switches embedded in the supporting surface, wherein when the second wheel touches the supporting surface or roll over to the limit switch, the limit switch is adapted to trigger switching of the power supply to the powered rotational unit. 10. The electricity generation device as claimed in claim 1 wherein one or more second flywheels are functionally coupled between the first flywheel and the alternator and installed in vertical orientation and are adapted to rotate around a second horizontal axis, wherein the alternator is adapted to convert rotational energy of the first flywheel into electrical energy. The electricity generation device as claimed in claim 1 wherein the first flywheel comprises of multiple symmetrical parts and each part is provided with connection means to connect with other parts.

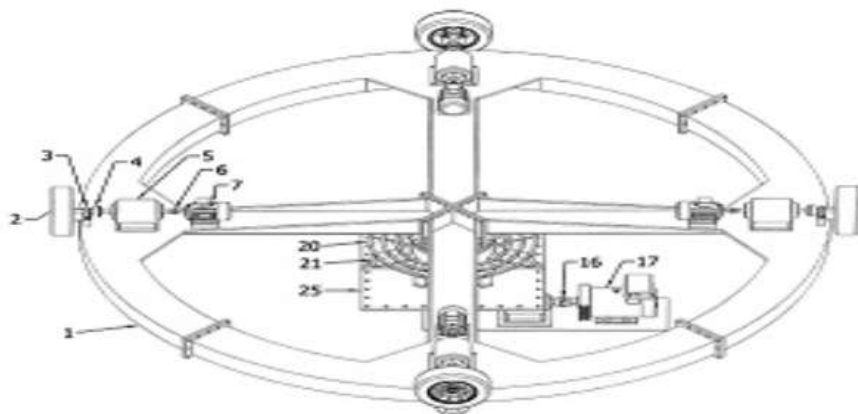


Fig 1

No. of Pages : 26 No. of Claims : 11

(54) Title of the invention : FLYWHEEL ELECTRICITY GENERATION DEVICE

(51) International classification :H02K0007020000, H02K0001270000, H02K0007180000, H02K0053000000, F03B0017060000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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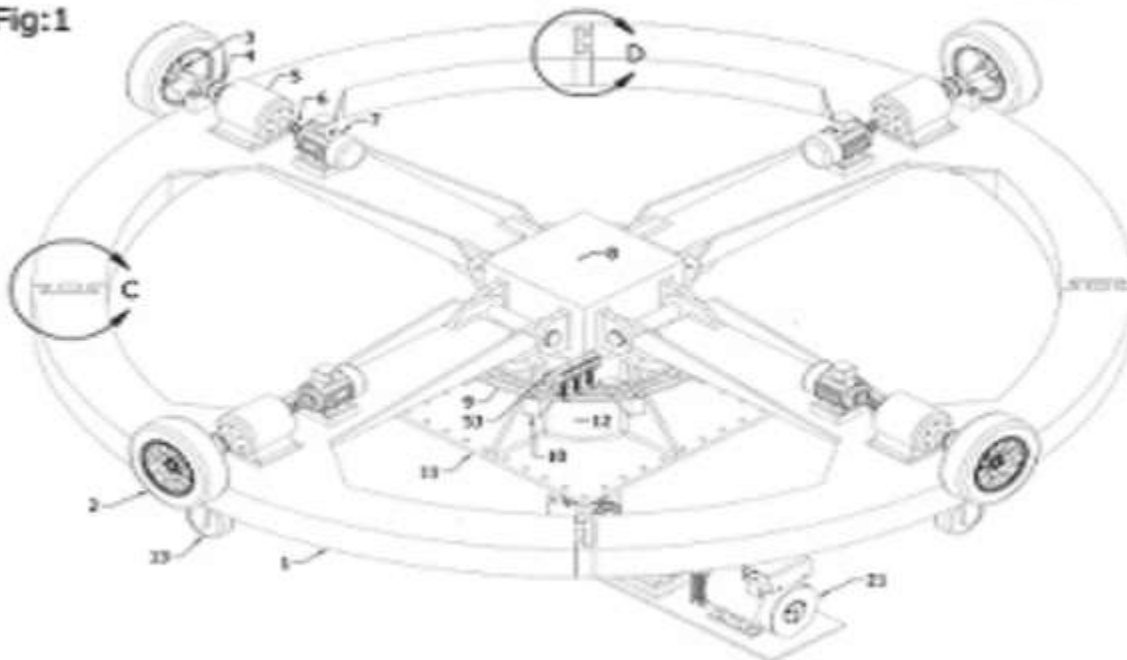
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 Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj -----

(57) Abstract :

ABSTRACT FLYWHEEL ELECTRICITY GENERATION DEVICE The flywheel electricity generation device is disclosed comprising of assembled horizontally installed flywheel 1, AC or DC drive assembly which is installed near to periphery on the top surface of the flywheel 1. Tire wheel 2 which is connected with drive assembly and putted on the circular concrete path. The partly load of the flywheel 1 is on the tire wheel 2 and partly is on the steel metal foundation. One end of the vertical shaft is connected to central assembly of the flywheel and other end of the vertical shaft is connected to generator assembly. And power is supplied by circular shape busbar friction assembly to drive assembly, then the flywheel rotates from the circumference of the flywheel by the drive assembly and the generator assembly rotates by the flywheel central assembly, achieving more power with high torque.

Fig:1



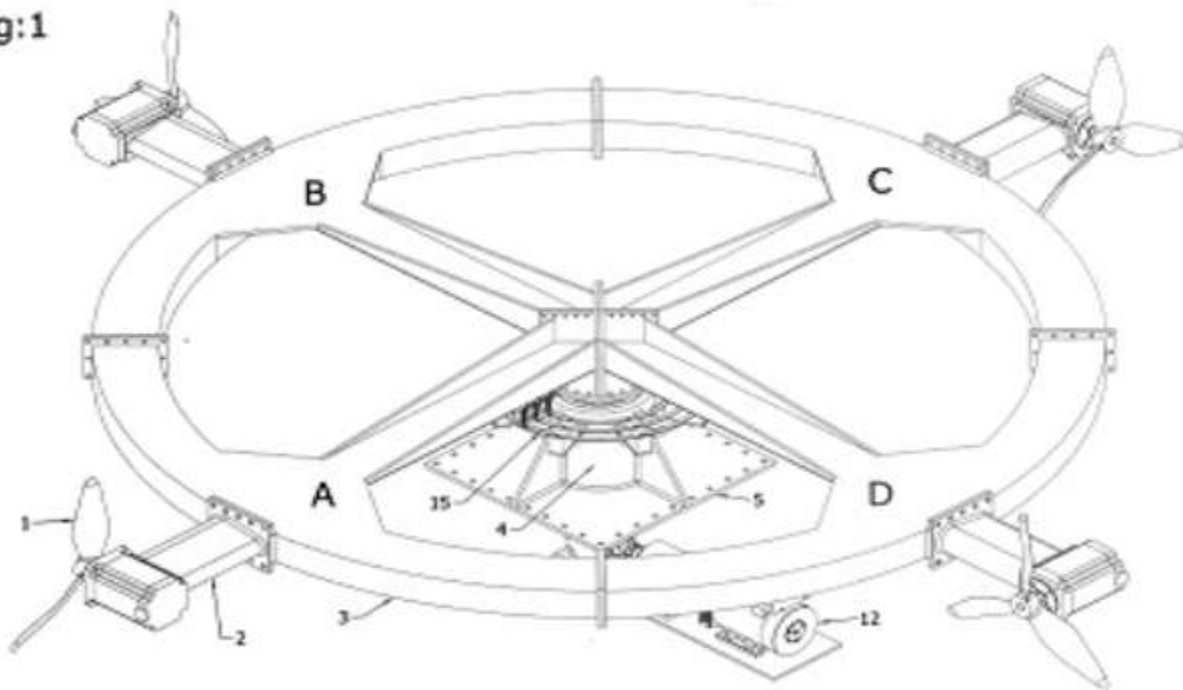
(54) Title of the invention : FLYWHEEL ELECTRICITY GENERATION DEVICE

<p>(51) International classification :H02K0007020000, H02K0007180000, B01F0007000000, F03G0003080000, H02K0021220000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dharmaraj N. Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj ----- 2)Chetan Dharmaraj Patil 3)Supriya Dharmaraj Patil Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dharmaraj N. Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj ----- 2)Chetan Dharmaraj Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj ----- 3)Supriya Dharmaraj Patil Address of Applicant :Pitashree Bunglow, Behind Ruby Building, Carmel School Road, Bhanwaj -----</p>
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(57) Abstract :

Abstract Flywheel Electricity generation Device The flywheel electricity generation consists of a horizontally installed assembled flywheel 3, propeller assembly 1, vertical shaft 6, busbar 15, friction connector 19 and generator assembly, with more than one propeller assembly 1 installed on the periphery of the horizontally positioned flywheel 3. One end of the vertical shaft 6 is attached to the central assembly of the flywheel and the other end to the generator assembly. When AC or DC power is supplied by the rotating busbar friction assembly to the motor of propeller assembly 1, the motor spins the propeller 1, causing the flywheel 3 to rotate from the circumference of the flywheel, and the generator assembly rotating from the central assembly of the flywheel, Therefore, higher torque is achieved, which enables the mechanism to achieve higher power output.

Fig:1



No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD OF PREDICTING FAILURES

<p>(51) International classification :G06N0020000000, G06N0007000000, H04L0012240000, F02D0041260000, G06F0017180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)JIO PLATFORMS LIMITED Address of Applicant :Office-101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad - 380006, Gujarat, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUMAR, Dr. Akansha Address of Applicant :Flat No. F1302, Aparna Hill Park Lake Breeze, PJR Enclave Road, Chandanagar, Hyderabad - 500050, Telangana, India. -----</p> <p>2)MUNNANGI, Krusheel Address of Applicant :Flat No. 208, Kailasgiri Apt, 7th Cross, Nagavarapalya, Bangalore - 560093, Karnataka, India. -----</p> <p>3)KUMAR, Dr. Shailesh Address of Applicant :Flat No. C-16, Madhuvanam Apartment, Kanha Shantivanam, Hyderabad - 500084, Telangana, India. -----</p>
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(57) Abstract :

A system and method for prediction of failures and optimization, that can provide solution available for unsupervised learning models based on limited data that can predict different types of failure and pre-failure instances. The solution provides improvement upon previous methods of labelling by marking certain days data ahead of failure as belonging to failure data which will result in reduction of noisy data and improves good working condition data. The present invention helps with improved data quality due to labelling as the proposed method models complex distributions of feature vectors accurately and are better at finding deviations from normal data distribution which is used for detecting failures. The novel solution help to analyse and categorise the type of failures for PC Pumps currently deployed in CBM Fields for which failure days in advance can be predicted.

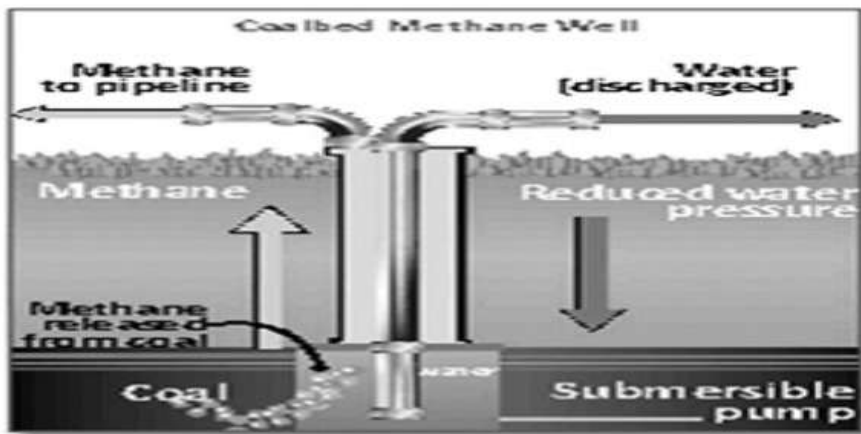


FIG. 1A

No. of Pages : 44 No. of Claims : 11

(54) Title of the invention : PRECAST SUPPORT FOR ELECTRIC POLE

(51) International classification :A61K0009700000, H01M0004133000, H01L0027115680, H01Q0001120000, H01L0031050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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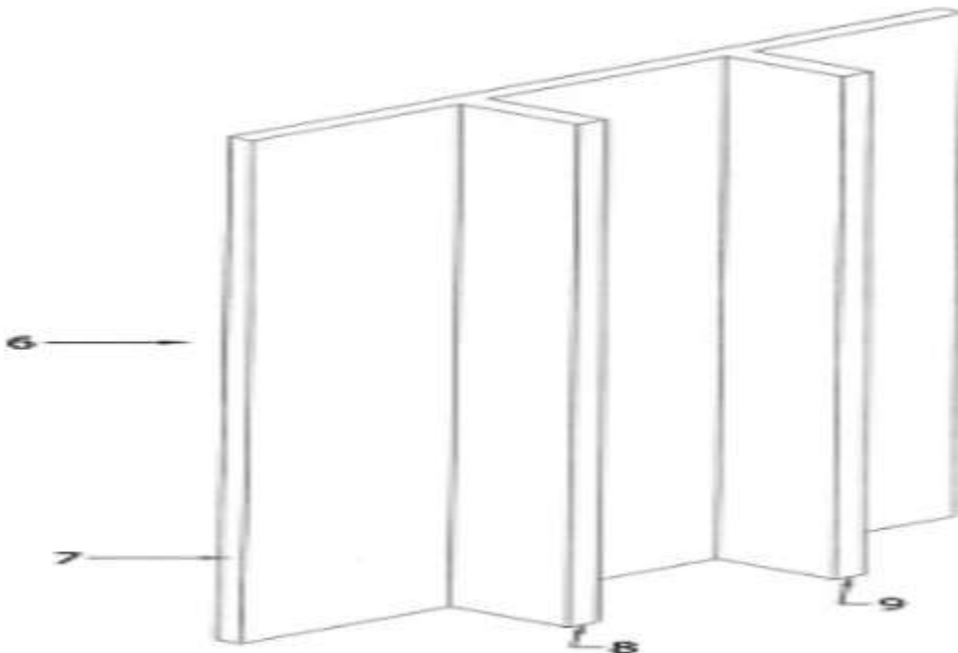
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(57) Abstract :

Abstract The technical solution currently adopted by this invention to solve the problem of bending poles is: two strips of sufficient length, width and thickness are welded or moulded as perpendicular to the centre of the sheet surface, so that the two walls are made. There is a sufficient distance between the two vertical strips greater than the thickness or width of the pole. The support thus formed is attached to the pole from the side from which the pole bends.



No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : SYSTEM AND METHOD OF AUTOMATED AUDIO OUTPUT

(51) International classification :G10L0013080000, G10L0013040000, G10L0013100000, G10L0013033000, G06F0003160000

(86) International Application No Filing Date :NA :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present disclosure relates to a system and a method for facilitating automated conversion of an input text by a user into a synthesized speech based audio output based on an artificial intelligence architecture. The implementation involves processing, at a text processing engine of the system, an input text received from a user device associated with the user. A plurality of audio datasets is concatenated, through an artificial intelligence engine of the system, to obtain a first output comprising a concatenated speech. The concatenated speech may be refined, through the AI engine, based on one or more pre-defined prosody based attributes to obtain a second output comprising the synthesized speech based audio output, which is not robotic in nature and provides an enhanced audio quality.

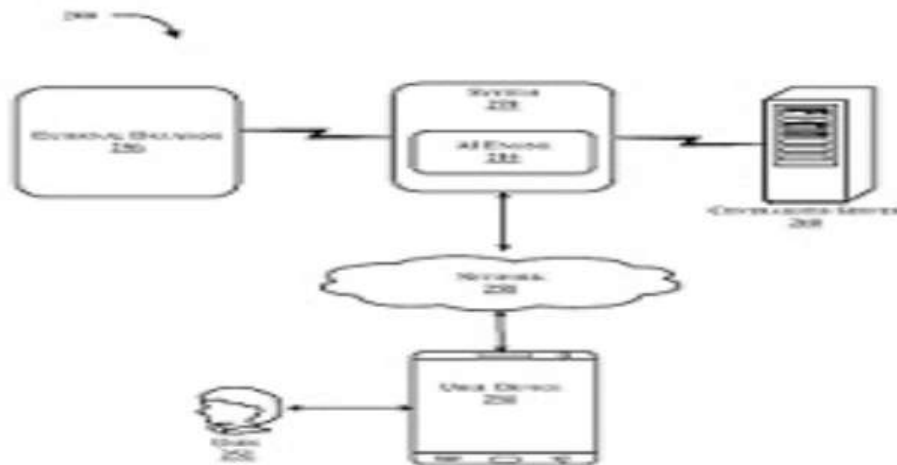


FIG. 2A

(54) Title of the invention : A LOCK ASSEMBLY FOR A SLIDING DOOR

(51) International classification :E05B0047000000, E05B0065000000, E05B0065080000, E05C0003040000, E05B0015100000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 ABSTRACT A LOCK ASSEMBLY FOR A SLIDING DOOR The present disclosure relates to and envisages a lock assembly for a sliding door. The assembly comprises a support structure (10, 20), at least one pivoting hook (50A,50B) and an actuation mechanism. The actuation mechanism comprises a slider (30), a crank (40) and a locking bracket (90). The crank (40) is operable by the locking means (12). The slider (30), mounted on the support structure (20), slides along a plane parallel to the plane of the support structure (20). The slider (30) is linked to the pivoting hook (50A,50B) to facilitate rotation of the pivoting hook (50A,50B) to a locked state from an unlocked state and vice versa. The locking bracket (90) is rotatable and has a locking profile (92) that enables locking of the slider (30) and thereby pivoting hook (50A, 50B) in either a locked or in an unlocked state.

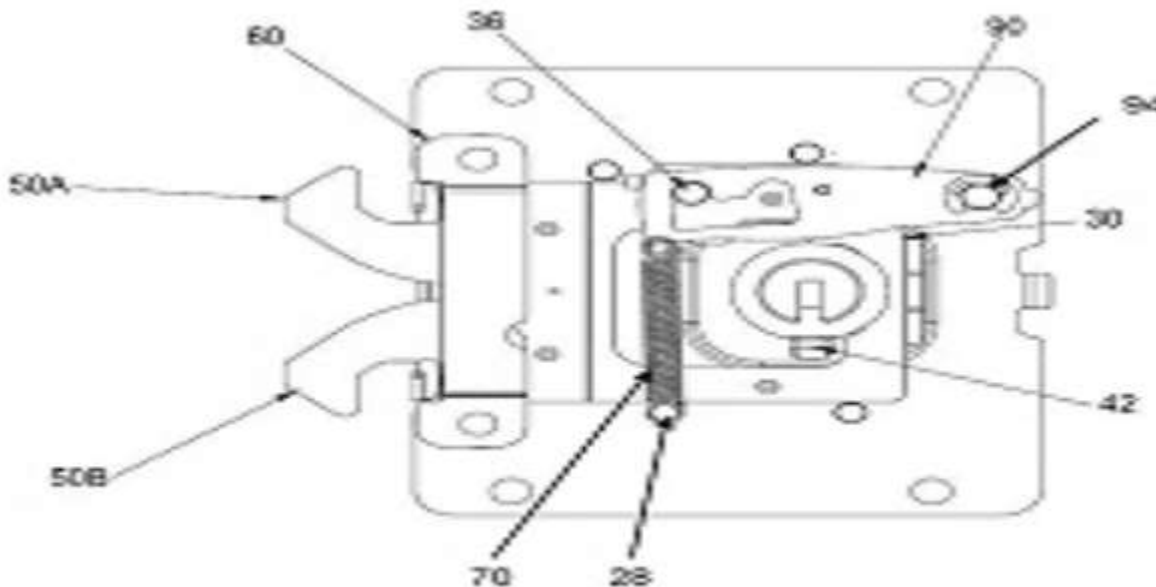


FIGURE 5

No. of Pages : 25 No. of Claims : 6

(54) Title of the invention : ACETAZOLAMIDE, FLAVOURED, VARIABLE POTENCY FORMULATION FOR PROPHYLAXIS OF HIGH ALTITUDE MALADIES.

(51) International classification :H04B0007185000, A61K0031433000, C07D0285135000, A23G0003560000, A61K0009700000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

Figure-1



No. of Pages : 16 No. of Claims : 22

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTION OF DEBRIS IN AN MARIN IMAGE USING KNOWLEDGE OF DEEP LEARNING

(51) International classification :G06N0003080000, G06N0003040000, B63G0008000000, G06K0009460000, G06K0009620000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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3)Rahul Bajaj
4)Suyash Garg
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(57) Abstract :

The invention proposes systems and methods for the detection and extraction of the debris region in an input image. We have used a deep-learning based algorithm to perform the task of visually detecting garbage in natural underwater habitats. The ultimate goal of using Autonomous Underwater Vehicles (AUVs) is to explore, track, and remove that debris. For training deep neural network architecture for object recognition, a massive and publicly accessible dataset of real debris in various locations is annotated. The qualified network is then tested on a series of images from other parts of the dataset, yielding information on how to improve an AUV's detection capability for underwater trash removal. The trained system detects features of interest in a test image using the bounding box and class label maps. Our findings are expected to advance the goals of using AUVs to automatically survey, identify, and capture aquatic debris in underwater environments.

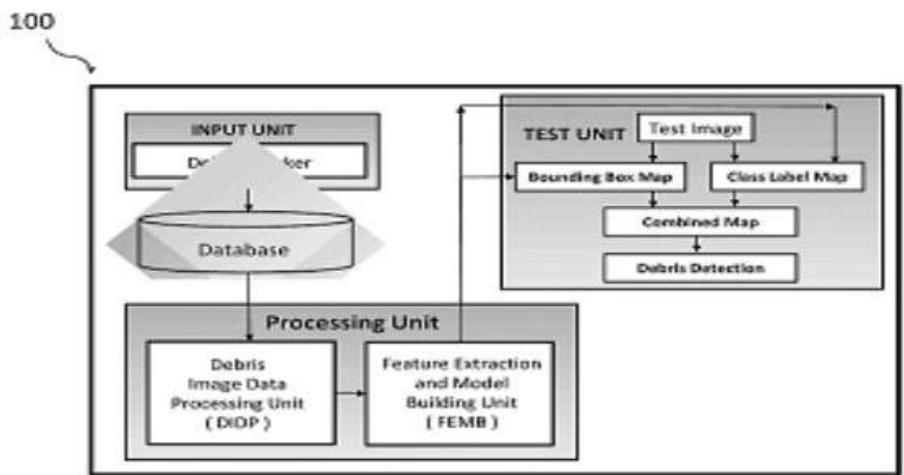


FIG. 1: System for detection of marine debris present in oceans using knowledge of Deep Learning

(54) Title of the invention : PURE OXYGEN GENERATOR BY ELECTROLYSIS OF WATER WITH HYDROGEN FUELCELL BASED SELF GENERATED LOCAL POWER AND ULTRASOUND DE-POLARIZER

(51) International classification :C25B0001040000, C01B0013020000, C25B0011040000, C25B0015020000, H01M0008041190

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN APPARATUS FOR GENERATION OF PURE OXYGEN BY ELECTROLYSIS OF WATER An apparatus (100) for generation of pure Oxygen by electrolysis of water comprising electrolysis chamber (0207) a first set of electrolysis sub-chambers (0205) having multiple cells of Anode electrodes and a second set of electrolysis sub-chambers (0206) having multiple cells of Cathode electrodes, configured to receive water, an electrical power source (03) configured to supply electricity and charge the Anode electrodes and Cathode electrodes to perform electrolysis of the water. The first set of electrolysis sub-chambers (0205) configured to disintegrate the water to produce Oxygen. The second set of electrolysis sub-chambers (0206) configured to disintegrate the water to produce Hydrogen. A Hydrogen fuel cell (06) configured to receive Hydrogen from the second set of electrolysis chamber (0206) to energise the electrical power source (03), and an ultrasound transducer (04), configured to vibrate molecules of the water used for the electrolysis minimizing effect of polarization of the Anode electrodes and the Cathode electrodes. [Figure 1]

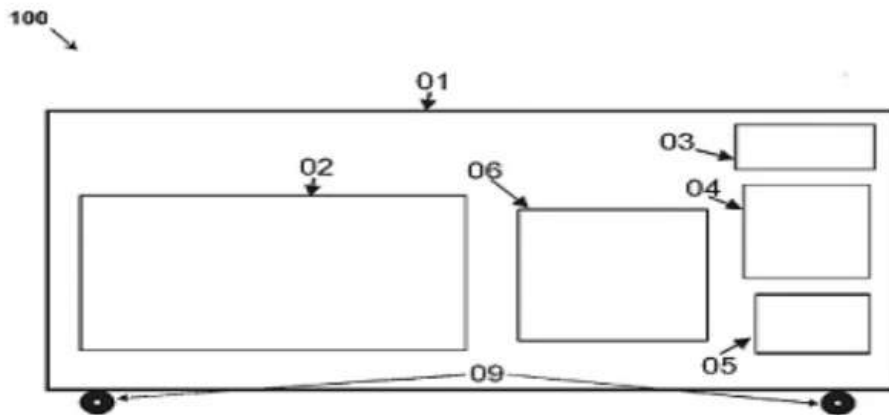


FIG. 1

No. of Pages : 32 No. of Claims : 9

(54) Title of the invention : A RETROFIT INTELLIGENT MULTI-PARAMETER MEASURING AND DATA PROCESSING SYSTEM

(51) International classification :A61M0015000000, A61B0005000000, A61B0005010000, A41D0013120000, G16H0010600000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

In the last few decades, we have seen smart devices taking over a lot of domains like entertainment, automotive, healthcare, etc. With all these smart devices, the main objective is to make the existing devices capable of doing much more than they are currently capable of, thereby making the lives of the users easier. The smart inhaler is an add-on to the traditional inhaler systems which can benefit the patients using modern-day technologies. The smart inhaler system consists of hardware, built on a Seeeduino Xiao development board and an application to use the hardware which is connected via Bluetooth. The inhaler will perform the primary tasks of keeping the usage and count but has a lot more to offer on that. It can keep track of usage in spans of weeks or months and help find a suitable medicine for the patient. In addition to that, it keeps track of the air quality around the patient, body temperature, heart rate, and SpO2. It makes it easy to identify why a patient encountered an attack. In addition to this, the emergency feature is provided which informs the patient's relative and the nearby hospital, when a severe attack is encountered. All this information can be useful in creating medical reports which can then be shared with doctors over the network available on the application. Also, the patient can be warned about the air quality around them which enables them to take the right precautionary measures. The device can be used by patients who have mild or severe asthma, helping them track their medicines and consult doctors online. The emergency feature will create a sense of confidence among the elderly patients, and help them live a normal life.

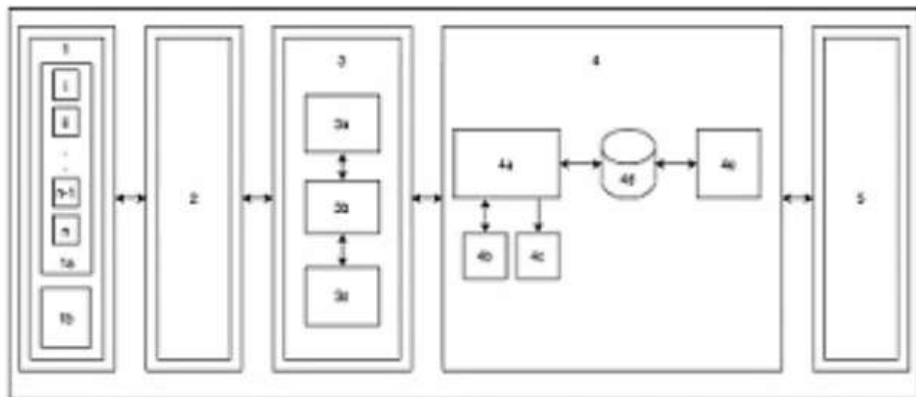


Figure 1. Block Diagram of a Retrofit Intelligent Multiparameter Measuring and Data Processing System

(54) Title of the invention : BRUSHLESS MOTOR AND COOLING SYSTEM THEREOF

(51) International classification :F28D0015020000, H01L0023467000, H02K0009190000, H02K0001200000, H02K0009220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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2)Milan Hemantkumar Hansaliya (Student of GTU Affiliated College)
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(57) Abstract :

The present invention discloses a cooling system (4) for outrunner brushless DC motor (1) which includes a radial heat transfer element (41) having a plurality of fins (413) on its outer surface where the radial heat transfer element (41) is fitted in the stator core (21) to extract heat from the stator (2). The heat from the radial heat transfer element (41) is removed by a plurality of heat pipes (42) and the plurality of heat pipes (42) is further cooled by a coolant (433) flowing in the hollow stator shaft (433) of the stator (2). The cooling system (7) for inrunner brushless DC motor (6) consists of a heat transfer element (71) which has a plurality of fins (713) on the inner surface and encloses the stator (61). A plurality of heat pipes (72) and a fan (73) are provided to cool the heat transfer element (71).

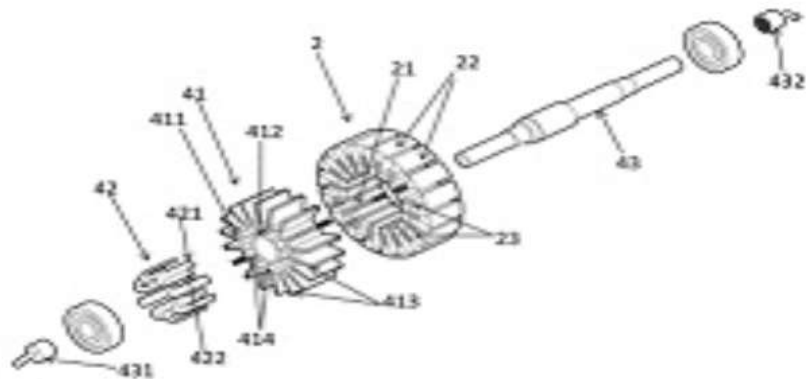


Fig. 5

No. of Pages : 36 No. of Claims : 7

(54) Title of the invention : METHOD FOR SYNTHESIS OF L-PROLINE GRAFTED ON SILICA SUPPORTED CATALYST AND ITS USE IN ASYMMETRIC ALDOL REACTION

<p>(51) International classification :B01J0023460000, C12P0013240000, B01J0021080000, C07C0045740000, C07C0067303000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)CHETANKUMAR KANTILAL MODI Address of Applicant :APPLIED CHEMISTRY DEPARTMENT, FACULTY OF TECHNOLOGY & ENGINEERING, KALABHAVAN, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA - 390001, GUJARAT, INDIA. -----</p> <p>2)PRATIK KUMAR CHIMANBHAI LAKHANI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)CHETANKUMAR KANTILAL MODI Address of Applicant :APPLIED CHEMISTRY DEPARTMENT, FACULTY OF TECHNOLOGY & ENGINEERING, KALABHAVAN, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA - 390001, GUJARAT, INDIA. -----</p> <p>2)PRATIK KUMAR CHIMANBHAI LAKHANI Address of Applicant :APPLIED CHEMISTRY DEPARTMENT, FACULTY OF TECHNOLOGY & ENGINEERING, KALABHAVAN, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA - 390001, GUJARAT, INDIA. -----</p>
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(57) Abstract :

A hybrid organic-inorganic heterogeneous catalytic system was developed by covalently tethered L-Proline onto the silica matrix by reacting L-Proline methyl ester with N-methyl-3-(trimethoxysilyl)propan-1-amine-functionalized silica without the use of protecting groups. The final catalyst has been characterized through various physicochemical techniques to substantiate that the carbonyl group of L-Proline methyl ester is grafted successfully onto amino group of N-methyl-3-(trimethoxysilyl)propan-1-amine-functionalized silica. The structural integrity of linker modified silica matrix and the organic scaffold viz. L-Proline is remained intact during the grafting process. The catalytic competence of the claimed catalyst (5) was successfully used in the liquid phase asymmetric aldol reaction and has achieved tremendously enhanced catalytic efficiency, leading to 100% conversion with exceptional 99.10% excess of enantiomer selectivity of the product.

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : DUAL WORKING COMPOSITE MASK VENDING MACHINE WITH DISPOSING UNIT FOR DESTROYING WASTE MASKS.

(51) International classification	:G07F0013100000, G07F0009020000, G07F0011000000, B29B0017000000, G07F0017260000	(71)Name of Applicant :	1)HARSHADA NAMDEV TALAPE Address of Applicant :Hs.No. 15, Kashid Park, Kranti Nagar, Pimple Gurav, Pune-61 -----
(86) International Application No	:NA		2)Shinde Akshaykumar Rajendra
Filing Date	:NA		3)Shubham Chaturvedi
(87) International Publication No	: NA		4)Tayade Ritul Rambhau
(61) Patent of Addition to Application Number	:NA	Name of Applicant : NA	Address of Applicant : NA
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(57) Abstract :

ABSTRACT: The origin of the novel coronavirus (SARS-CoV-2) and its potential harm to humankind increased the use of face mask, gloves and safety kits thus escalated medical waste in the environment. Consequently in the period of pandemic we as a team came up with an idea of implementing a Smart Mask vending machine with Mask shredding compartment. Face masks are now part of the new normal around the world amid the ongoing COVID-19 pandemic. They are the first line of defense and their importance in public places cannot be underestimated till the countries around the world successfully reach their vaccination goals, face masks will prevail. Vending machine is an automated machine which is used to provide food, beverages, snacks and various other items after inserting coin, debit card or specially designed cards into the machine. In this contemporary technological world Vending Machines have taken a worthy place in the society in order to make an easy and safe purchasing to the consumer and can play a vital role in safety at public places. At present there are various Simple and even Intelligent vending machines for different purposes. In many technologically advanced nations such as USA, UK, China, Japan and others vending machines are extensively and frequently used. Lately China has successfully launched a Mask Vending Machine however there was the absence of disposing kit in the machine. Thus currently in the market combined system is not available. The implementation of such system will occupy less space and also have lower energy consumption. The objective of this research work was to design a Shredding Machine to obtain small pieces of the waste masks in such a way that it will be helpful for industry to recycle it directly in an automated process and also to reduce pollution in the environment. The disposing of used mask in apt way will play a vital role in minimizing the spread of viral diseases. Thus considering the urge of this quick requirement of machine we worked on the manufacturing of our Model. Hence even if Vaccination is must, Mask will always remain First.

AutoCAD Design

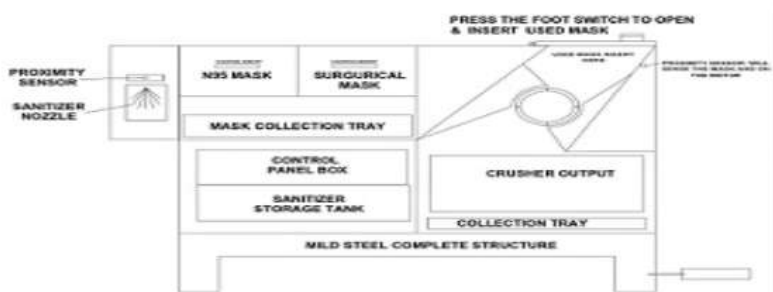


Fig. 1. Block Diagram of complete system layout

No. of Pages : 25 No. of Claims : 8

(54) Title of the invention : A METHOD OF COMBINING SIGNAL FOR AN ANTENNA ARRAY COMPRISING OF A PLURALITY OF ANTENNAS.

(51) International classification :H01Q0003260000, H04B0007080000, H04B0007045600, H03L0007197000, H04B0007060000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

A method of combining signal for an antenna array comprising of a plurality of antennas. This invention describes a means for delaying a first baseband signal by a predetermined amount, and then for each of the remaining baseband signals to be electronically delayed in time by a sampled data feedback loop in order to match in time the delayed first baseband signal. Each of the remaining baseband signals, after passing through an associated variable delay means, is provided to a corresponding correlator which generates a digital signal related to the phase difference between that signal and a combined signal provided to the correlator comprising a sum of all of the other delayed baseband signals. Therefore, after subtraction of the first correlation signal from each of the other correlation signals, only errors associated with the specific baseband signal to be corrected are applied to its associated variable delay means, thereby providing the means whereby each delayed baseband signal can be brought into phase coincidence with all of the other baseband signals.

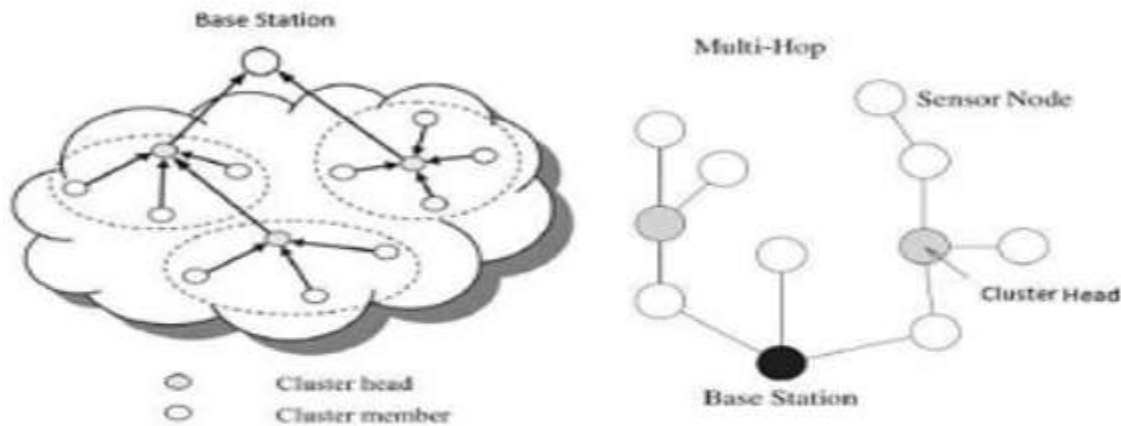


Figure – 1 is a block diagram of the baseband signal combiner provided by the invention;

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED VOCABULARY ACQUIRING APPARATUS

(51) International classification :A61B0005000000, G06N0020000000, G10L0015220000, G06N0005020000, G06N0003080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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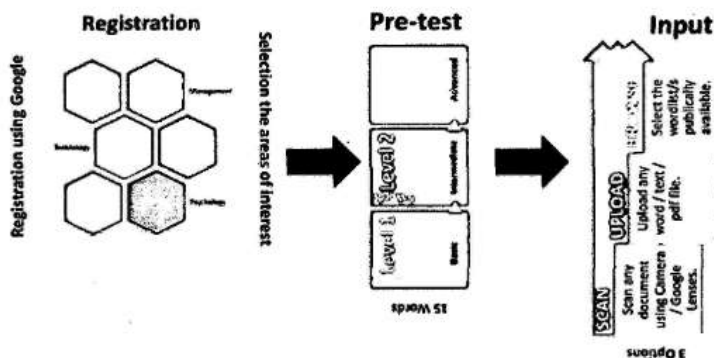
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(57) Abstract :
 There have been various methods tried and tested to help the E.S.L. learners acquire the vocabulary through demonstration, objects, and pictures; abstract. However, no method has been found more significant. However, there has been an acute dearth of a platform that can help second language learners to acquire the vocabulary of the English language. There has not been a single platform that could engage and evaluate the learners' progress using Artificial Intelligence. The proposed process guides, motivates, inspires, and helps use the words wisely, pertinently, and meritoriously.

Fig. 1



The proposed framework of Registration, Pre-Test & Input Options.

No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : SOLAR OPERATED DUST BIN SEGREGATOR.

(51) International classification :A47L0009160000, C02F0001140000, F24S0040200000, H02J0007350000, F21S0009030000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

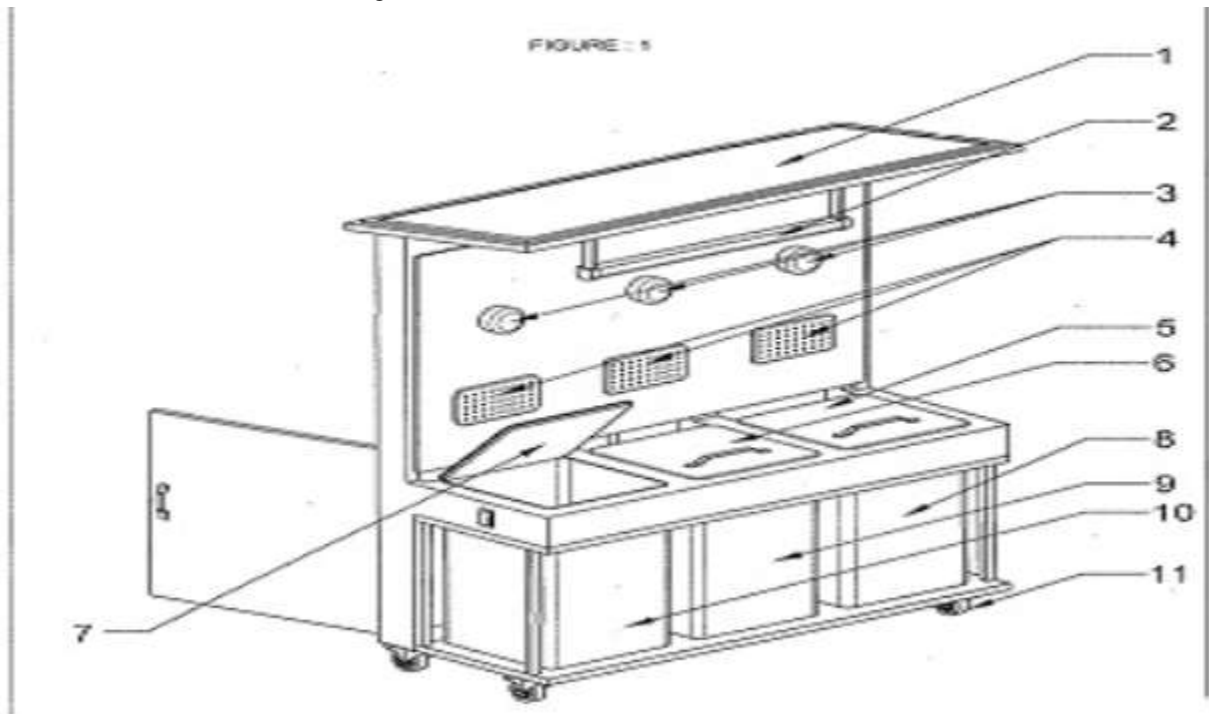
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(57) Abstract :

The main objective of this project is to design of SOLAR OPERATED DUST BIN SEGREGATOR which will help keeping our environment clean and eco friendly. The three varieties of garbage viz e-waste, plastic waste and paper waste have to be segregated and dumped into the garbage bin. It is usually done manually and segregated wastage should be dumped in separate bins. But if human error poses the problem then the waste with exact category may be dumped in wrong garbage bins which cause hardship while disposing at the garbage dumping yard which may further be processed to either recycle or to become ashes. The novel design concept is to design the dust bin which allows only the corresponding waste is allowed to be dumped in the bin with exact category. The visually impaired person is directed through voice message to put the waste, depends on the category at the appropriate garbage container which are coded and distinguished with various colors.



No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : AUTOMATIC SOLAR PANEL CLEANER WITH STREET LIGHT.

(51) International classification :F21S0008080000, F21W0131103000, F21S0009030000, H01L0031042000, H04N0007180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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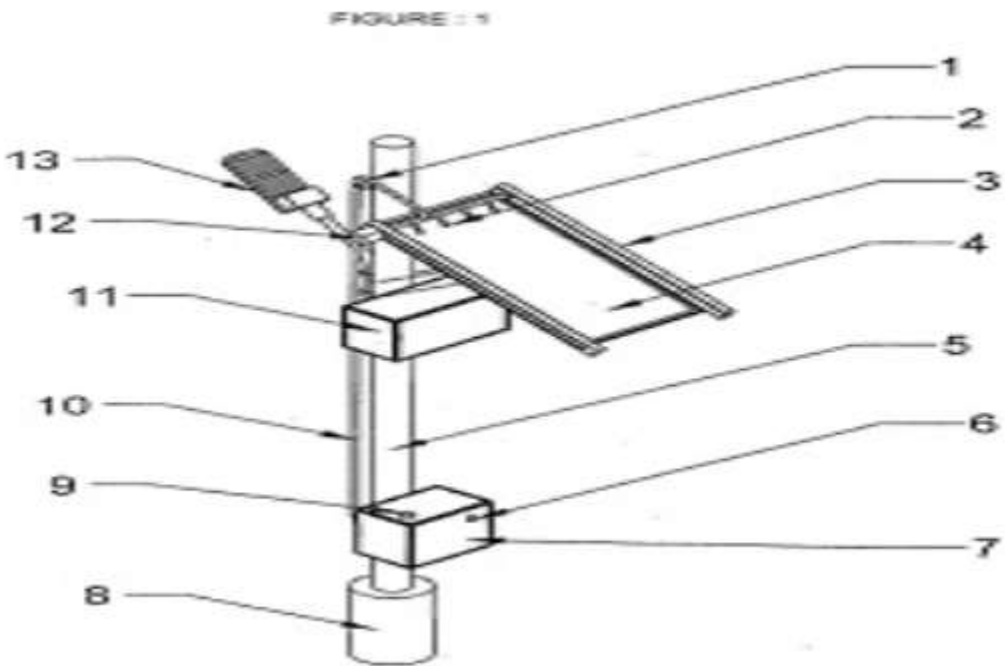
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(57) Abstract :

The titled Automatic Solar Panel Cleaner With Street Light is designed on integral mast which holds the LED street light powered with solar panel illuminates the surroundings with cool white light powered by battery back up. The solar panel is fixed with cleaning device which is programmed to clean up the surface of the solar panel with water jet spraying to remove dust or other particles every day after sunset. The pre programmed scheduled timings to execute the cleansing process is done by spraying the water jet on the surface of the panel and the LED street light is programmed to glow only in the dark and off after the sunrise automatically.



No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : RUNNING PRACTICE LIGHT SIMULATOR.

(51) International classification :B60T0008400000, A63B0069000000, G09B0023280000, A63B0069360000, G10D0013030000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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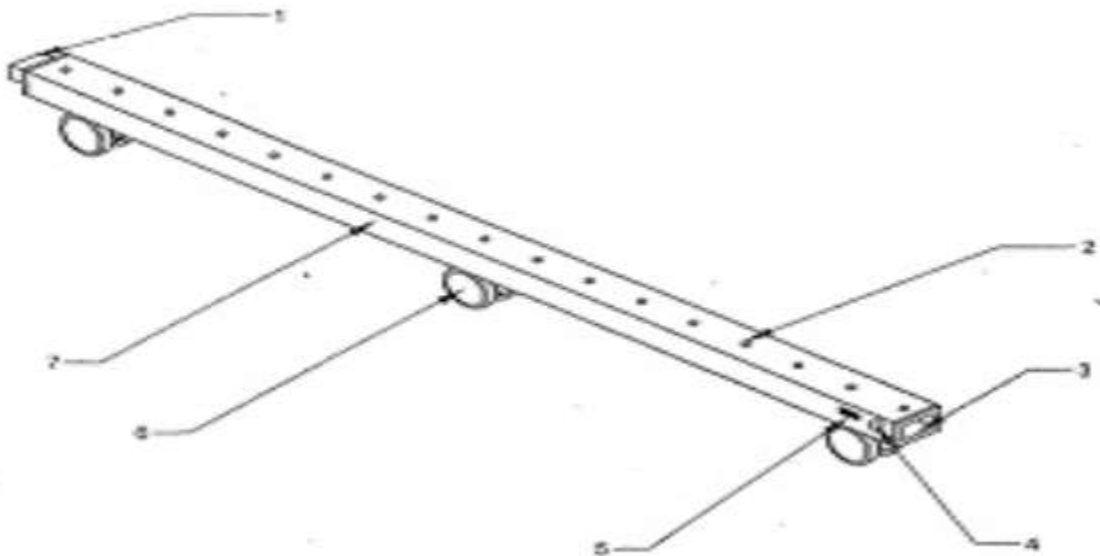
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Address of Applicant : NA

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(57) Abstract :

The titled Running Practice Light Simulator is designed to perform the running practice by the practitioner by running and following along with the moving LED light effect. It creates more confidence with the practicing person and self reliant without seeking others' assistance or from the trainee coach. The device is stationed on the sides of the ground and while performing the running practice the device is switched on and the alternate LED lights are blinking with the selected speed which creates running simulation and the practicing person will follow the moving light and has to run along with that till reaching the target.

FIGURE - 1



No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : TEMPORARY SPEED BREAKER WITH UNDER CABLE TUNNEL.

(51) International classification :H04L0012460000, B23B0027140000, E21F0013000000, F25D0023080000, B22C0009080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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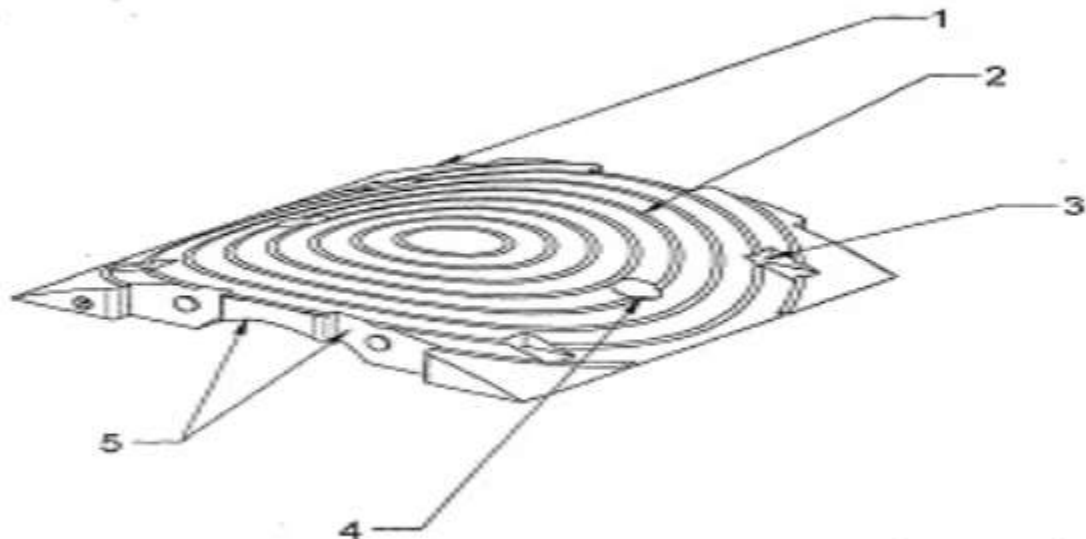
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(57) Abstract :

The titled Speed breaker bump with power cable transfer tunnel designed to be installed on the important junction of the road as temporary speed breaker is used to regulate the speed of the moving vehicle while the cavity provided under the bumping blocks is used to pass the electric power cable from one side of the road to the another side of the road. The passing of under way electric cable is used to transfer the electric current from the available side to another side for utilizing the electric load used for construction or other maintenance works. The dual purpose of the bumping blocks of serving as speed breaker as well as the under cavity cable transfer is compactly designed .

FIGURE - 1



No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : DRILLED HOLE DEPTH GAUGE.

(51) International classification :A61B0090000000, B25F0005000000, G01B0003280000, F42D0003040000, B23B0049000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

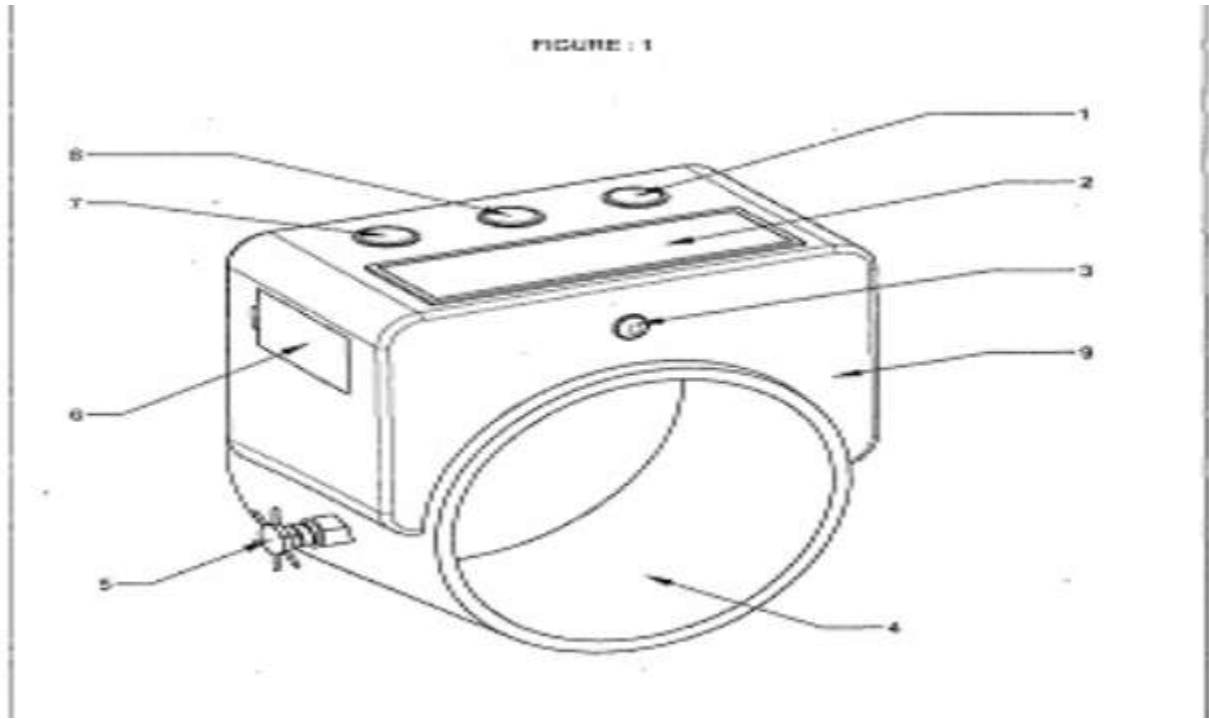
(71)Name of Applicant :
1)PANDIT DEENDAYAL ENERGY UNIVERSITY
 Address of Applicant :PANDIT DEENDAYAL ENERGY UNIVERSITY KNOWLEDGE CORRIDOR, RAISAN VILLAGE, GANDHINAGAR - 382007, GUJARAT, INDIA. ----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)ANIRBID SIRCAR
 Address of Applicant :PANDIT DEENDAYAL ENERGY UNIVERSITY KNOWLEDGE CORRIDOR, RAISAN VILLAGE, GANDHINAGAR - 382007, GUJARAT, INDIA. ----

(57) Abstract :

The titled Hand drilling machine depth measuring gauge attachment is used to measure the depth of the drilled hole and the dimension is shown in the OLED display. The device is made as an attachment and can be fastened with the head portion of the drilling machine facing the IR sensor to measure the distance of the drilled surface. The drilled hole is sensed by the IR sensor and the penetrating distance inside the drilled hole is measured and the distance is displayed as numerical value on the OLED display either in mm or inch. The device is powered by lithium polymer battery and designed as handy and weightless.



No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : A SAFETY DEVICE AND SYSTEM

<p>(51) International classification :H04W0004900000, H04W0076500000, H04L0029060000, H04L0029080000, G08B0025010000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ansh Patel Address of Applicant :B-10,Setu Bunglows Opposite Dhananjay Towers, Shyamal Square, Ahmedabad Gujarat India -- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ansh Patel Address of Applicant :B-10,Setu Bunglows Opposite Dhananjay Towers, Shyamal Square, Ahmedabad Gujarat India ----- -----</p>
---	--

(57) Abstract :
Abstract A SAFETY DEVICE AND SYSTEM The present invention provides a safety device and system. Said safety device and system comprises of: an input means-1 (IM-1), an input means-2 (IM-2), a processing means (MP), a triggering means of emergency (TME) and a prioritizing means (PRM). It monitors the physical activity of the user to pre-identify any attack before the physical contact of the attacker. It provides cloud emergency trigger to ensure emergency triggers even if the attacker breaks the safety device and is capable of providing safety to the user by triggering emergency messages in no network zone.

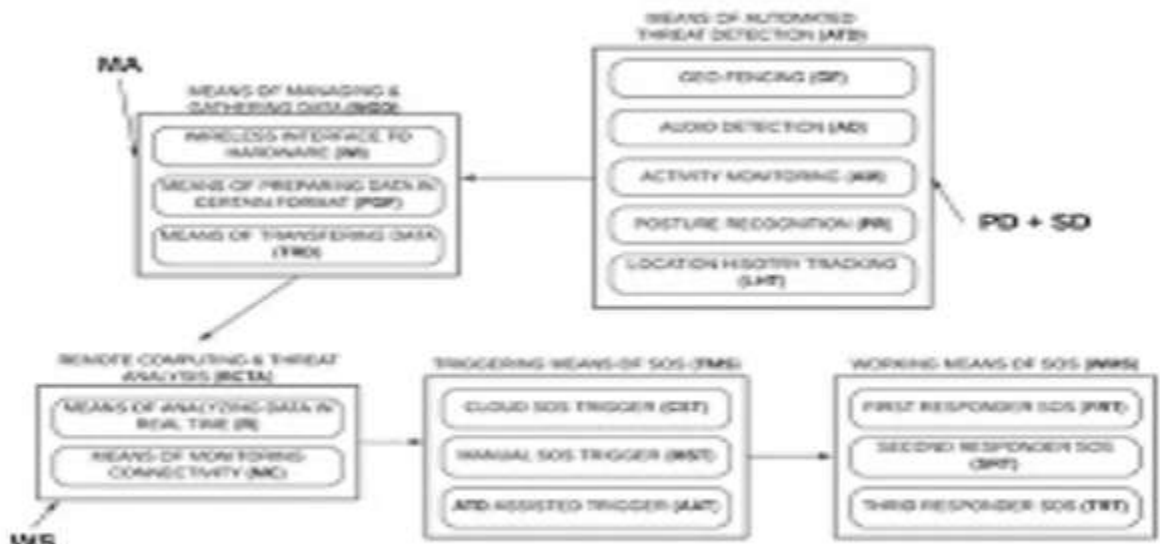


Fig. 1

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121055860 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ALCOHOL FREE AIR FRESHENER COMPOSITION AND METHOD OF PREPARATION THEREOF

<p>(51) International classification :A61L0009040000, A01N0065360000, A61K0047100000, B23K0020000000, A61L0009013000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Manish Wani Address of Applicant :Dr. Vishwanath Karad MIT World Peace University, School of Pharmacy, Kothrud Pune, S. N. 124, Paud Road, Kothrud, Pune-411038, Maharashtra, India -----</p> <p>2)Dr. Vishwanath Karad MIT-World Peace University Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Manish Wani Address of Applicant :Dr. Vishwanath Karad MIT World Peace University, School of Pharmacy, Kothrud Pune, S. N. 124, Paud Road, Kothrud, Pune-411038, Maharashtra, India -----</p> <p>2)Bhavyabhavna Singh Address of Applicant :A6-102/ Manjri Greens Annexe, Manjri Khurd, Hadapsar, Pune-412307, Maharashtra India -----</p> <p>3)Isha Vijay Ostwal Address of Applicant :C/10 Surya Prakash Society. Market Yard Road Opposite Nandanvan Hotel Pune-411037, Maharashtra, India. -----</p> <p>4)Dr. Amol A Tagalpallewar Address of Applicant :Flat no 1, Pooja Heights, Near Guruvihar Colony, Panzerpol, Bhosari, Pune- 411026, Maharashtra, India ---</p> <p>5)Dr. Akshay M Baheti Address of Applicant :Flat no 802, Passiflora Avenue, Near Marigold Avenue, Bavdhan, Pune- 411021, Maharashtra, India. ----</p> <p>6)Dr. Satish A. Polshettiwar Address of Applicant :Bhaskara H 501, DSK Vishwa, Dhayari. Pune- 411041, Maharashtra, India -----</p> <p>7)Dr. Anil Tukaram Pawar Address of Applicant :A/P: Tathawade, Taluka: Mulshi, Dist: Pune-411033, Maharashtra, India -----</p>
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(57) Abstract :

ALCOHOL FREE AIR FRESHENER COMPOSITION AND METHOD OF PREPARATION THEREOF Abstract The present invention provides an alcohol free air freshener composition consisting of a fragrance component in a range from 2% to 5% by volume; an emulsifier component in a range from 2% to 5% by volume; and a cow urine component in a range from 90 % to 96% by volume. The alcohol free air freshener composition of present invention does not use any propellant and thus safe to use for humans and for environment. The rose oil masks the strong odor of cow urine and has insect repellent properties. Figure: NA

No. of Pages : 10 No. of Claims : 8

(54) Title of the invention : AUTOMATIC OUT OF INVENTORY IDENTIFICATION OF DIFFERENT ITEMS IN CONVENIENCE STORES OR WAREHOUSES BY WARNING NOTIFICATIONS USING THE SMARTPHONE APP

(51) International classification :G06Q0010080000, G06K0019060000, G06Q0050280000, H04W0004500000, H04W0004600000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE,MAHARASHTRA,INDIA-411045 -----

(57) Abstract :

Supermarket is the place where customers come to purchase their daily using products and pay for that. So, there is need to calculate how many products are sold and to generate the bill for the customer. The primary objective of any retail segment is to sell inventories and to get notified if it is out of stock, so if you do not know when, where they might be & what you have, you will not sell something. One has to have a knowledge what stock management is & how to use it to convert your retail store. The management of store inventories is what keeps the whole organization in order. It is the collection of systems & software you use to keep track of stock in your shop. It may sound like an easy mission, but there is a lot of knowledge to handle your stock. Here, we have proposed a system to have a count on our stock details through embedded technology.

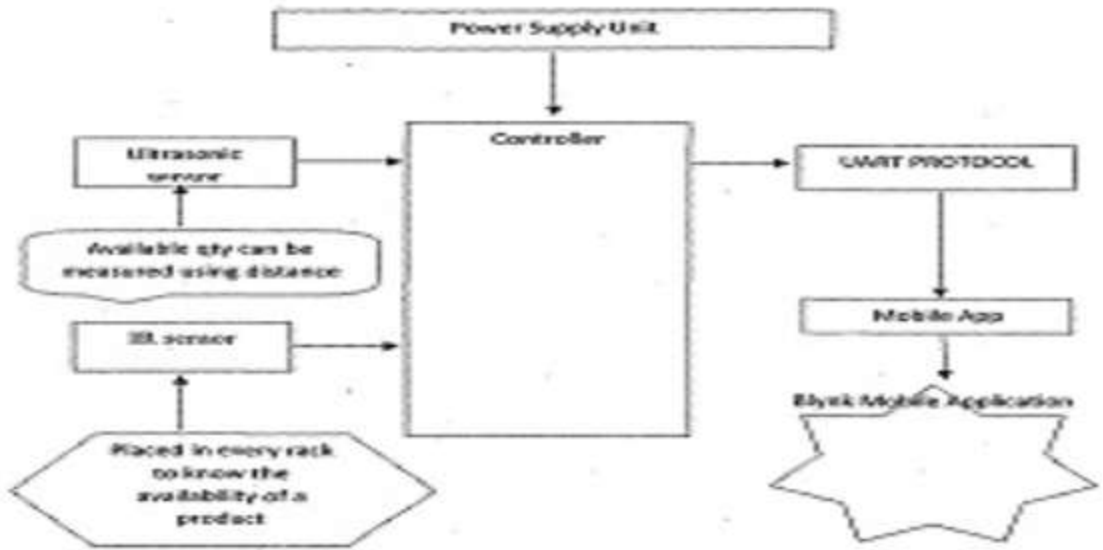


Figure (4) shows the Block diagram of proposed system

(54) Title of the invention : A NOVEL ISOLATION PROCESS OF POTASH FROM SPENT WASH

(51) International classification :C05B0007000000, C05C0005020000, C01D0009000000, C05F0005000000, C02F0003340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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 Name of Applicant : NA
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 Address of Applicant :A-902, Aaryan city, Behind Vandematram icon, Vandematram city, Gota , Ahemdabad, Gujrat, India – 382421. -----

(57) Abstract :

ABSTRACT A NOVEL ISOLATION PROCESS OF POTASH FROM SPENT WASH The aim of present work is to isolate potassium from raw spent wash and biomethanated spent wash which is generated during molasses based alcohol distilleries. The process involves potassium recovery through precipatation technique to produces potash fertilizers such as potassium sulfate, potassium nitrate and potassium phosphate.

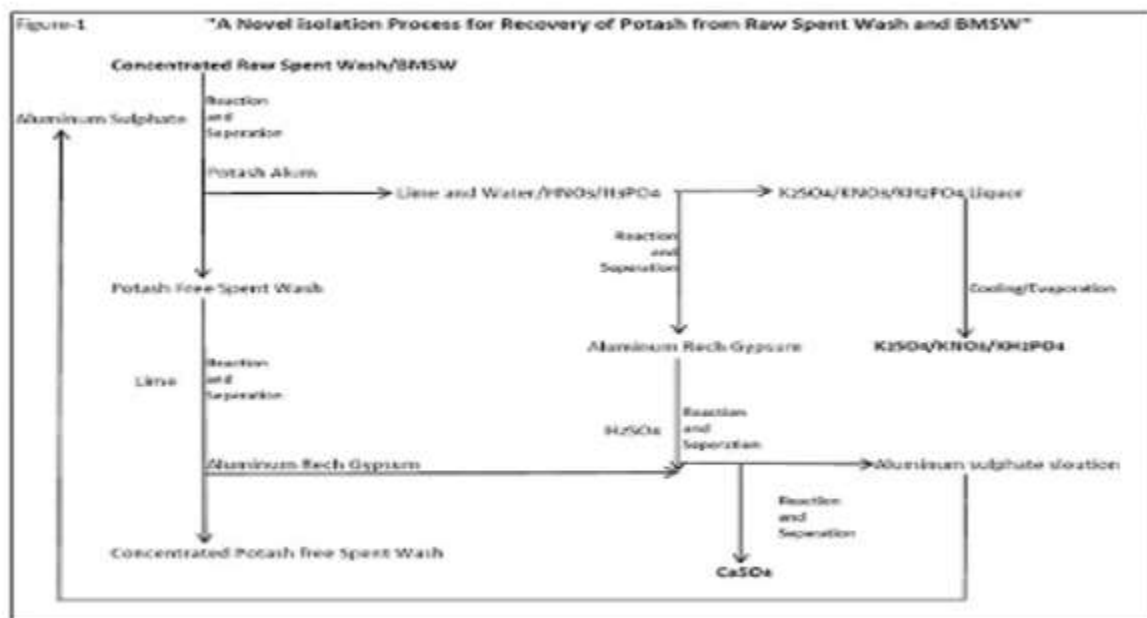


Figure: 1

No. of Pages : 22 No. of Claims : 6

(54) Title of the invention : SUPER 'X' ROLL CUTTER.

(51) International classification :B65H0035000000, A61F0013150000, C03B0037160000, B26D0003160000, B26F0001380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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NAGAR,MUDHALWADI,Tq.PAITHAN,AURANGABAD,
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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

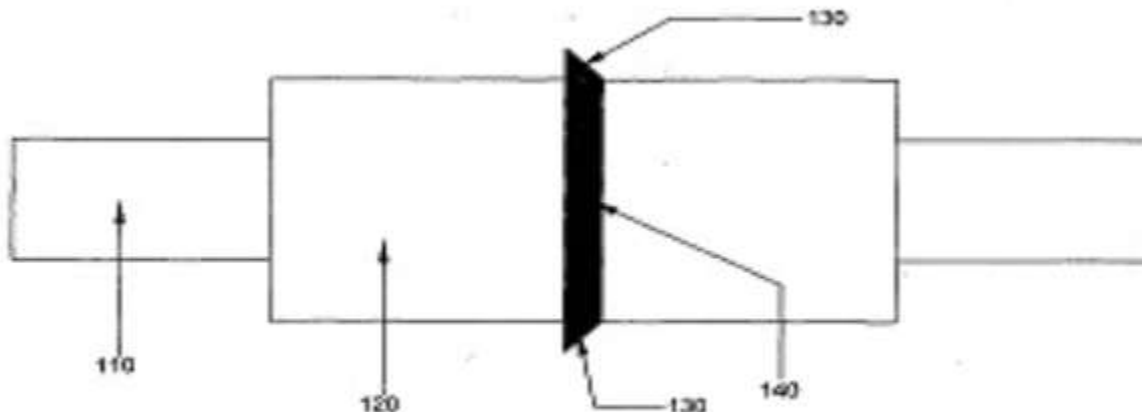
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Address of Applicant :HANUMAN

NAGAR,MUDHALWADI,Tq.PAITHAN,AURANGABAD,
MAHARASHTRA, INDIA - 431 107. -----

(57) Abstract :

The idea of Super 'X' Roll Cutter came to mind. We made the drawing of the Super 'X' Roll Cutter. So that, if the hot iron used in the production, is Converted into two parts. The two products of the same size can be produced, if special type of toothpick is mounted on two iron rolls. But we can demonstrate how to use our invention in steel factory and how to use it. We have been working for many years in many steel plants. Having good experience of actual work made us invent something different. Still, we are confident that production of steel factories will maximize with our invention.

FIGURE NO. 01. FIGURE OF IRON ROLL PART - 1

1. 110 -Machine Shaft General Size
2. 120 - M.S. Roll
3. 130 - Fixed Toothpick
4. 140 - Stainless Steel Welded Job

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : IONIZATION UNIT

(51) International classification :A61L0009220000, G01N0027620000, C01B0013110000, H01T0019000000, B03C0003410000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

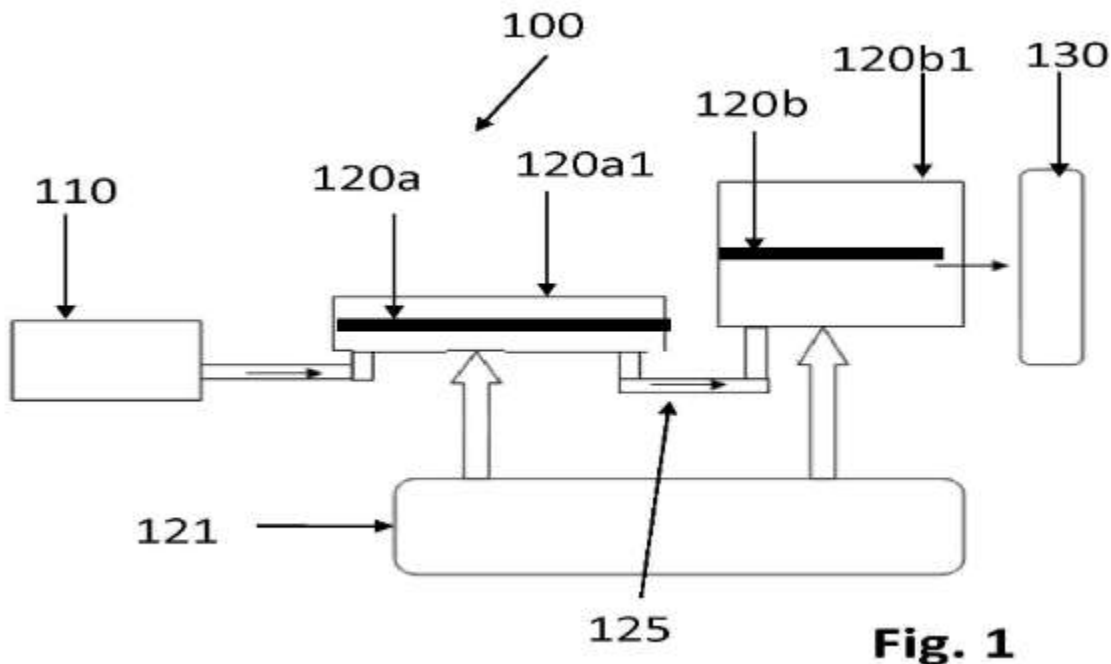
(71)Name of Applicant :
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 Address of Applicant : NA

(72)Name of Inventor :
1)GAWALI, Nilesh Pundlik
 Address of Applicant :1305, Moreshwar Heights, Plot No 9A, Sector 34, Kamothe. Panvel. 410209. Maharashtra. -----

(57) Abstract :

ABSTRACT TITLE OF INVENTION: IONIZATION UNIT The present invention discloses an ionization unit (100) configured to produce one or more types of Reactive Oxygen Species (ROS). The ionization unit (100) includes an inlet port (110), first electrode (120a), a second electrode (120b), one or more high voltage generators (121) and an outlet port (130). The inlet port (110) facilitates entry of a predefined gaseous composition into the ionization unit (100). The first electrode (120a) and second electrode (120b) are maintained at a first and second set of ionization parameters respectively. The high voltage generators (121) are operationally coupled to the first electrode (120a) and the second electrode (120b) to enable the electrodes (120a, 120b) to generate Corona discharge. The outlet port (130) produces a continuous stream of ROS. The first set of ionization parameters is different from the second set of ionization parameters. FIG. 1



No. of Pages : 28 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121058884 A

(19) INDIA

(22) Date of filing of Application :17/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : E-NEGOTIATOR CHAT BOT FOR E-COMMERCE SYSTEM

(51) International classification :G06Q0030060000, G06Q0030020000, G06Q0030000000, G06Q0010100000, B65D0088520000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr. ROSHAN RAJU
3)Dr. NILESH VITTHAL LIMBORE
4)Dr. HARSHAL KRISHNARAO RAJE
5)Prof.(Dr.)MADHULIKA GUPTA
6)Mr. RK KISHORE PATNALA
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 Address of Applicant : NA

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 Address of Applicant :ASSISTANT PROFESSOR, SHARADCHANDRA PAWAR INSTITUTE OF MANAGEMENT AND RESEARCH, SOMESHWARNAGAR (WAGHALWADI), TAL: BARAMATI DIST: PUNE - 412306, MAHARASHTRA. -----
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5)Prof.(Dr.)MADHULIKA GUPTA
 Address of Applicant :PROFESSOR Dr. D. Y. PATIL VIDYAPEETH'S GLOBAL BUSINESS SCHOOL AND RESEARCH CENTRE, NO. 87, EXPRESS BYPASS, GLOBAL BUSINESS SCHOOL & RESEARCH CENTRE SR, 88, BENGALURU - MUMBAI HWY, PUNE, MAHARASHTRA 411033 ----
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(57) Abstract :
 Negotiation is the progression of chat the peak probability of sustaining the requirements of both parties. Negotiation shields many features of the services have led to wide research in the range of automatic negotiators. Negotiation is a critical part of reality exchanges. From significant agreements to purchasing vegetables it goes about as one of key the components of breaking the bargain. Internet business Chat Bot System that is Price Negotiator framework makes the online business locales to have their works in proficient way. This E business Chat Bot System would assist with robotizing the web based selling and exchange in view of cost of item. Consumer loyalty is the significant worry for all the web based applications and chat-boxes assists them with working this major worry as clients needn't bother with sit tight for client chiefs to address their questions. Chat-boxes can settle a large portion of the client questions without the impedance of client chiefs. Exchange is a blend of both, phonetic furthermore, thinking issues. It requires an aim for something which needs to be displayed.

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : AI BASED SMART SOCIAL DISTANCE AND TEMPERATURE MONITORING DEVICE WITH CLOUD DATA.

(51) International classification :H04L0029080000, G06Q0010100000, G06Q0050000000, H04N0007180000, A61B0005010000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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 Address of Applicant : NA

(72)Name of Inventor :
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 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Spiritual intelligence is the science of human energy management that clarifies, and in the COVID -19 period, in which there is a panic-like scenario everywhere, and according to the World Health Organization, Social Distancing will be demonstrated to be the only cure, Spiritual Intelligence will be demonstrated to be the only cure. A new localization system based on sensors was developed in this research study to track persons' position in an outside setting. This revolutionary smart gadget uses artificial intelligence to keep a social distance while also identifying COVID 19 symptom patients and therefore ensuring safety. We came up with the idea for this new technology in these COVID-19 circumstances, when everyone is concerned about their safety. People on the roadside could usually see what was going on in front of them but couldn't see what was going on behind them. If someone is within a crucial range of six feet surrounding the individual, the gadget will inform him. The method is fairly accurate and can be extremely helpful in maintaining social distance. The sensor model that was employed is detailed, and the predicted distance estimation errors are investigated and modeled.

BLOCK DIAGRAM

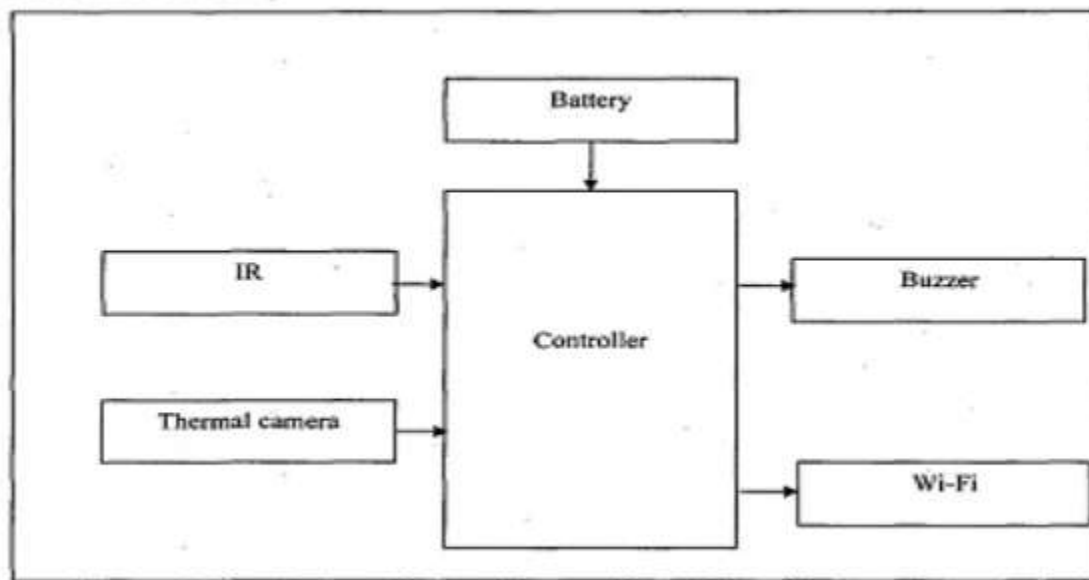


Figure (i) shows the Block Diagram

(54) Title of the invention : EMBEDDED SENSOR BASED HOME SAFETY SYSTEM.

(51) International classification :H04L0012280000, G08B0021040000, H01L0023310000, B60R0021013400, G01D0018000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

One of the main rooms in a house is the kitchen. The main thought to remember while moving with regards to the kitchen is security. Gas releases, uncontrolled flames, and outrageous temperatures should be generally distinguished and managed straightaway. The objective of this review is to make a model of a kitchen security framework utilizing the Internet of Things. The framework is comprised of three sorts of sensors and an Arduino UNO. Temperature sensors are utilized to screen temperature, IR Flames sensors are utilized to identify fire, and MQ-6 sensors are utilized in the kitchen to recognize gas spills. The yield of the sensors is then associated with the Arduino, which will direct the exchange. In case of a gas release, an uncontrolled fire, or an over the top temperature increment, the hand-off goes about as a fan switch. Arduino will likewise turn on the alert and the drive in specific conditions, just as convey information to the laborer. The outcomes propose that the system might work as per the ideal choices.

BLOCK DIAGRAM

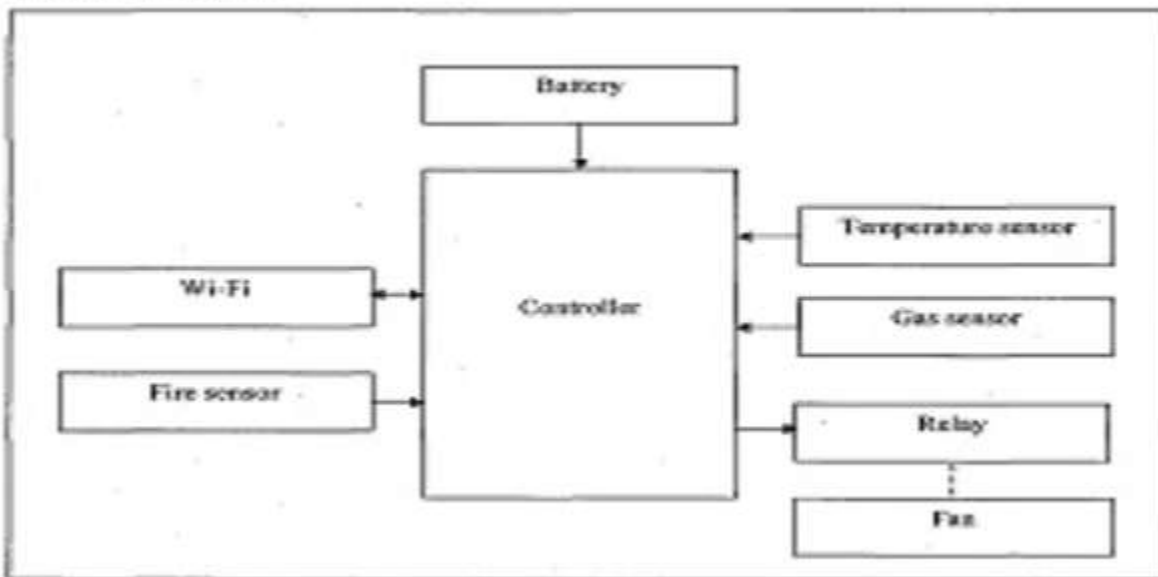


Figure (i) shows the Block Diagram

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : FPGA BASED AUTOMATIC STOCK IDENTIFICATION IN VENDING MACHINE.

(51) International classification :G07F0009020000, G06Q0020180000, G07F0011000000, G06Q0020220000, H04L0027340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

System components include an FPGA controller, an IR sensor, an Ultrasonic sensor, and a wifi module linked to a smartphone app. The materials will be accepted by an ultrasonic sensor with a large detection range. The smartphone app uses IoT network connectivity to send the messages. The vehicle's parking position is detected using an infrared (IR) sensor. In our nation, allotment and invoicing of parking spaces are currently done by hand. You'll need employees, and billing difficulties might come up. In addition, the stock will be optimal if the unit is manually raised. We actively maintain the presence of stock by integrating with various sensors in order to identify the availability of goods. This makes the job of the supply chain management staff a little easier, and inventory levels are kept stable.

BLOCK DIAGRAM

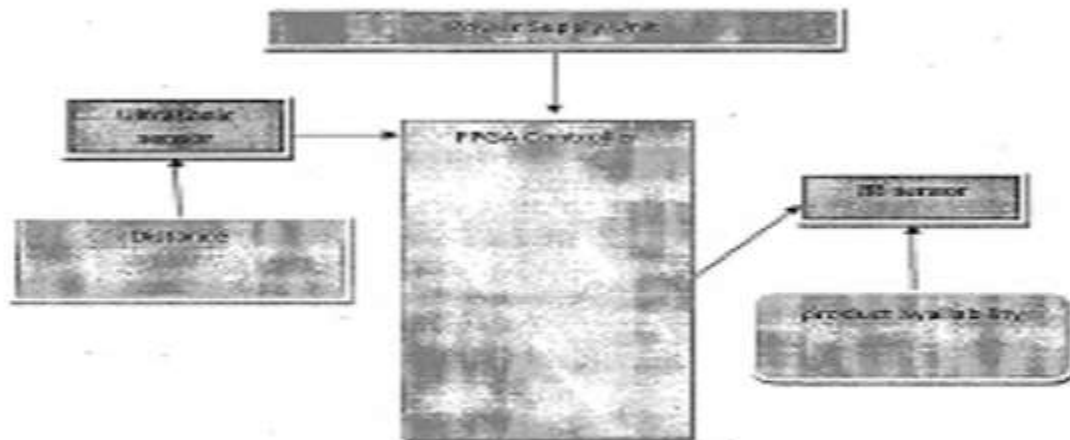


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : ADVANCED TECHNOLOGY BASED HIGH WAY ROAD CLEANING ROBOT.

(51) International classification :E01H0001080000, F21Y0115100000, H04W0084040000, A23L0033000000, B25J0009160000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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Name of Applicant : NA
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(72)Name of Inventor :
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 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Cleaning is a necessary task in almost every location. This is sometimes simple and sometimes complex. Occasionally we assign people to clean and pay them, and sometimes cleaning is necessary in locations where the presence of live beings is harmful, so we cannot assign living beings everywhere. Some sites have vast floor spaces, which need the use of more than one person for cleaning, necessitating the use of some technology to compensate for these issues. A robot has emerged as a result of scientific development, but it is still operated by humans. More technologies are required to bypass this manpower restriction. Highway roads are the most often utilized method of transportation in the modern age. Cleaning a highway is not just time-consuming, but also exhausting. It is especially tough for cleaning staff to perform highway lane maintenance since the operation must be done continually. The number of everyday employees participating in cleaning the main road is increasing, and it is unsafe for them. We wanted an autonomous system that cleaned itself without the need for human involvement in order to save time. We also considered ways to assist persons with physical impairments. We were conscious that we required a cleaning system that could function in line with what we said, thereby assisting a physically challenged person.

BLOCK DIAGRAM

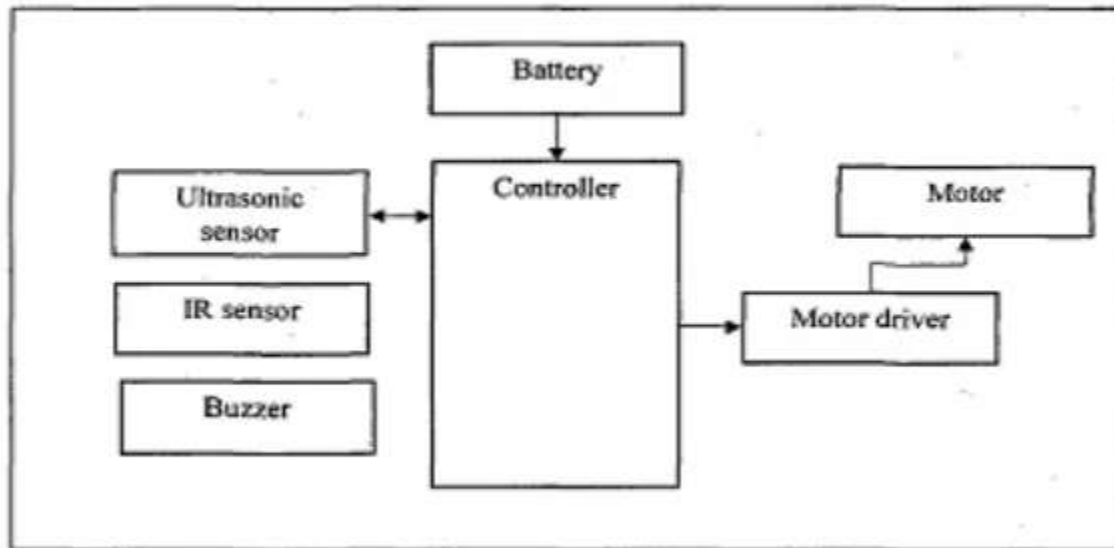


Figure (i) shows the Block Diagram

(54) Title of the invention : MACHINE LEARNING BASED VEHICLE SPEED CONTROL DEVICE FOR RESTRICTED AREAS.

(51) International classification :G06N0020000000, H04M0001725000, H04B0007060000, F02D0031000000, G06N0003080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

This concept aims to automatically manage the speed of any vehicle in cities as well as in restricted locations such as schools, parks, hospitals, and other speed-limited zones. Nowadays, in such a fast-paced society, everyone lacks self-control. Such individuals use cars at a high rate of speed. As a result, the cops are unable to keep track of everything. This document explains how to manage speed without endangering others. During such situations, the driver has no control over anything; controls are taken automatically through the use of an electronic system. We are utilizing RF to indicate the speed restriction regions in this project, and it is located in front and back of the restricted zones. Inside the car, an RF receiver is installed. The speedometer of the car is used to determine speed. The speed is compared by the controller. If it exceeds the speed limit, the controller warns the driver and takes autonomous control. If they do not react to the message, the information, together with the vehicle number, is sent over GSM to the nearest police station, and the penalty is collected at the nearest toll gate.

BLOCK DIAGRAM

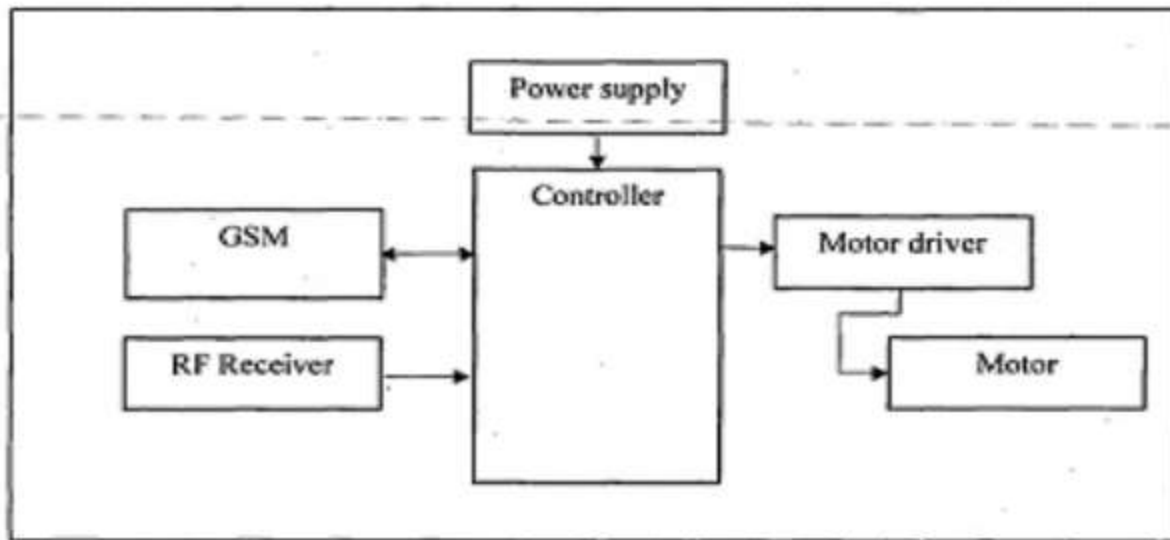


Figure (i) shows the Block Diagram

(54) Title of the invention : SMART BUS SEAT VACANCY IDENTIFICATION SYSTEM WITH CLOUD DATA BASE

(51) International classification :B60N0002240000, G06K0009000000, B60N0002680000, G08G0001140000, G06Q0010020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

The world has improved as a result of a greater number of people having access to better living conditions. In this era of technological advancement, technology make the goal of survival simpler to achieve. The Internet of Things is an interconnected technology that is used to send data to the appropriate individuals via physical objects that are integrated with software, sensors, electronics, and so on. IoT empowers smart cities, transportation, and industries with new ideas for growth. The suggested technique is used in the transportation industry to effectively manage empty seats, notably on tour buses. The unfilled seats may occur as a result of a last-minute cancellation, people missing the bus, or passengers who do not cancel their ticket even after deciding not to travel. Currently, seat distribution for travelers is largely done digitally, but when it comes to unoccupied seats, the ticket checker must allocate it manually. The system's aim is to use sensors to determine if all booked seats are filled or not, and it instantly sends the signal to a centralized server, allowing that same seat to be booked again. As a result, travelers who intend to travel at the last minute will be able to buy tickets online from the forthcoming boarding stations.

BLOCK DIAGRAM

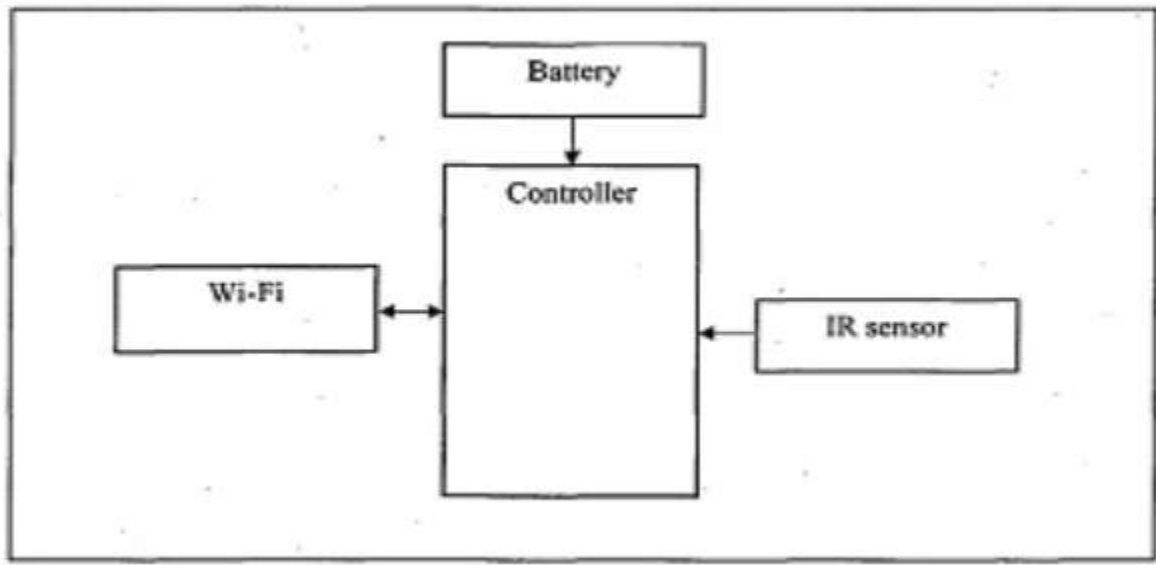


Figure (i) shows the Block Diagram

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121059241 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DEVELOPMENT OF A DRIVER SAFETY ASSISTIVE SYSTEM FOR PREVENTING ACCIDENTS USING TENSOR FLOW ALGORITHM WITH RASPBERRY PI

(51) International classification :A61K0036730000, G08G0001096800, H02J0003060000, G08G0005000000, G05B0019042000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RAMAKRISHNAN RAMAN

Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Nowadays, many accidents occur on roads as a consequence of increased traffic and, when combined, as a result of reckless driving by drivers. Many accidents occur as a result of the driving force's or the single person's ingestion of alcohol. As a result, drunk driving is a major cause of accidents in the majority of countries throughout the world. Lots of accidents are occurred due to driver's careless, the system implemented to ensure the driver's safety while driving. Here, we used alcohol sensor to detect the driving person whether consume alcohol or not, if he consumed alcohol the ignition will not start and active to drive. The camera module is used to detect the drowsiness of the driver. These systems must be required to be installed inside the vehicle. Furthermore, appropriate car safety belt monitoring is integrated; if the driver's seat belt is activated, the vehicle is ready to drive; otherwise, the vehicle is not ready to drive. In this case, we used the speech module to notify the driver of the circumstances.

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : DESIGN OF A SMART ADVERTISEMENT TALKING BOT IN SHOPPING MALL BY USING DEEP LEARNING AUTOMATIC GENDER CLASSIFICATION METHOD

(51) International classification :G06K0009620000, G06Q0030060000, G06K0009000000, G06N0003040000, G06N0003080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

In this approach, we used the Raspberry Pi to build a talking bot. This talking bot was created only for advertising reasons. We used an ultrasonic sensor, a camera module with gender categorization algorithms trained on it, an acoustic speaker, and SD card-based audio sound storage in this. To detect persons in front of the standee, we use ultrasonic sensor, speaker, and a Memory card module. When the ultrasonic sensor detects that the audio is playing at the same time as the gender, which can be identified by the camera module, and all audio sound is saved in SD card, the SD card module is attached to the Raspberry Pi. In this approach, the ultrasonic sensor is used to locate the person, and the camera module is used to determine the gender. Both modules are linked to the Raspberry Pi. If it is a guy, the bot will play male advertising items available in the mall; if it is a female, the bot will play female advertising products available in the mall.

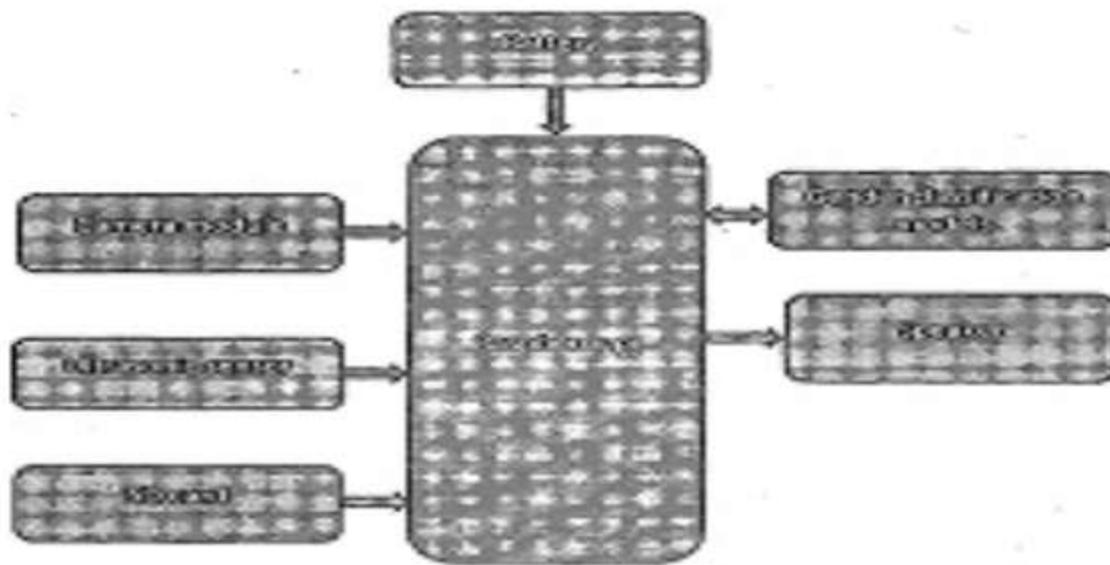


Figure (1) shows the Block Diagram

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : FPGA-BASED SECURE LOCKING SYSTEM USING AUTHENTICATION CONTROL SYSTEM

(51) International classification :G07F0007080000, H04L0029060000, G07C0009000000, B60R0025040000, G06F0021300000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Unauthorized access to any security system is prevented by using two-factor authentication, and this is one of the most influential and essential solutions for doing so. An inexpensive electronic locking system that uses two-way authentication to allow secure access to any assets or resources has been developed in this study. A user-owned key and a user-known key, approved via two distinct phases, are the only ways to open this lock, making it more secure than other locks now in use. Instead of requiring a physical key, as with traditional locks, this one works with an unlimited number of authorized users. This locking system gives you the freedom to add new customers or terminate current authorizations at any time safely and securely using this locking system. The suggested locking system's operating concept and hardware implementation have been shown using a functioning FPGA and GSM module in the Block Diagram.

BLOCK DIAGRAM

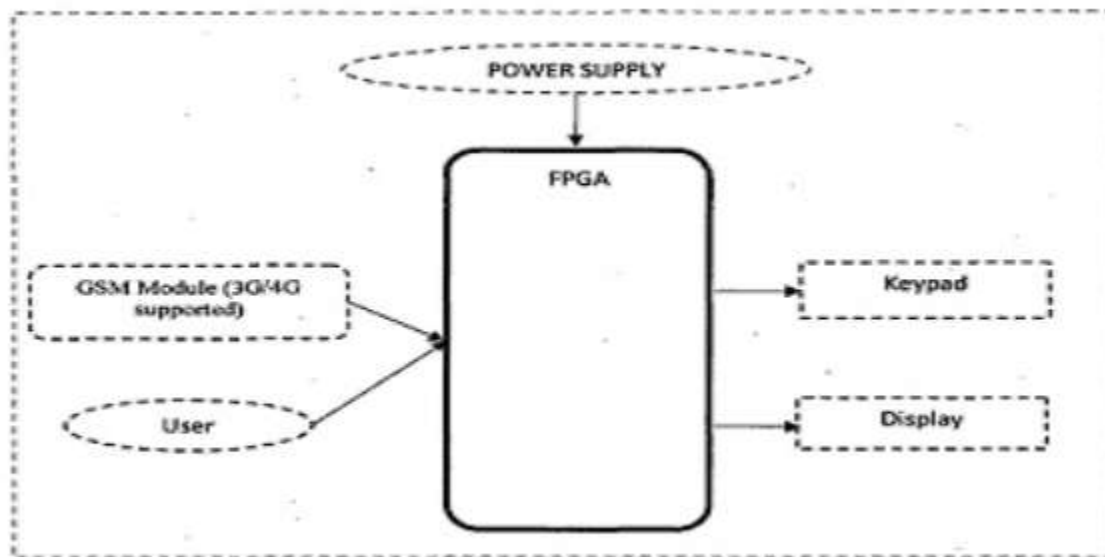


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : A SMART ROBOT FOR TEMPERATURE MONITORING AND SANITIZER DISPENSER IN PUBLIC PLACES

(51) International classification :A61L0009013000, A61L0009010000, B25J0011000000, A61B0005010000, A61Q0015000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Human health and comfort are frequently tied to the environment in which an individual spends a significant amount of time during the day. Ambient Intelligence advancements have facilitated the adoption of smart surroundings capable of detecting and reacting to human presence. Smart surroundings and Ambient Intelligence technologies are shaping the future civilization, in which energy efficiency and intelligent management are critical for long-term progress. With the integration of sensors and clever processing algorithms, mobile robots is also making an essential contribution to this advancement. This concept proposes the use of an Assistant Personal Robot as an autonomous agent for temperature, humidity, and brightness monitoring in human-populated regions. The multivalent capabilities of the robot allow it to acquire sensor data while exploring or executing specified activities and then validating human comfortability levels.

BLOCK DIAGRAM

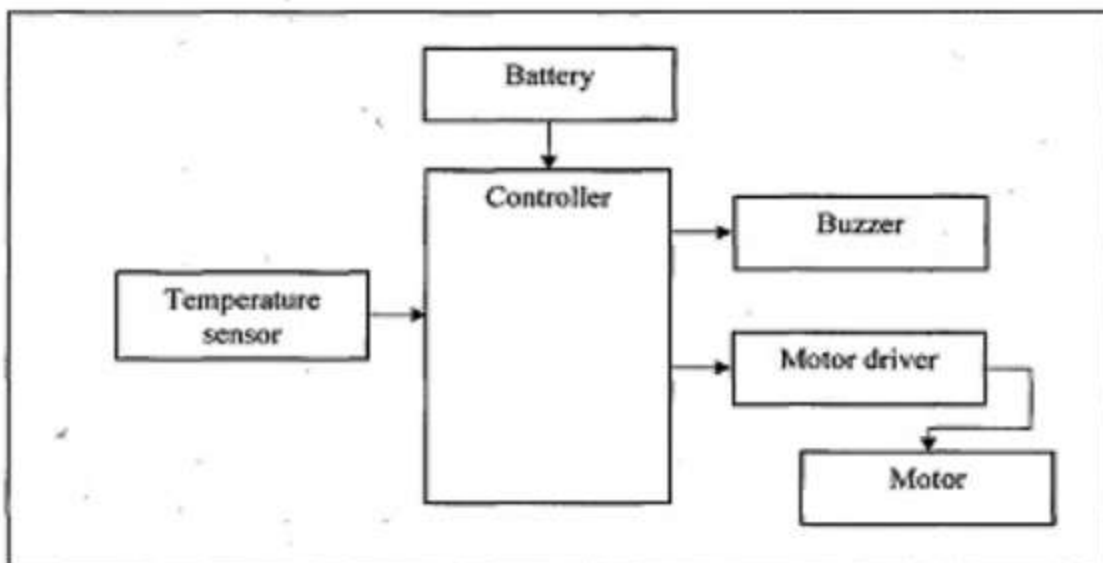


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : A SMART INCUBATOR SYSTEM BASED ON MACHINE LEARNING

(51) International classification :G06N0020000000, A61G0011000000, G06K0009660000, H05B0041392000, G05B0013020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

The term incubator refers to a device used to keep a newborn alive, particularly one who is sick or is born before the normal gestation period. A baby incubator is a closed appliance that provides a regulated environment for the care of preterm infants. Until recently, underdeveloped nations paid little attention to the care of newborn newborns. People are accustomed to the concept that a low-birth-weight infant will readily dye. Preterm Infant Incubator Alert System through SMS has been developed to provide protection and comfort to premature newborns, their parents, and medical professionals when the premature baby is in the incubator room. When the temperature and relative humidity are not in compliance with a predefined value, the system quickly sends a warning message to the destination cellphone number and notifies the caregiver about the presence of a newborn to avoid theft using a load cell. The mechanism takes 8 to 25 seconds to transmit a warning message to the destination mobile phone number.

BLOCK DIAGRAM

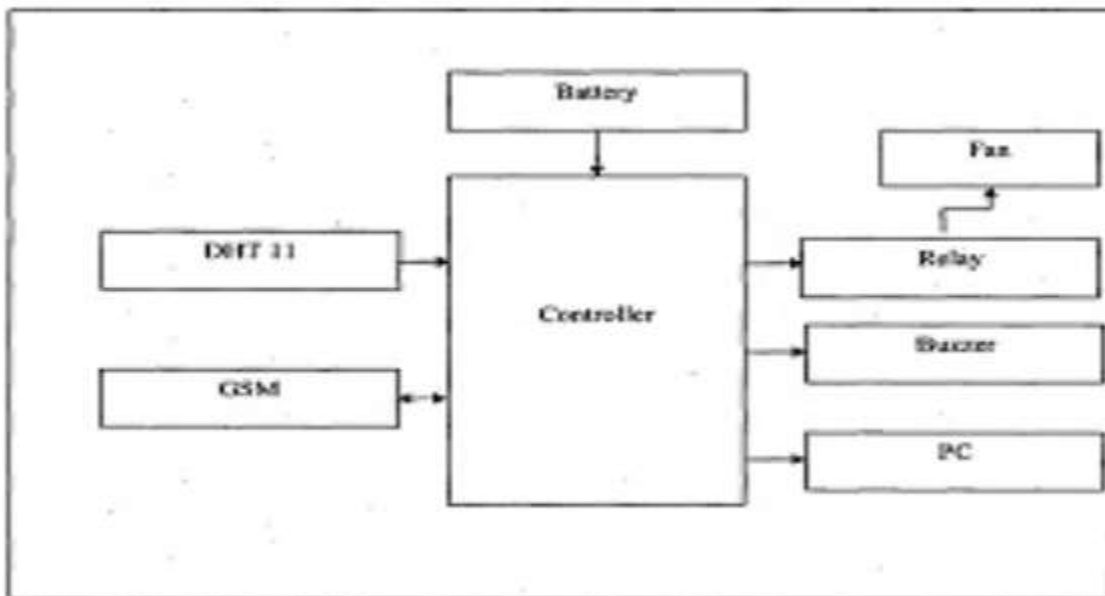


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : MACHINE LEARNING BASED ENVIRONMENT POLLUTION MONITORING SYSTEM

(51) International classification :G06N0020000000, G06N0003080000, B25J0009160000, G06N0003040000, G06N0005000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

The development identifies with a framework and a strategy for air contamination checking, explicitly a sort of air contamination reconnaissance framework dependent on remote sensor organization, including numerous observing focuses being associated with checking data getting terminal remote broadcast communications situated at various area. The degree of contamination is expanding quickly because of variables like enterprises, urbanization, expanding in populace, vehicle use which can influence human wellbeing. Checking System is utilized to screen the Air Quality over a web server utilizing Internet. It will trigger a caution when the air quality goes down past a specific level, implies when there is adequate measure of unsafe gases present noticeable all around. The observing point incorporates majority of sensors, camera gadget and sunlight-based power supply contraption. The focal handling unit is associated by radio getting communicating module one with checking data getting terminal remote media transmission. Besides, it gives a basic survey of microcontrollers utilized for framework planning and difficulties in the improvement of ongoing checking frameworks.

BLOCK DIAGRAM

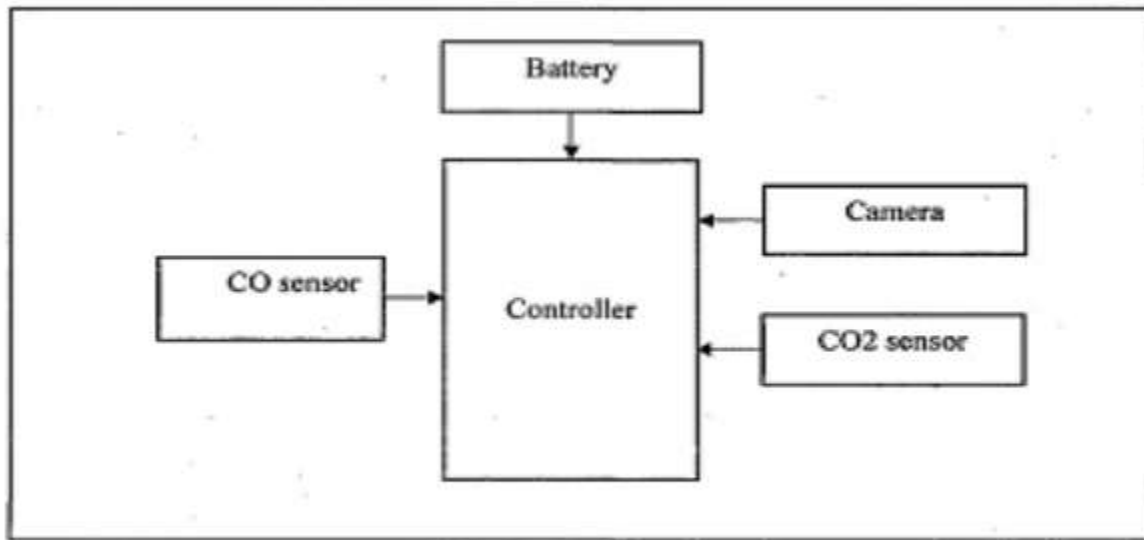


Figure (i) shows the Block Diagram

(54) Title of the invention : AN INTELLIGENT AUTOMATED TOLL BOOTH AND FEE COLLECTION SYSTEM USING IOT

(51) International classification :G07B0015060000, G06Q0020100000, G06Q0040000000, G06F0007533000, G07B0015020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Maintaining several toll booths is a difficult task. We propose an efficient card-based toll plaza device that is controlled via IOT in this work. The Cloud hosting stores all user account data as well as their balance. Every vehicle owner would have a RFID-enabled card with their account number stored on it. When a car arrives at a toll booth, our system will monitor the cards scanned. The system now connects to the web server to determine whether the card is legitimate and, if so, what the balance is. If the user balance is adequate, the user balance is deducted online, and the web system notifies the card scanning system that the user has been billed. When the system receives this signal, it activates a motor that opens the toll gate for that vehicle. To do this, the system is controlled by a microprocessor. The microcontroller connects to the internet through a Wi-Fi connection, and the system communicates with a web server to execute the online verification procedure. Additionally, the technology enables for the storage of data from all cars that pass through at specific time intervals for subsequent reference and monitoring.

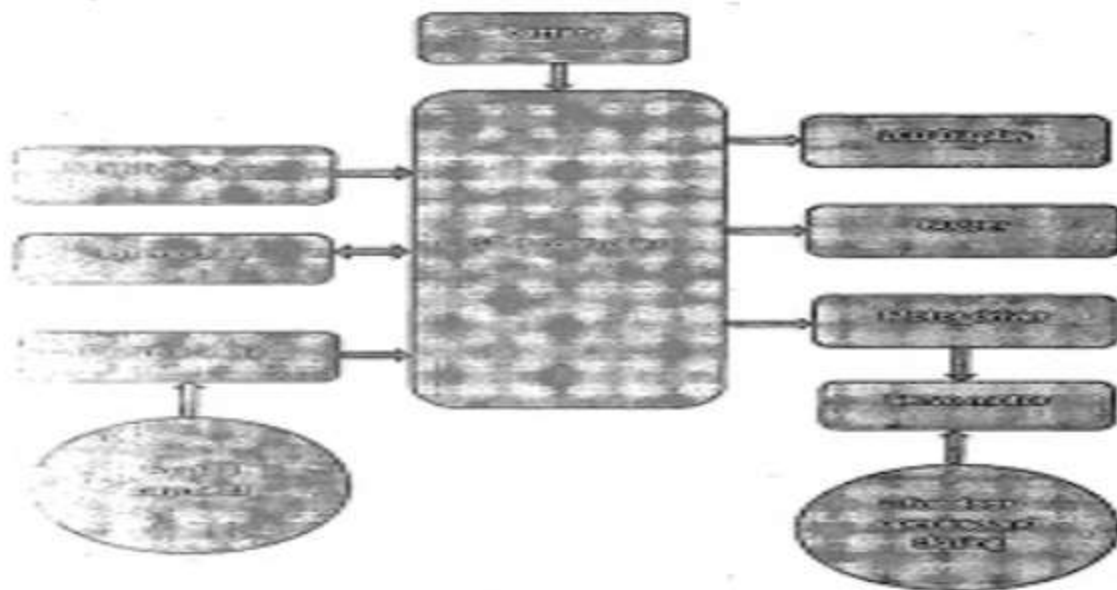


Figure (i) shows the Block Diagram

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : FIRE FIGHTING ROBOT BASED ON ARTIFICIAL INTELLIGENCE

(51) International classification :B25J0009160000, G06N0005020000, G06N0020000000, B25J0011000000, G06N0003000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

In an industry or some remote location, a fire could open a lot of possibilities. Electric leaks can, for example, cause massive damage to cotton mills, clothing, fuel storage, etc. That's probably the worst example that causes serious casualties in the regions surrounding it, as well as financial damages. The emerging approach to secure human lives and their resources and environment is robotics. The aim in this regard is to create an embedded machine fire fighting robot. Our principal objective is to build a robot burning model to reduce the human effort and to reduce the risk and heavy fire injury of manual burners. This model style is fully automatic with the sensor, dc and controller motors. It is a circuit-based hardware model that extinguishes the fire instantly in fires. This robot is moving in the direction where the force of the fire senses the image of the fire site incident and sends the image to a predefined mail ID that provides us a first glimpse of this incident.

BLOCK DIAGRAM:

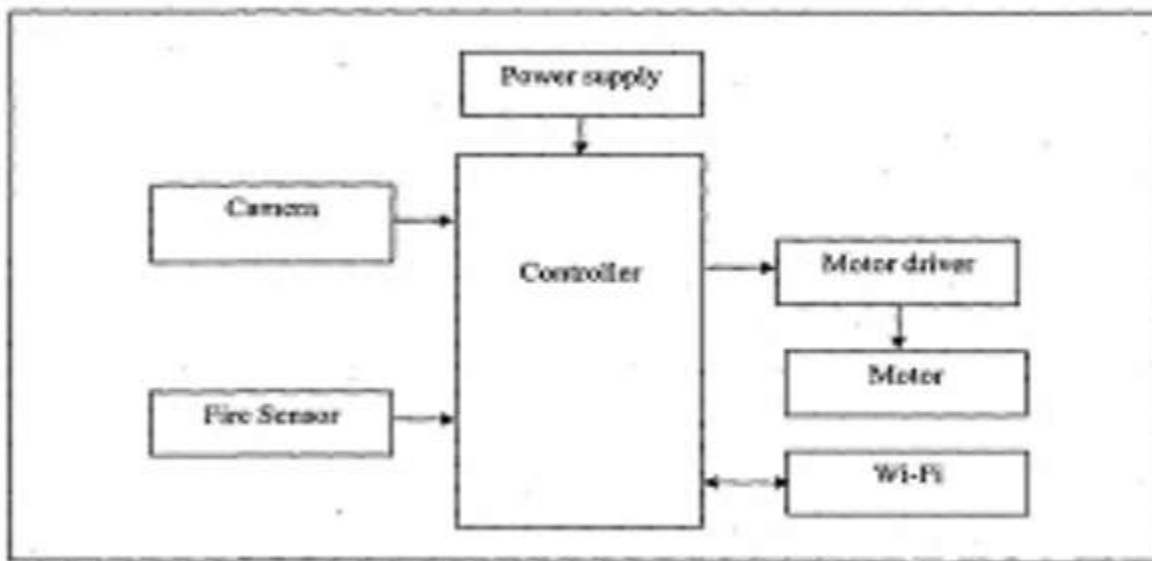


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : AUTOMATIC CONTACTLESS BELL SYSTEM FOR WORSHIP

(51) International classification :E04H0013000000, H01L0027115210, B05B0005040000, H01L0027115000, G06K0019070000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Due to crisis of loss on Indian economy, the government free the several set of lockdown systems to overcome the loss happened in covid lockdown. On government comments several malls, cinema and worship system were opened and maintaining several sets of rules to overcome the covid crisis. So, the people should wear masks and maintain social distance among them to prevent from covid infection. So, there is need for contactless system in country to prevent from infection. In this system proposed the automatic contactless ghanta system to avoid the contact between the persons in temple, because we didn't exactly know who is infected and who is not infected. Suppose if an infected person may ring the ghanta with his hands, which may lead to infect the other person. So, the system is proposed to maintain the contactless ghanta. The proposed system uses ultrasonic sensor for the detection human presence and servo motor for the rotation of ghanta.

BLOCK DIAGRAM:

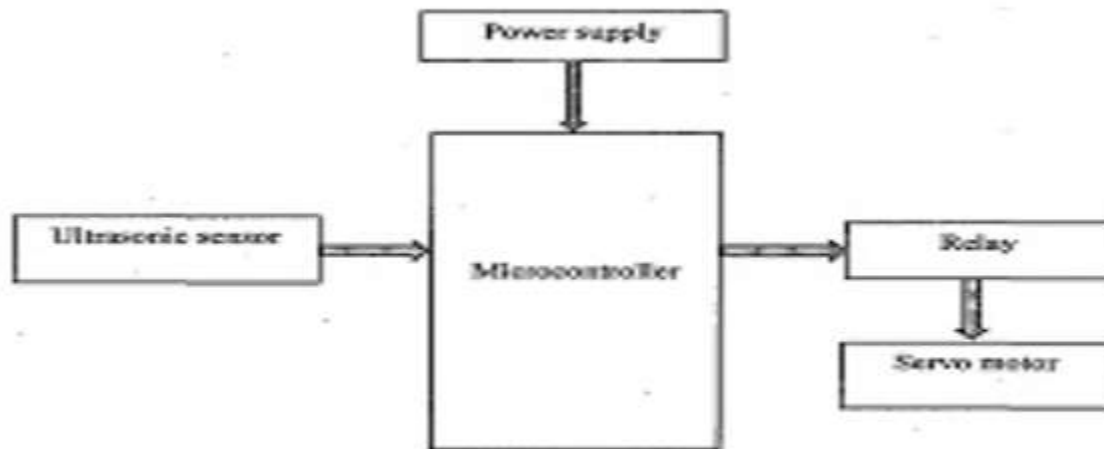


Figure (I) shows the Block Diagram

(54) Title of the invention : FACE MASK DETECTION SYSTEM USING MACHINE LEARNING AND IOT

(51) International classification :G06N0020000000, G06N0003080000, H04L0029080000, G06N0003040000, G06N0005000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Covid-19 is a serious pandemic disease declared by WHO. Professional doctors and health care units were having the serious situations all over the world. The government also takes severe step to get relief of the disease, they put lockdown over the countries. But whole shut down will leads to damage on country's economy. The situation is really out of control so, all the people of the country should wear masks and maintain social distancing to overcome this issue. The proposed system gives the face mask detection system using machine learning, this is the combination of both hardware and software to detect the person who is not wearing mask and alert the authority via IoT. By using training models and datasets we can detect the person who is not wearing mask in a crowded area. The video acquisition is achieved through controller and camera module. The proposed system gives the exact location of the person via GPS technology. This system is used in mall to detect the person who is not wearing mask.

BLOCK DIAGRAM:

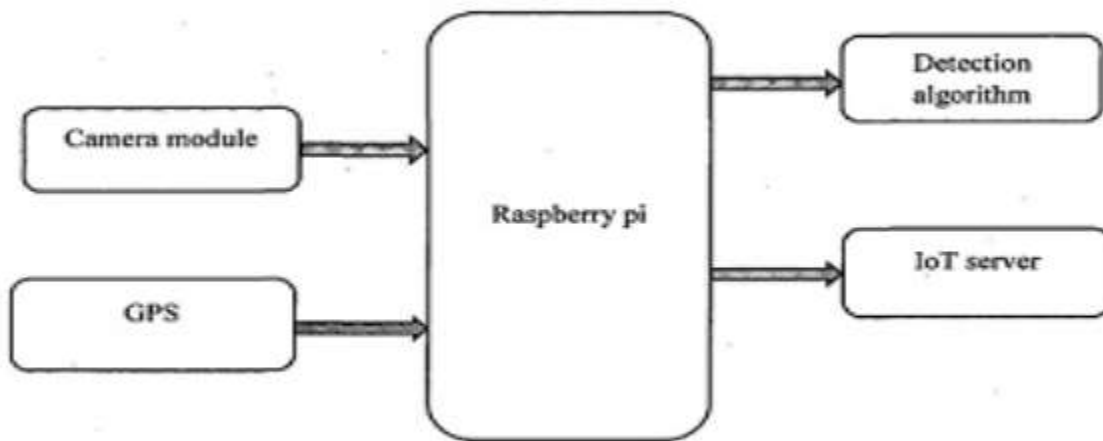


Figure (i) shows the block diagram

(54) Title of the invention : IOT BASED SMART LUGGAGE SECURITY SYSTEM

(51) International classification :H04L0029080000, H01Q0003260000, G06Q0010080000, G08B0025140000, H04N0007180000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Luggage is a place where the users can store items in transit. Since its inception, it has seen several style improvements. The baggage was conveniently transportable for any shift. Whenever the baggage had been upgraded, it improved its handling equipment, also became vulnerable to burglary, which then gave its users several problems. The luggage today is not compliant with people's present intellectual lives. A lot of baggage is clearing at airports and they are unaware of the restrictions on luggage. The key goal of that system is to make baggage safety user-friendly, sustainable, compact, inexpensive and effective. The luggage is built from inside to solve the above problems.

BLOCK DIAGRAM:

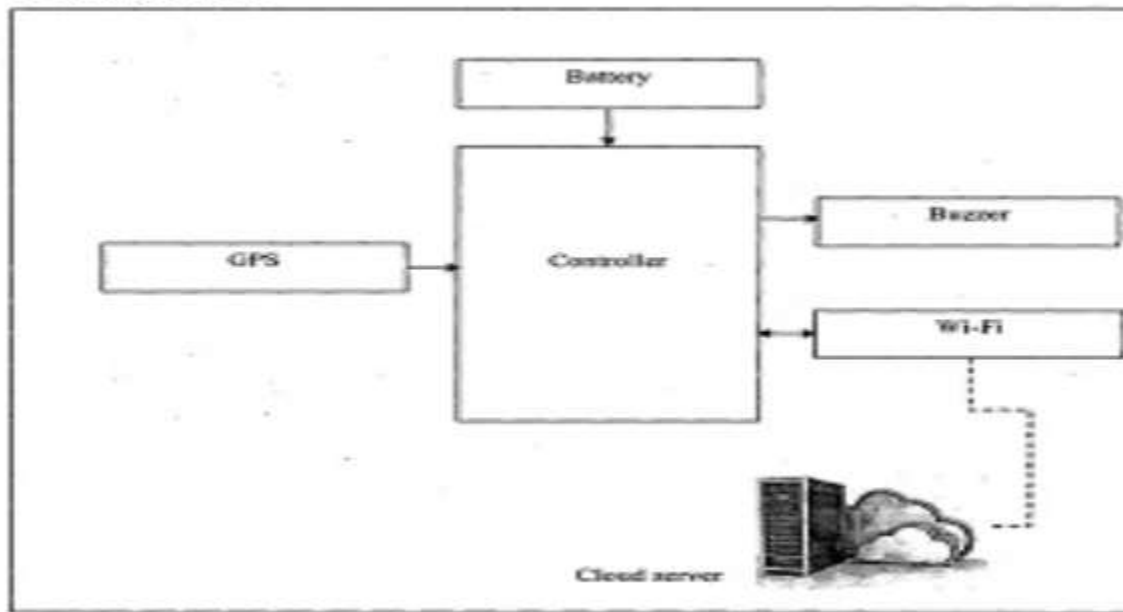


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : DESIGNING AN INTEGRATED FASTTAG SPEED TRACKING AND FINE DEDUCTION SYSTEM IN STATE HIGHWAYS

(51) International classification :H04Q0011040000, G11B0007085000, G08G0001017000, G06F0030300000, H03F0001020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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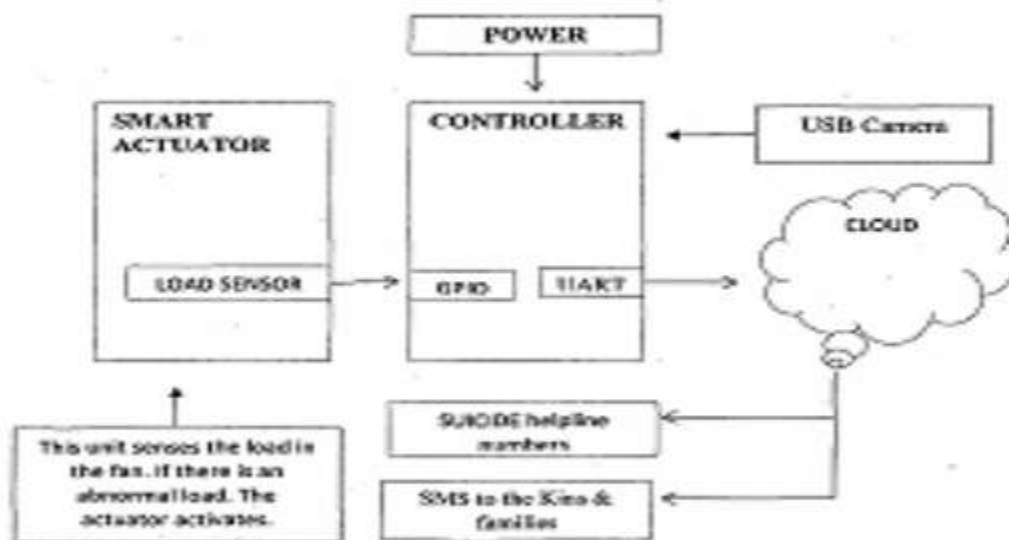
Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

This proposed method is about the more sensitive and innovative way of maintaining the traffic speed standards along with impartial toll distribution for every citizen passes through the state highway at a very high speed, giving prior importance to the human safety, security and egalitarianism. It's a novel replacement for the dull conventional traffic system using AI Techniques. In this, the time of passing of a vehicle is recorded at every instant through the camera are placed to deduce the fine amount from their account using fast tag platform and to record their speed. The time-and-speed thresholds between the checkpoints are then calculated and have been set up accordingly. The vehicles exceeding the thresholds are noted and are charged with appropriate penalty. This results in an impartial and symmetric way of tracking speed resulting on an effect over the fear-factor of drivers on taking up speed. This work aims to provide the Real time speed monitoring system and fair fine distribution system thus ensuring more reliability and quality to the Indian traffic system.

BLOCK DIAGRAM:



(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED SMART MIRROR TECHNOLOGY IN HOUSEHOLD FOR LIVE NEWS

(51) International classification :G06N0020000000, G06N0005020000, G06N0003080000, G06N0003020000, G06F0040300000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Appropriate time management is a vital component of growing day-to-day productivity. That time sheet has been achieved by the integrating technology into people's everyday lives. People now have access to the information they need to be efficient thanks to items like laptops, PCs, and smart phones. Despite the fact that successful associated research has been used to enhance profitability, someone's everyday to-do list now includes innovation. Instead of the other way around, software should conform to our plan. That's where the concept of a smart mirror came from. For years, smart mirrors have been envisioned as part of a larger trend of imbuing ordinary items with different smarts in order to better our experiences. The aim of the smart mirror concept was to effortlessly integrate technology into people's lives by placing it where everybody's practice inevitably coexists. The smart mirror's aim is to boost a user's productivity by saving them time.

BLOCK DIAGRAM:

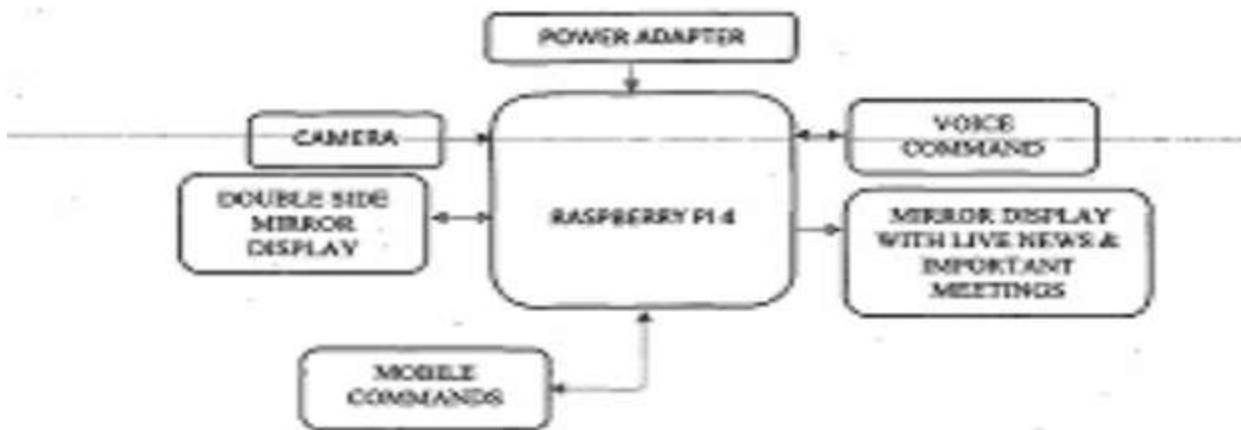


Figure (i) shows the Block Diagram

(54) Title of the invention : SMART SURVEILLANCE SYSTEM BASED ON ARTIFICIAL INTELLIGENCE

(51) International classification :H04N0007180000, G08B0013196000, G06N0005020000, G06N0020000000, G06N0005040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

In an industry or some remote location, a fire could open a lot of possibilities. Electric leaks can, for example, cause massive damage to cotton mills, clothing, fuel storage, etc. That's probably the worst example that causes serious casualties in the regions surrounding it, as well as financial damages. The emerging approach to secure human lives and their resources and environment is robotics. The aim in this regard is to create an embedded machine firefighting robot. Our principal objective is to build a robot burning model to reduce the human effort and to reduce the risk and heavy fire injury of manual burners. This model style is fully automatic with the sensor, dc and controller motors. It is a circuit-based hardware model that extinguishes the fire instantly in fires. This robot is moving in the direction where the force of the fire senses the image of the fire site incident and sends the image to a predefined mail ID that provides us a first glimpse of this incident.

BLOCK DIAGRAM:

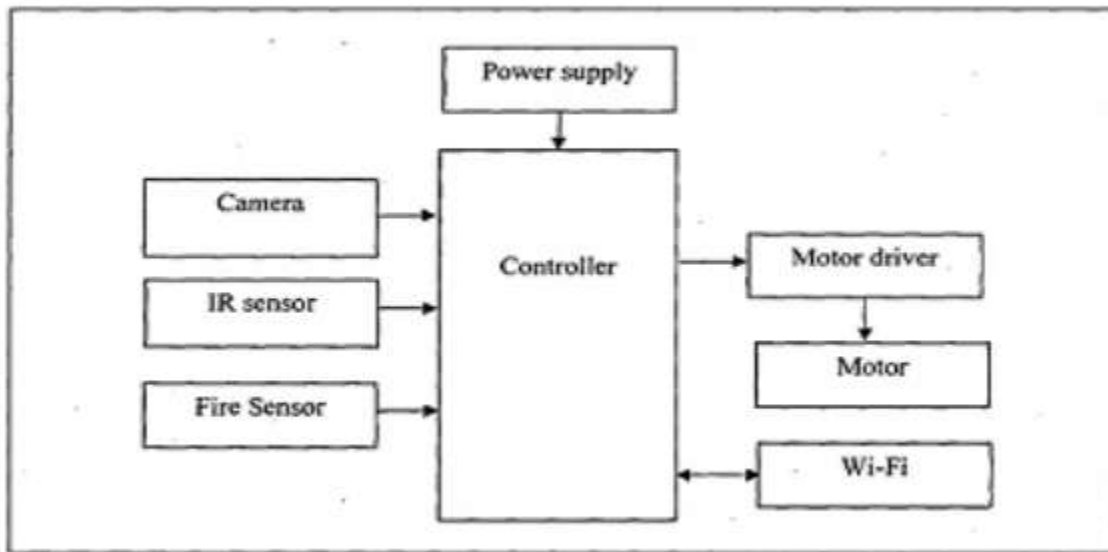


Figure (i) shows the Block Diagram

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : REAL TIME VEHICLE MONITORING SYSTEM USING AUGMENTED REALITY GLASSES FOR PREVENTING UNAUTHORIZED ACTIVITIES

(51) International classification :G02B0027010000, G06T0019000000, G05B0019042000, G08G0001000000, H04N0007180000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Augmented reality is a technology that will provide the user to see the immense real world with the digital information through the partially semitransparent glasses by which the user can see the both the real-world entity as well as the digital information that require. In today world most of the driver steal and does not loyal to the employer, so as to this project will be very useful for the employer to prevent the employee from theft and doing some unauthorized access of that vehicles. This proposed system is for totally monitor the real time location and monitor the vehicle specification include load weight, fuel level and some other parameter. As we observe the real time monitoring system of the vehicle, we can prevent the driver from abuse and scam along the trip and the employer can yield a profit well. The main advantage of the system is it will give the real time monitoring of the vehicle to the user.

BLOCK DIAGRAM:

TRANSMITTER SECTION:

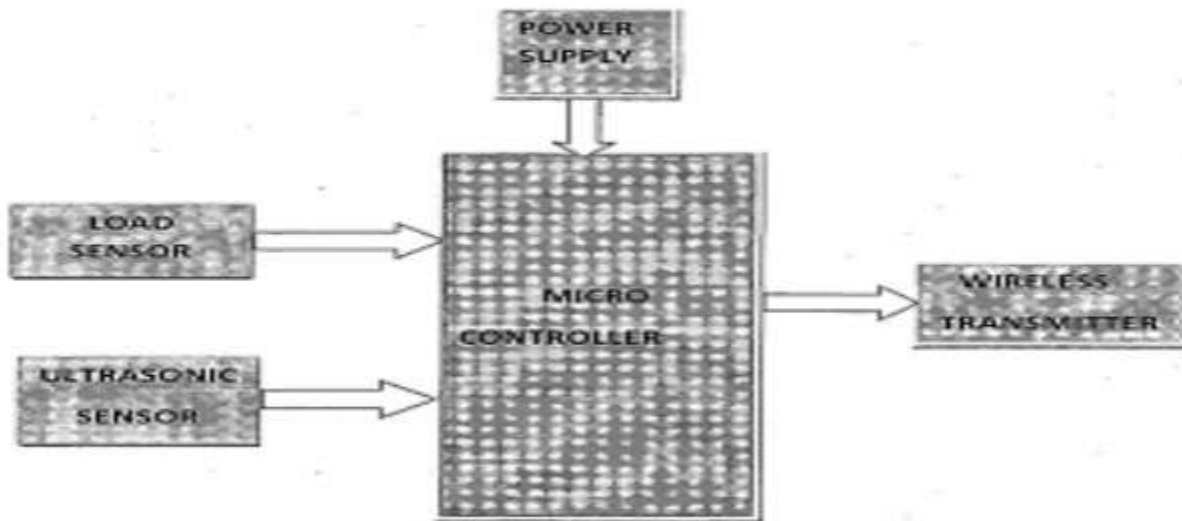


Figure (i) shows the Transmitter block diagram

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : INTERNET ENABLED AUTOMATED SHOPPING SYSTEM USING E-CART AND BILLING SYSTEM FOR THE GROCERIES WITH THE HELP OF RFID READER

(51) International classification :G06Q0030060000, H04M0015000000, G07G0001000000, A47G0029140000, G06Q0030040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

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1)RAMAKRISHNAN RAMAN
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(57) Abstract :

Internet has evolved so much, and so has the number of individuals of all ages who are drawn to electronic devices. Electronic equipment such as smart card readers, barcode scanners, and RFID scanners are becoming more common in many businesses. These sorts of equipment are also required in supermarkets. During the billing process, an employee scans the barcode of each product and bills it to the final. This procedure may be time-consuming, and it can be much more so during holidays, special deals, or weekends. To address this, a smart method of shopping at malls has been devised. Instead of a barcode, each product has an RFID tag. The RFID reader and LCD module are included in the Smart Trolley. When a customer sets a product on the trolley, it is scanned and the pricing, brand, and expiry date are shown. The entire amount will be applied to the final bill at the time of check out. The bill is saved in the memory of the microcontroller. When the transaction is complete, the IoT module sends the purchase details to the consumer.

BLOCK DIAGRAM

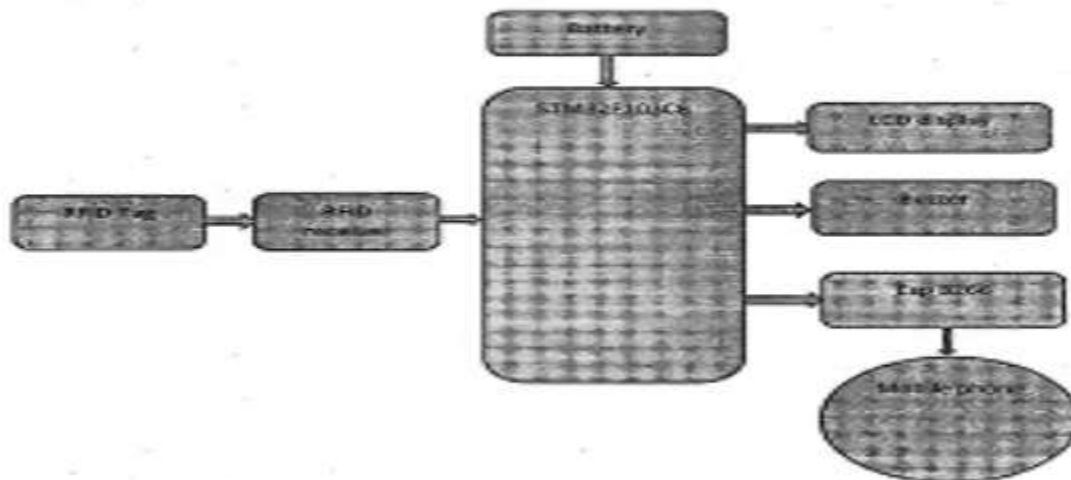


Figure (0) shows the Block Diagram

(54) Title of the invention : SYNTHESIS METHOD OF BIOINK FOR 3D PRINTING AND MOLDING OF VASCULAR GRAFTS

(51) International classification :B33Y0070000000, B33Y0010000000, B33Y0080000000, A61L0027380000, A61L0027500000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
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2)DR.KISHOR RAGHUNATH TARDALKAR
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(57) Abstract :

The embodiments here in disclose a method of Synthesis method of bioink for 3d printing and molding of vascular grafts. The blood vessels of porcine and or bovine and or goat blood vessels digested using 1-5 N NaoH or KOH at 37 to 90°C. The digested blood vessels slurry was adjusted pH to neutral. The synthetic polymer PVA was added to slurry, followed by PLA, followed by natural polymer gelatine. The composite bioink comprising blood vessels Extra cellular matrix (ECM) and PVA-PLA-Gelatine was fabricated. Physicochemical characteristics of bioink was analysed such as viscosity, spreadability and FTIR. 3D printing of vascular graft synthesized by created software files stepwise such as CAD, STL and G-code. 3D bio printer used to print vascular graft layer by layers. Deposition of bioink on stainless steel needle and glass capillaries vascular graft prepared. 3D printed/molded vascular graft was analysed such as swelling, surface wet ability, biocompatibility (in ovo and in vivo), histology, SEM and immunohistochemical study. The vascular graft showed no toxic effect in In ovo model and cells able to migrated in the 3D printed/molded vascular graft. In vivo biocompatibility of 3D printed/molded vascular graft transplant showed nuclei in HE, and recruitment of endothelial cells and smooth muscle cells in grafted vascular graft. Grafted vessels showed presence of collagen by masson's trichrome, glycosamino glycans (GAG) by alcian blue pH 2.5 staining. SEM images were revealed highly organized ECM and recellularization. Positive vWF, a-SMA, VEGF expression showed recruitment of endothelial cells, smooth muscle cells. This 3D printed/molded vascular graft can be applied for replacement of diseased or injured blood vessels in clinical applications in the future.



Fig.1: 3D molded assembly for printing of vascular graft

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : VEHICLE SAFETY SYSTEM BASED ON VEHICLE TO VEHICLE COMMUNICATION

(51) International classification :H04W0004460000, B60R0021260000, H04W0004440000, H04W0072040000, B60R0016023000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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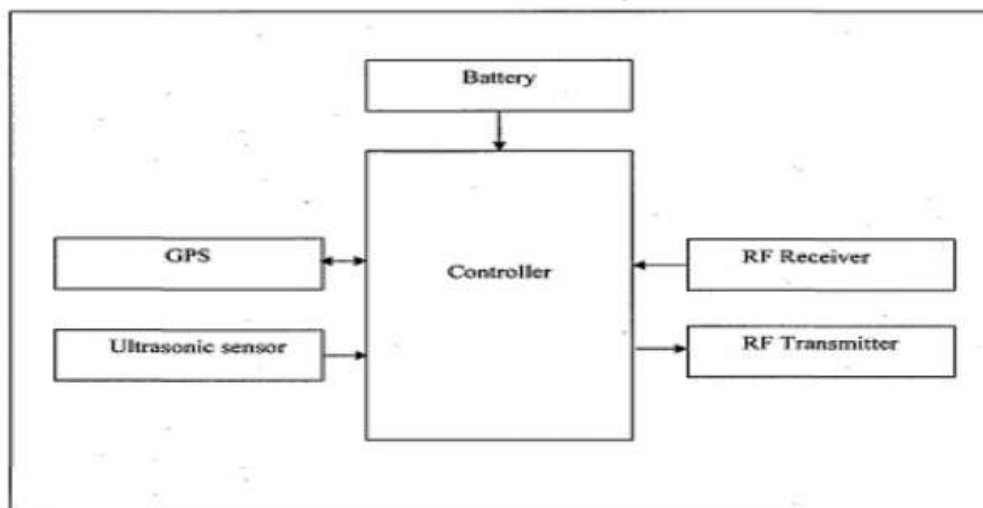
Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

The forthcoming innovation where machine to machine correspondence is conceivable by conveying the keen sensors on machine for brilliant collaboration. Web of things (IoT) gives a wide extension in numerous application areas where number of shrewd devices per individual is expanding dramatically with time. The car area is likewise one of the application spaces where vehicle can be made clever by utilizing IoT. The Vehicle Grid basically turns into an Internet of Things (IOT), which we call Internet of Vehicles (IOV), able to settle on its own choices about driving clients to their objections. Like other significant IOT models, the Internet of Vehicles won't only transfer information to the Internet utilizing V2I. It will likewise utilize V2V interchanges between companions to supplement on board sensor inputs and give protected and effective route. In this thought, we initially depict a few vehicular applications that influence V2V and V2I. Correspondences with foundation and with different vehicles, notwithstanding, can make protection and security infringement. In the second piece of the paper we address these issues and all the more explicitly center on the need to ensure area protection to versatile clients.

BLOCK DIAGRAM



- Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : SMART SAFETY SYSTEM FOR TWO WHEELER BASED ON MACHINE LEARNING

(51) International classification :G06N0020000000, B62J0027000000, B62J0099000000, G06K0009660000, G06N0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

According to government records, about 1.5 Lakhs died in traffic crashes. 17 people died every hour as a result of an accident on the road. The death toll is one-third that of traffic deaths, equivalent to 53 per hour. Any of the deaths was due to head injury of two-wheeler. The mandatory use of helmets will prevent this mortality rate. While the death rate of two-wheel drivers with no helmet was exceptionally high, the survivors of accidents must also be noted. A non-helmet rider was wounded in 91% of the cases of a two-wheeled collision, that is to say, died or suffered grievous injuries or mild lesions. In the end, the focus of the project is on bicycle safety. Trying to limit the likelihood of two-wheelers, robbery, and drunkenness and driving. The operators are instructed a lot by the traffic authorities. However, plenty do not follow these laws. This can be carried out using the 433MHz module for radio frequency. Work is simple, the RF is put in the cask and the RF receiver is mounted on a bike connecting to the microcontroller.

BLOCK DIAGRAM

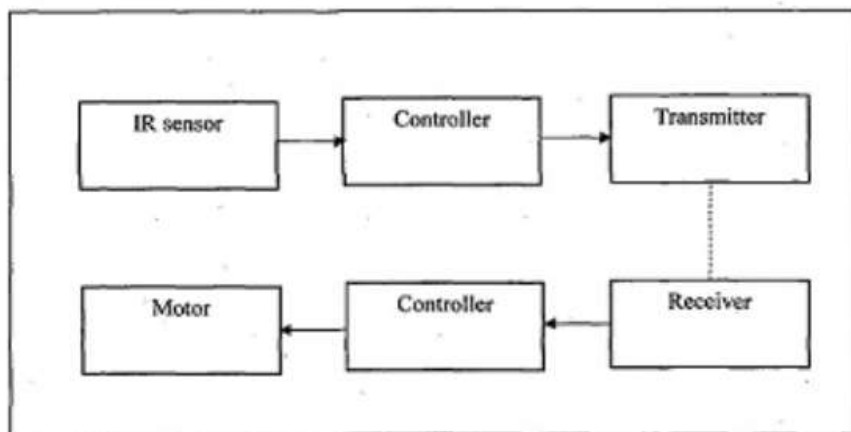


Figure (i) shows the Block Diagram

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : DEEP LEARNING BASED WEARABLE HEALTH MONITORING SYSTEM

(51) International classification :A61B0005000000, A61B0005020500, A61B0005024000, G06N0003040000, G06N0003080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

An addition to conventional patient care and their wellbeing is the Health Surveillance Scheme. This would minimize patients' hospitalization, preventive insurance costs, enhance the recovery process and eliminate diseases and improvement in lifestyles. Medical wearable's tracking consists of a portable wireless sensor interface, which is coupled with an application to view medical information through a physician. The use of a lightweight interface makes it very possible for patients to control their own health. Wearable technology could re-establish healthcare excellence while reducing treatment costs, such as patient recovery outside hospitals. In this innovation we have created a bracelet to detect cardiac disease. We used three stages for monitoring a health such as 1. Data acquisition 2. Data Processing and 3. Data Analysis. We capture patient data from a wearable bracelet consisting of a pulse sensor, a temperature sensor, and a vibrating sensor in the data acquisition stage. The captured data was then transferred to the cloud-based storage using the Pi Wi-Fi raspberry module during data collection. Finally, patient information is analyzed, i.e.s. Patient condition may be identified in a data analysis phase, as pathological or average, by using a deep MLPNN learning algorithm. Results of the analysis will be immediately forwarded to the psychiatrist and to the relationship if an unexpected disorder occurs. This invention will help physicians target patients and provide timely treatment to those at greatest risk and save lives.

BLOCK DIAGRAM:

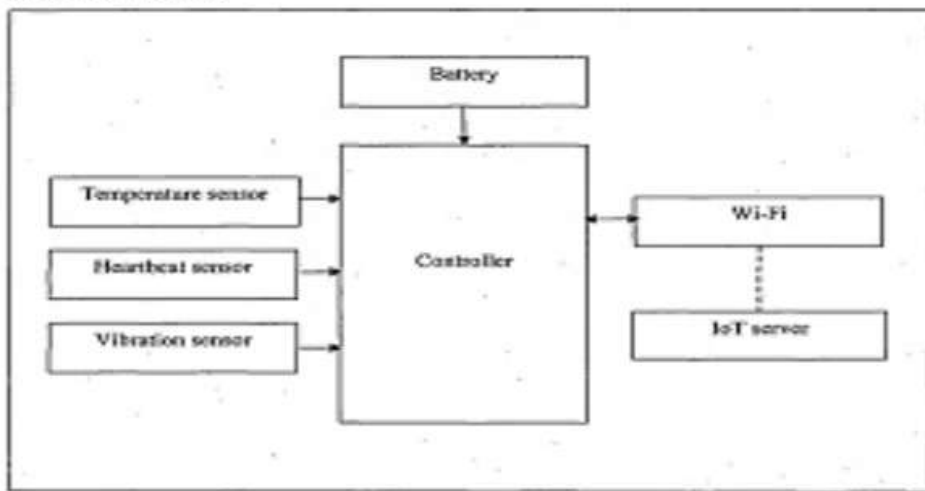


Figure (3) shows the Block Diagram

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : ADVANCED EMBEDDED SENSOR BASED LIBRARY AUTOMATION SYSTEM

(51) International classification :H04L0029080000, G05B0019042000, G05B0019418000, H01L0023310000, G01D0018000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Radio Frequency Identification is a new generation of Auto Identification and data collecting technology that uses radio waves to help automate the procedure and identify a huge -number -of-tagged books. The library would-benefit from an EM-based-Library Automation System since it would allow for faster transaction flow and provide immediate and long-term benefits in terms of traceability and security. We shall examine how EM technology is recommended for library automation systems in this study. EM technology will enable update operations for everyone involved with the library and a complete path for upgrading all library services, in addition to tagging books and other assets. The experimental findings of EM tag detection when affixed to various materials, as well as the influence on detection range, are also presented in this work.

BLOCK DIAGRAM

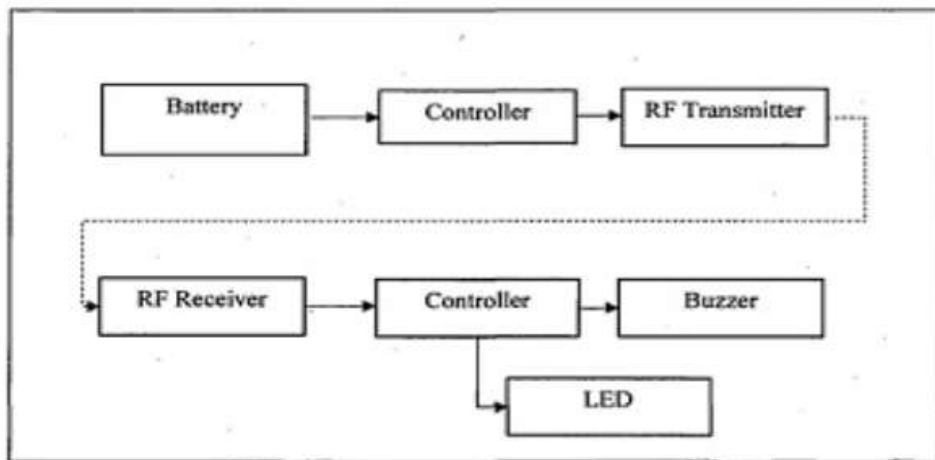


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121059576 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FPGA BASED RF JAMMER TO AVOID MOBILE USAGE IN FUEL STATIONS

(51) International classification :H04K0003000000, G06F0030340000, H04W0004029000, G06F0030331000, G01S0007380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Early in the new millennium, there were reports about mobile phone dangers at gas stations, based on a fuel station fire in Indonesia in 1999. The car's driver was believed to be on his phone when the pump caught fire. In the same way, many more similar stories are circulating widely on the internet. The American Petroleum Institute, the Australian Transport Safety Bureau, and the Australian Mobile Telecommunications Association have all released independent study findings claiming that a cell phone might cause a fire. For their research, they picked about 300 petrol pump fires from throughout the world. So, depending on the petrol station, we've recommended a micro jammer with a minimum perimeter of 30m-50m.

BLOCK DIAGRAM

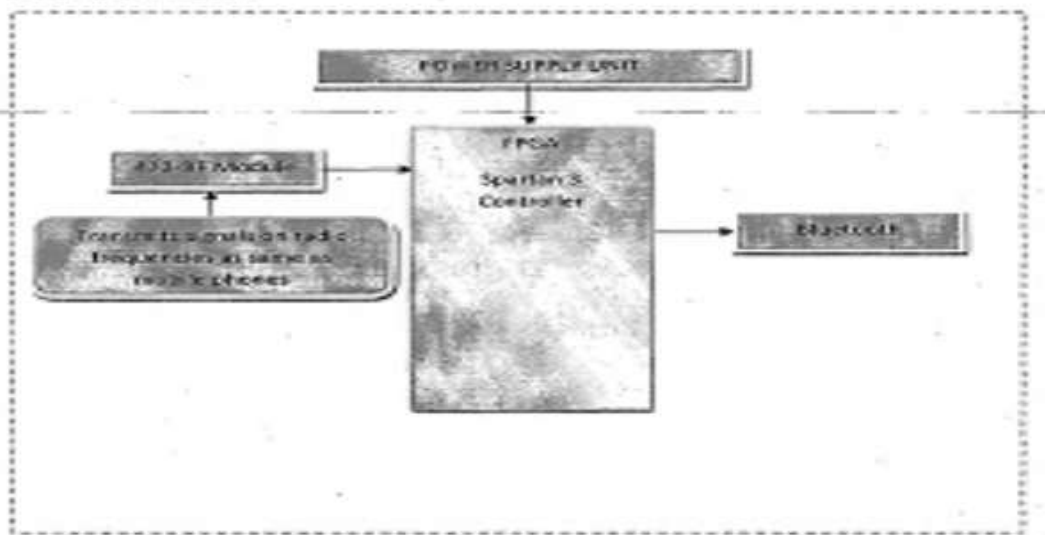


Figure (3) shows the Block Diagram

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : IDENTIFICATION OF DEFECTIVE GAS CYLINDER USING AI TECHNOLOGY

(51) International classification :F02D0041000000, G06T0019000000, C12Q0001688300, F02D0041080000, B29C0044340000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Gas cylinder play an essential part in everyday life since they perform well in hotels, rnalls,and bars, among other places. The creation of glass bottles, on the other hand, appears to be more complex, with a greater rate of manufacturing defects. To address this problem, FPGA spartan controller proposes an innovative solution. A gyroscope is utilized in this approach and is installed in each Cylinder; if any of the Cylinder collide, the gyroscope pushes the bottle back to its original position using a DC motor. All the data is being sent to the cloud server, and in the future, we will be able to reduce the fault at any cost.

BLOCK DIAGRAM

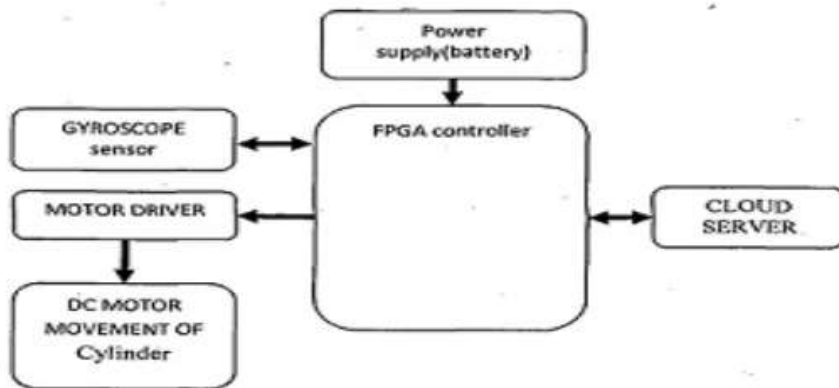


Figure (i) shows the Block Diagram

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121059581 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SMART RING BASED PATIENT HEALTH MONITORING SYSTEM

(51) International classification :A61B0005000000, B64D0045000000, A61B0005145000, A61B0005157000, H04L0012420000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

Most nations' life expectancy has steadily increased over the last several decades, owing to substantial advances in medicine, public health, and personal and environmental cleanliness. However, rising life expectancy combined with declining birth rates is anticipated to result in a huge elderly demographic in the near future, imposing considerable stresses on these countries' socioeconomic structures. As a result, developing cost-effective, easy-to-use solutions for older healthcare and well-being is critical. Remote health monitoring, based on non-invasive and wearable sensors, actuators, and current communication and information technologies, is a cost-effective and efficient option that allows the elderly to remain in their comfortable homes rather than expensive healthcare institutions. These technologies will also allow healthcare workers to track key physiological indications of their patients in real time, analyze health problems, and offer feedback from afar. We discuss and compare many low-cost, non-invasive health and activity monitoring devices that have been published in recent years in this study.

BLOCK DIAGRAM

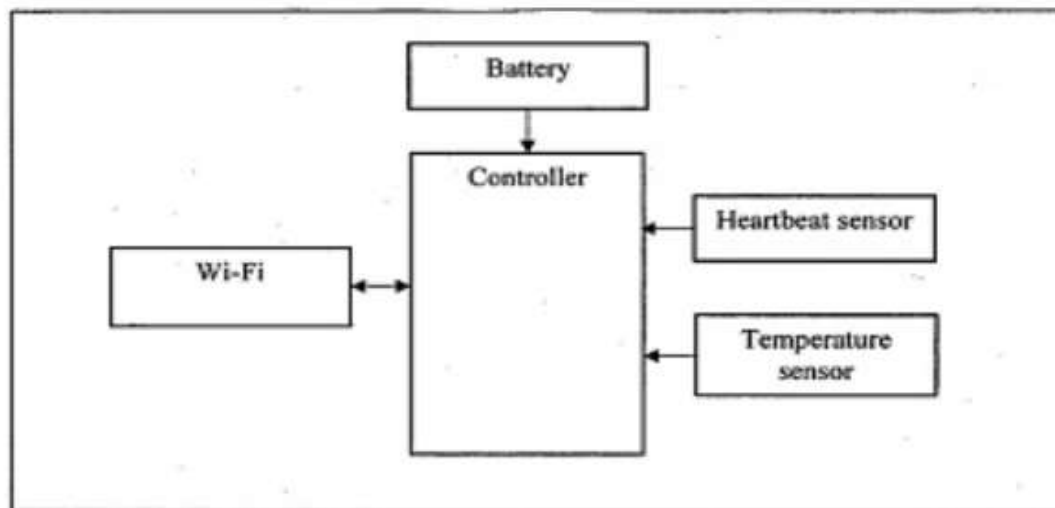


Figure (i) shows the Block Diagram

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : FPGA BASED AUTOMATIC GPS INDICATOR IN AUTOMOTIVE VEHICLES

(51) International classification :G06Q0020220000, G06F0030340000, H04L0027340000, G06F0021550000, B60R0001080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

The process of getting directions when you're lost and thus have no clue where you're heading might be tough. If a Remote phone or a Tracking gadget is in your automobile, you will be saved the agony of experiencing such an incident. With these gadgets, it is easy to discover out how you're and to receive turn-by-turn instructions to your desired location. In this suggested work, artificial intelligence-based Location tracking is utilized, with the individual responsible for setting the desired path. When the specified path is followed, the led indication in the automotive units will automatically activate the light to point in the direction of the vehicle's movement. This system can benefit users since there will be no need for a manual indication in the event that the automobile is going to the liberal or conservative with the help of this system.

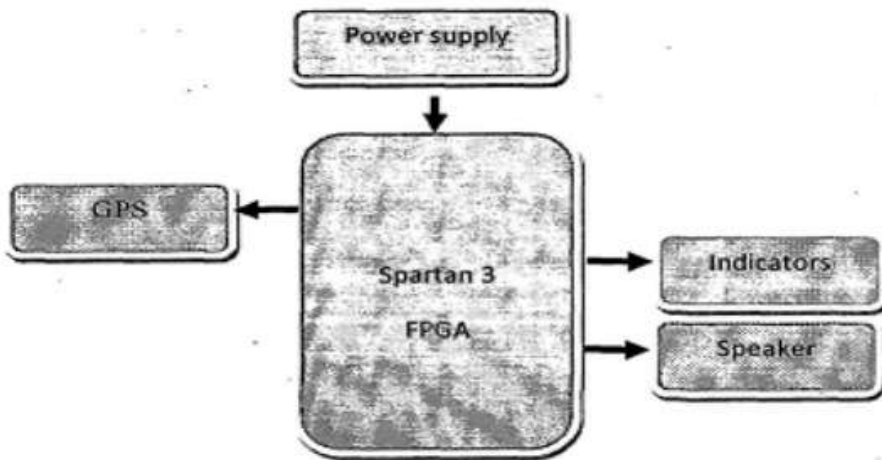


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : PUBLIC BUS SHELTER USING FPGA BASED INTELLIGENT TRANSPORTATION SYSTEM

(51) International classification :G06Q0040060000, G06F0021720000, G06F0021850000, G06Q0040000000, G06F0016245500

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

The goal of the proposal is to develop and install an intelligent bus shelter. People may avoid taking the bus and instead wait for the next one or even track down its present position. More information about the destination is available at bus stops, making it easier for passengers to select whether or not to board a certain bus or not. If there are no passengers waiting to ride or get off at an impending Bus Stop, the Bus can skip that Bus Stop and proceed to the next Bus Stop where people are waiting, reducing the passengers trip time as well as the passengers wait time at forthcoming Bus Stops. More information about the destination and buses is available at bus stops, making it easier for passengers to select whether or not to travel a certain bus.

BLOCK DIAGRAM:-

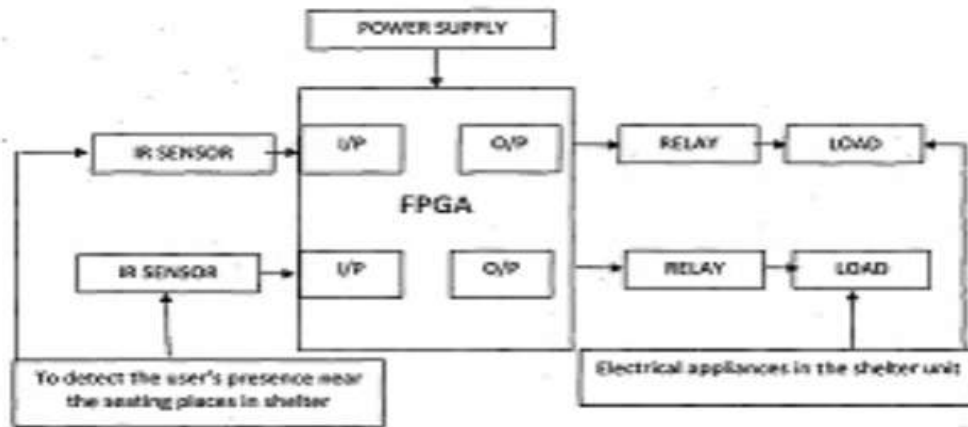


Figure (i) shows the Block Diagram

No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : DESIGNING AN IOT AID BOOTH TO PROVIDE COVIDSELF TEST KIT IN HOSPITALS

(51) International classification :H04L0029080000, G06F0007533000, G01N0015060000, G03B0017530000, H04W0004700000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
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(57) Abstract :

Covid has been declared a disease outbreak disease by the World Health Organization (WHO). The important problems were being experienced by capable subject matter specialists & clinical evaluation units all over the world. The government also devises an outlandish strategy to gain support for the disease: they impose a state of emergency on the countries. Remedies reported on Thursday that the Indian Council of Medical Research (ICMR) has approved CoviSelf, the nation's first self-use rapid diagnostic test for covid-19. The approval came after the apex medical research agency issued a guideline late Wednesday authorizing the use of self-testing kits while cautioning against their widespread use. The proposed structure gives the covidselfkit to the needy patients in a hospital by installing this booth in the hospitals. By using Cash detecting module, we can collect the money from user, and after some further process in the controller we can lend the kit to the person without any physical contact. At the same time some personal information is collected via GUI which is placed in the booth. Once if it runs out of kits it is programmed in such a way that an alert message is sent to the concerned government body.

BLOCK DIAGRAM:

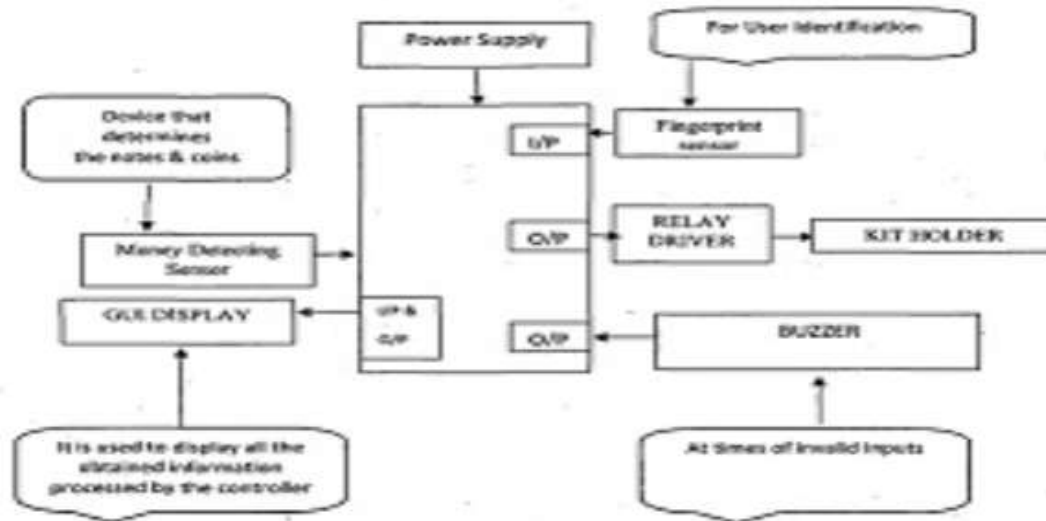


Figure (i) shows the Block Diagram

No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF FOOTBALL SCOREBOARD BY USING LIVE SCORE API WITH THE IOT TECHNOLOGY TO DISPLAY THE SCORE IN REAL TIME

(51) International classification :A63B0071060000, H04L0029080000, G09F0009300000, G06K0009000000, H04N0005262000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE-411045 -----

(57) Abstract :

India, a sports-crazy culture, prefers to watch sports in groups, where the entire neighborhood gathers to watch the game, whether it's cricket or football. However, one of the issues we have is that the scoreboard at the bottom of our television screen gets very small and difficult to see as a result and the cost of some OTT apps are even higher to view the score. So, today we're going to create an IoT and Arduino-based Scoreboard utilizing NODEMCU and a P10 display Module, which will be large enough to display the live score and will be extremely straightforward to produce. Here we using Speaker module to read the score in real time. This system will be very useful to the blind person who has the special place in his heart for sports. In this case, the API service is utilized to obtain the Live scores, which are then decoded by the ESP8266 NODEMCU and delivered to the Arduino, which controls the display. The Arduino then transmits the necessary information to the p10 display and generates the speaker to alert about the goals of each team.

BLOCK DIAGRAM

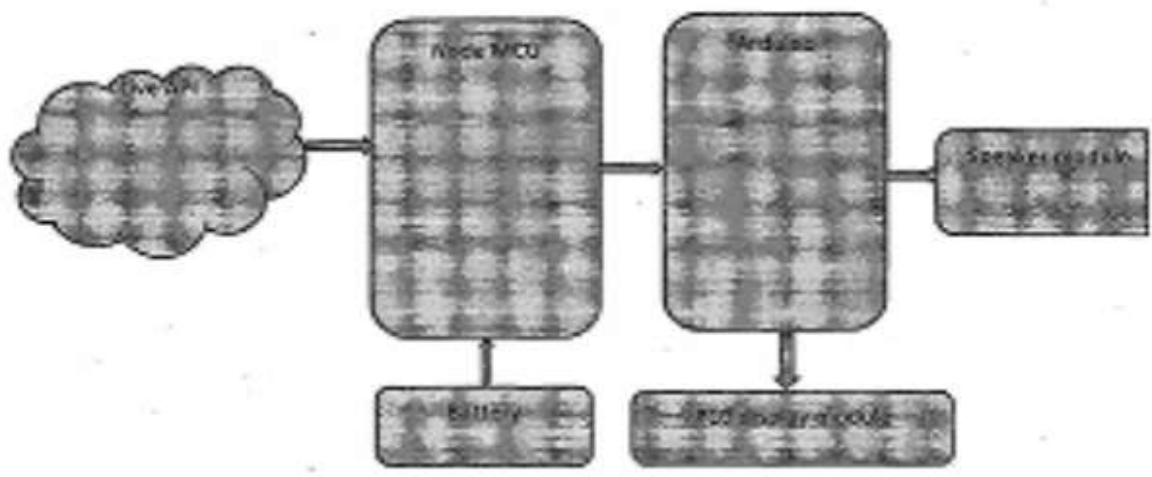


Figure (i) shows the Block Diagram

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121059617 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : THE AUTOMATIC DETECTION OF PRODUCTS THAT ARE OUT OF STOCK IN SUPERMARKETS USING LATEST TECHNOLOGY

(51) International classification :H04L0001000000, G06Q0040060000, H05B0045395000, G06Q0040000000, F24F0011300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE ,MAHARASHTRA,INDIA-411045 -----

(57) Abstract :

Customers go to the supermarket to buy and pay for the items they need on a daily basis. The number of items sold must be calculated, and a bill must be generated for the consumer. If you do not know when, where, and what you have, you will not sell anything. The major goal of any retail sector is to sell inventories and to be alerted if they are out of stock. To transform your retail shop, you'll need to understand what stock management is and how to put it to use. Order is maintained across the organisation by effectively managing store inventory. In your store, you utilise a number of systems and software programmes to keep track of your goods. Despite the fact that it appears to be a simple task, managing your stock requires considerable skill. We've put forward a method that uses latest technology to keep track of our inventory levels.

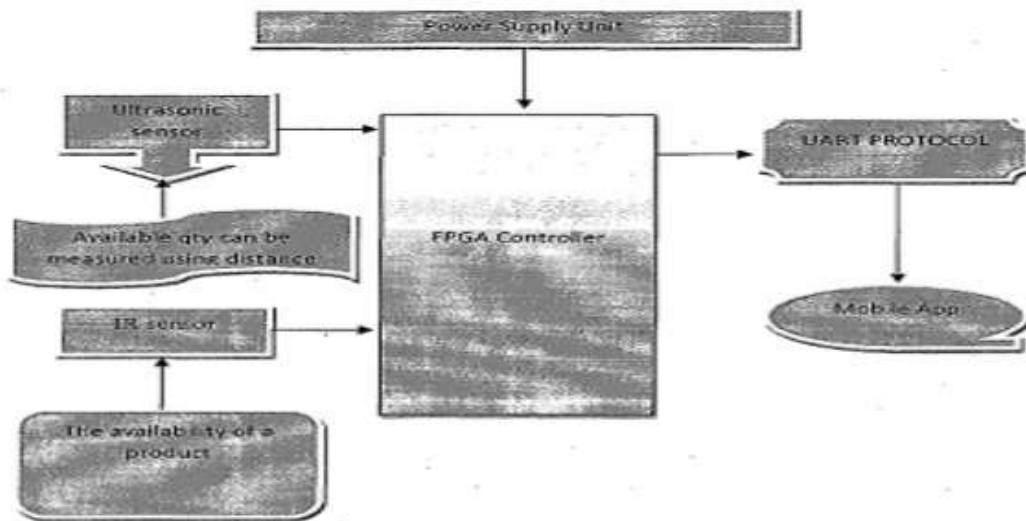


Figure (i) shows Block diagram

No. of Pages : 14 No. of Claims : 1

(54) Title of the invention : HOME BASED ISOLATION SYSTEM FOR COVID PATIENTS

(51) International classification :H04W0004029000, H01L0021762000, H04W0080040000, H04W0048140000, H04W0004060000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE,MAHARASHTRA,INDIA-411045 -----

(57) Abstract :

Innovation in medical services gives the moving plans to specialists for checking the patients in different parts of infections. Today our hotly debated issue is Coronavirus infection, our nation battle against the sickness to survive. Presently the accessibility of beds in a few emergency clinics is major significant emergency we confronted. Because of expansion in tainted patients, we confronted the emergency. Along these lines, there is a requirement for a home checking framework for ordinary patients. In the event of any basic circumstances, the computerized framework will make an alarm to the specialist or emergency vehicle unit. Different boundaries like temperature, oxygen level and heart speed increase ought to be observed for the patients and those boundaries are checked by specialist through IoT cloud worker. On the off chance that the patient's boundaries are over the limit, the framework alerts the emergency vehicle unit and gives the specific area of the basic patient by utilizing GPS module.

BLOCK DIAGRAM:

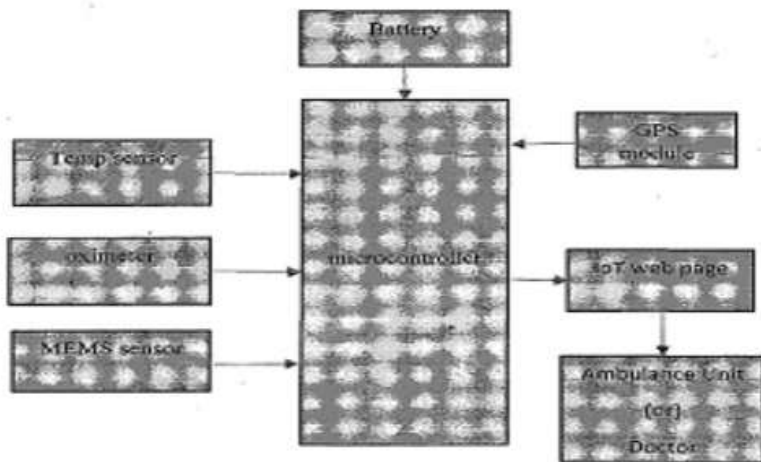


Figure (i) shows the Block Diagram

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : DESIGN AND DEVELOPMENT OF ADVANCED EMBEDDED SENSOR BASED SAFETY DEVICE

(51) International classification :A63F0013213000, A63F0013525500, C11B0009000000, H01L0023310000, G06F0001320600

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
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(72)Name of Inventor :
1)RAMAKRISHNAN RAMAN
 Address of Applicant :B 202,NIRMITI ZION APARTMENT BALEWADI,PUNE,MAHARASHTRA,INDIA-411045 -----

(57) Abstract :

A way to install a distance sensor that gives the wearer a beep sound if some thing or human approaches it so that the children are alerted that they have to keep safe distance from others. Once children are used to the safe distance situation, they do not have to use the unit. This is helpful not only for the children, but also for the elderly or careless elderly, who have the least difficulty in social distance. The buzzer and sensor can be powered on a small battery to be portable and suitable for any accessory. This is a cost-efficient plugin for distance detection and alerting simple to create and enforce. The circuit includes the tiny battery, the Arduino Uno chip, the sensor HC SR04 and buzzer. The circuit can be made and integrated in any of our everyday gadgets so that we don't have to buy a pricey remote bracelet or other equipment. As it is lightweight and simple to mount, we can ensure that our own imaginative outer covers make it aesthetically fine.

BLOCK DIAGRAM

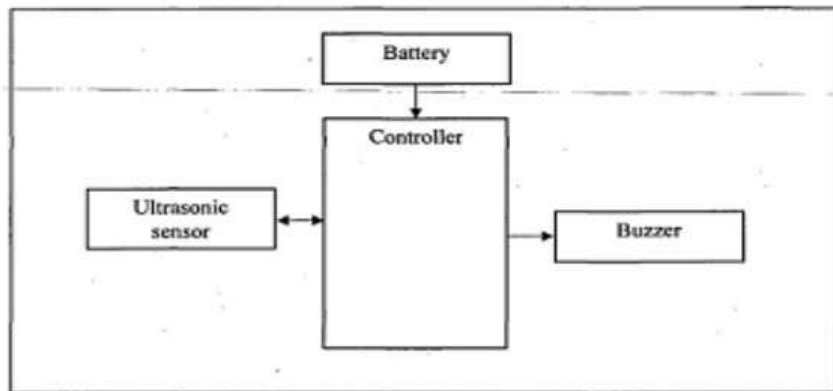


Figure (i) shows the Block Diagram

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121059926 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DEVELOPMENT OF VIRTUAL MONITORING AND MECHANISM FOR RENEWABLE ENERGY SOURCES EMBEDDED WITH IOT

<p>(51) International classification :F21S0009030000, G09B0019000000, F03D0009320000, B32B0027060000, G06Q0050100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. ASHISH K. SHARMA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, G H RAISONI COLLEGE OF ENGINEERING (GHRCE), HINGNA RD, DIGDOH HILLS, NAGPUR, MAHARASHTRA 440016 ----- 2)Dr. SURESH GULUWADI 3)Mr. RAHUL R RAI 4)Dr. BIRRU DEVENDRA 5)Dr. ASHOK KUMAR P S 6)Mr. DARSHAN B D 7)Mrs. LATHA S Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. ASHISH K. SHARMA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, G H RAISONI COLLEGE OF ENGINEERING (GHRCE), HINGNA RD, DIGDOH HILLS, NAGPUR, MAHARASHTRA 440016 ----- 2)Dr. SURESH GULUWADI Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF THERMAL ENGINEERING ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY ETHIOPIA P.O.BOX: 1888 ADAMA, OROMIA, ETHIOPIA ----- 3)Mr. RAHUL R RAI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SJB INSTITUTE OF TECHNOLOGY BGS HEALTH & EDUCATION CITY, DR. VISHNUVARDHAN RD, KENGERI, BENGALURU, KARNATAKA 560060 ----- 4)Dr. BIRRU DEVENDRA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, HOLY MARY INSTITUTE OF TECHNOLOGY AND SCIENCE,KEESARA, MEDCHAL, HYDERABAD, TELANGANA STATE, INDIA, PIN - 501301, ----- 5)Dr. ASHOK KUMAR P S Address of Applicant :PROFESSOR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING DON BOSCO INSTITUTE OF TECHNOLOGY, KUMBALAGODU, BENGALURU 560078 , KARNATAKA, INDIA ----- 6)Mr. DARSHAN B D Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SJB INSTITUTE OF TECHNOLOGY BGS HEALTH & EDUCATION CITY, DR. VISHNUVARDHAN RD, KENGERI, BENGALURU, KARNATAKA 560060 ----- 7)Mrs. LATHA S Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SJB INSTITUTE OF TECHNOLOGY BGS HEALTH & EDUCATION CITY, DR. VISHNUVARDHAN RD, KENGERI, BENGALURU, KARNATAKA 560060 -----</p>
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(57) Abstract :
The Internet of Things has a dream where the web reaches out into this present reality, which fuses ordinary objects. The IoT permits objects to be detected or controlled somewhat over existing organization framework, making openings for unadulterated coordination of the actual world into PC based frameworks, and coming about in improved effectiveness, exactness and monetary advantage notwithstanding decreased human mediation. This innovation has numerous applications like Solar urban communities, Smart towns, Micro frameworks and Solar Street lights, etc. As Renewable energy developed at a rate quicker than some other time in history during this period. The proposed framework alludes to the on the web show of the power utilization of sunlight based energy as a sustainable power. This observing is done through raspberry pi utilizing jar system. Shrewd Monitoring shows day-by-day utilization of environmentally friendly power. This aides the client to examination of energy utilization. Examination affects the environmentally friendly power use and power issues. In this note, this present system exploits the Bluetooth interface of Android Tablet/Mobile phone as a correspondence associate for data exchange with mechanized gear of Power Conditioning Unit (PCU). The Low Cost Android tablet can substitute the graphical LCD outlines and web modem of RES Power Conditioning Unit (PCU) with overhauled graphical insight and contact screen interface.

No. of Pages : 18 No. of Claims : 6

(54) Title of the invention : METHOD FOR PREPARATION OF CURCUMIN NANOPARTICLES

(51) International classification :A61K0031120000, A61K0009510000, B82Y0030000000, B82Y0040000000, B01J0020280000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
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2)Amol Vijay Sonawane
3)Kanika Meena
4)Dr. Chetankumar Manharlal Patel
5)Dr. Zagabathuni Venkata Panchakshari Murthy

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 Address of Applicant :Professor (HAG), Chemical Engineering Department, Sardar Vallabhbai National Institute of Technology, Ichchhanath, Surat-395007, Gujarat, INDIA -----

(57) Abstract :

The utilization of curcumin in therapeutic applications is limited because of its low bioavailability and low stability. The present invention discloses a method for preparation of stable curcumin nanoparticles using the combination of surfactant and stabilizer. Curcumin nanoparticles are prepared using a vertical wet stirred media mill. Polyacrylic acid sodium salt and hydroxypropyl methylcellulose are used to prevent the agglomeration of nanoparticles. Prepared curcumin nanoparticles are characterized by Dynamic Light Scattering (DLS) and Transmission Electron Microscopy (TEM). Changes in microstructural properties and absorption of dispersants are studied by X-ray Diffraction (XRD) and Fourier Transform Infrared Spectroscopy (FTIR). The stability of curcumin is confirmed by zeta potential; a -38 mV value of zeta potential is obtained. Curcumin nanoparticles prepared are spherical in shape with a size in a range of 37-50 nm. FIG. 2

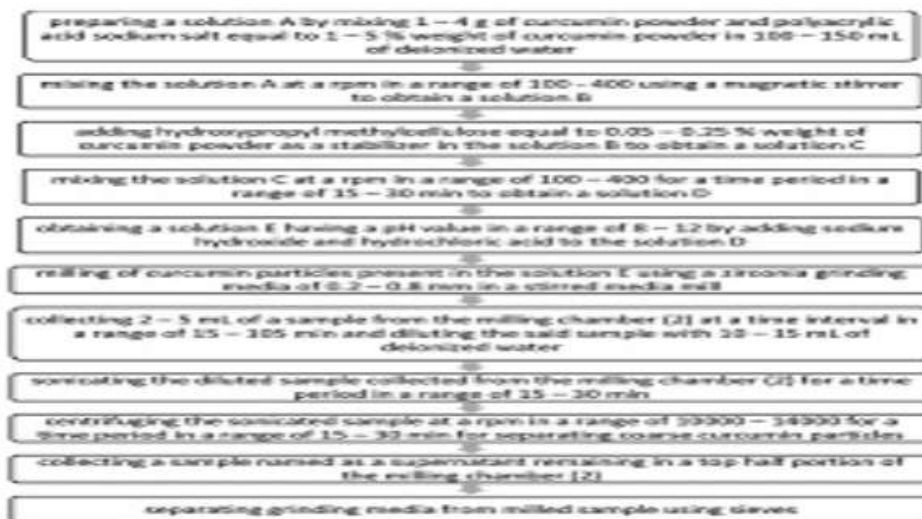


FIG 2

(54) Title of the invention : A SYSTEM FOR CONTROLLING OPERATIONS OF A VEHICLE SEAT

(51) International classification :B60N0002060000, B60N0002020000, B60R0011000000, B60N0002160000, H01Q0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

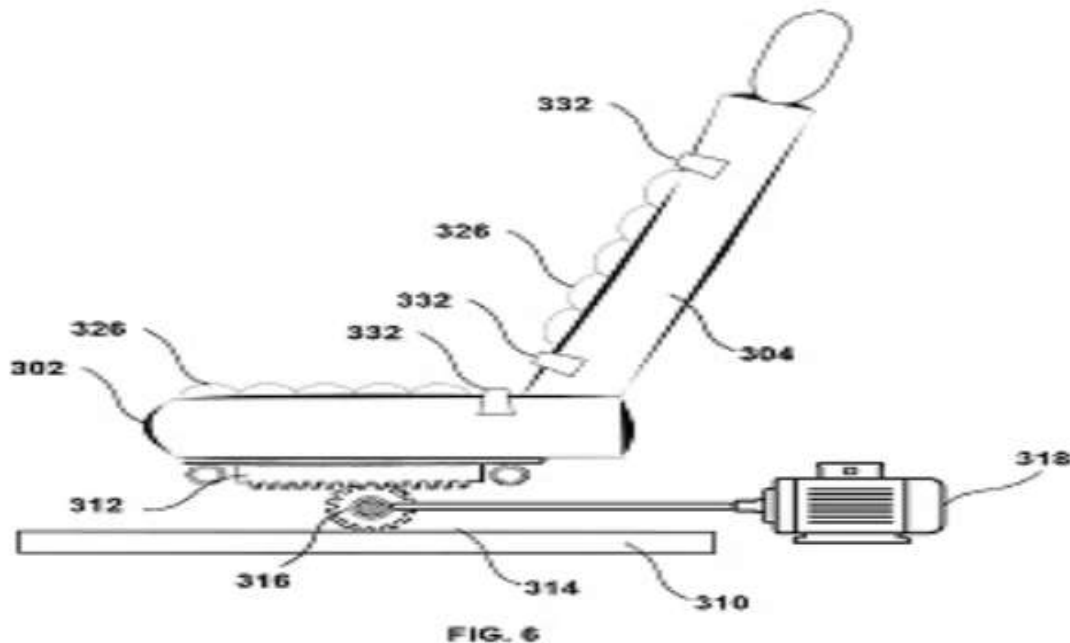
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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2)Yogendra Jain
3)Dr. Bandana Mahapatra
 Name of Applicant : NA
 Address of Applicant : NA

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2)Yogendra Jain
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3)Dr. Bandana Mahapatra
 Address of Applicant :Flat no 501, Tower 26 Lodha Belmondo, Mumbai - Pune Expressway Pune Maharashtra India 412 101 -----

(57) Abstract :

Disclosed is a system for controlling operations of a vehicle. The system of the present invention includes the vehicle seat which is displaceably disposed on a track by means of a mechanism comprising a pair of rails, a pair of slidable elements slidably disposed on the pair of rails, the seat base being firmly secured to the pair of slidable elements, a pair of racks securely coupled with the pair of rails, a pair of pinions rotatably coupled with the pair of slidable elements and meshing with the pair of racks, an electric motor connected to the pinions, and sensors for detecting position of the seat. A microprocessor connected to the sensors and configured to receive signals generated by the sensors and process the received signals, a transceiver connected to and in data communication with the microprocessor, the transceiver configured to receive, and transmit signals to and from the microprocessor



(54) Title of the invention : HYBRID TAWA OR COOKING PAN

(51) International classification :A47J0037100000, C12N0009240000, A61K0008660000, B60K0006480000, A47J0036320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention relates to use Aluminum/Stainless-steel/Brass/Copper/ or any Heat Conductive Alloys/Ceramics along with Non-Stick/Teflon/Ceramic/Stick-Free/OR similar coating to make Hybrid Tawa or Cooking Pan. To be more specific, this invention pertains to select and use appropriate materials for making Hybrid Tawa or Cooking Pan. This invention delivers promising results for Hybrid Tawa or Cooking Pan, which is mixture of various materials, with Tri-part type structure of Aluminum/Stainless-steel/Brass/Copper/or Alloys/Ceramics. The conventional design of cookware/ tawa is associated with several drawbacks like it has a uniform thickness and gas flame below it heats it maximum at the center as a result the rotis, chapatis, paratha's, dosas, khakhra and tortillas or any other similar items made over it, are or overdone in the middle part & they remain undercooked at the edges of conventional tawa's. This is due to unequal heat distribution on the whole surface area of tawa. Therefore, the present invention introduces an improved design of thermally efficient metallic/conducting ceramic/cookware/tawa for making uniformly cooked rotis, chapatis, paratha's, dosa, khakhra and tortillas or any other similar items The improved design is made energy efficient to trap most of the available heat from the gas flame with minimum loss of heat. The design is such that it does not burn the part of food items such as rotis; chapatis, paratha's, dosas, khakhra and tortillas or any other similar items that lies just above the flame but instead heats uniformly all over the tawa. This innovative Hybrid Tawa or Cooking pan with maximum use of copper and it is aesthetically pleasing, multi-layered. Non- Stick/Teflon/Ceramic/Stick-Free/Or Similar coating at the top surface. Said copper plate is made up of corrugations so that there is scope for small expansion and with better thermal contact. This innovative Hybrid Tawa or Cooking pan is with very less compromise in weight and cost. This Innovative Hybrid Tawa or Cooking pan design extendable to all kinds of cooking wares for more effective and efficient cooking.

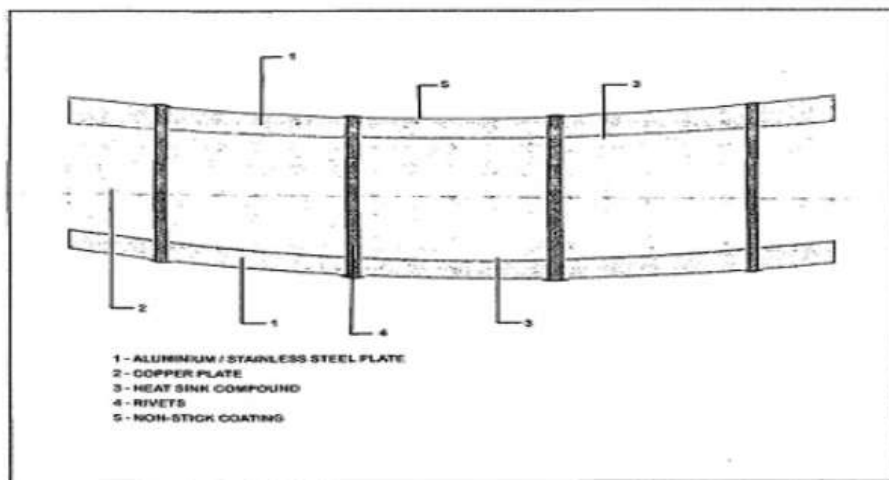


Fig. 1. Hybrid Tawa or Cooking Pan sectional side view

No. of Pages : 16 No. of Claims : 9

(54) Title of the invention : GREY TiO2 SYNTHESIS THROUGH ALUMINIUM FOIL ASSISTED NaBH4 REDUCTION

(51) International classification :B01J0035000000, B01J0021060000, B01J0037030000, B01J0037080000, B01J0023500000

(86) International Application No Filing Date :NA :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

Grey TiO₂ synthesis through aluminium foil assisted NaBH₄ reduction In the present invention, white Titanium Dioxide (TiO₂) has been reduced to synthesize grey TiO₂ by using Aluminium foil assisted Sodium Borohydride (NaBH₄) reduction in a very cost effective manner. The reduction process involves minimal time and does not require any harsh condition/chemical. Additionally, the inert environment requirement in the calcination step has been eliminated by tightly packing of the finely ground mixture of NaBH₄ and TiO₂ in an aluminium foil to provide an oxygen-free environment. The grey TiO₂ is then tested for its photocatalytic activity by using Fuchsin Basic dye solution under both UV-Visible light and sunlight. Grey TiO₂ displays a better photocatalytic activity than the unreduced white TiO₂. The reduction process reduces the bandgap value of TiO₂ which leads to superior photo activity.



Figure 1 shows Steps for grey TiO₂ nanoparticles synthesis

(54) Title of the invention : SHOCK DAMPENING ASSEMBLY FOR A SEAT POST

(51) International classification :B62J0001080000, B62J0001020000, B62J0001060000, B60G0009000000, F04B0039000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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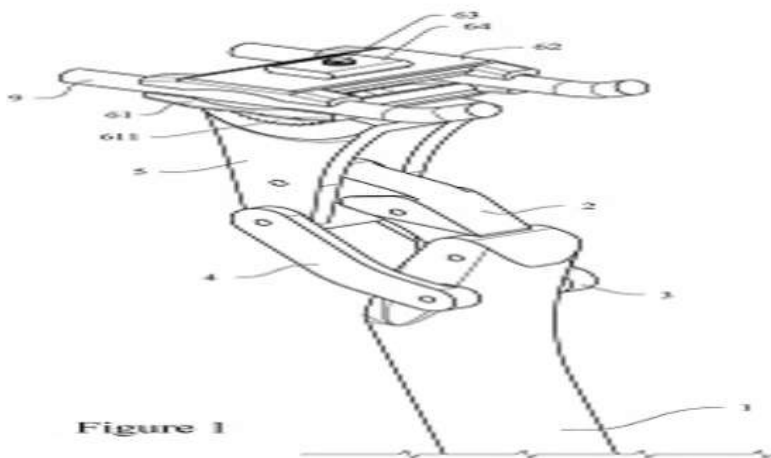
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(57) Abstract :

A shock dampening assembly for a seat post comprises the suspension assembly comprises a main seat post body, resisting link, a pair of supporting links, a swinging arm, a seat rail clamping assembly and suspension spring subassembly. The spring assembly includes a suspension connecting rod, a compression spring and lower attachment arranged in inline manner. The connecting rod connects the intermediate mechanism to the spring assembly. The swinging arm receives the seat clamping subassembly, wherein any conventional bicycle seat can be positioned. The assembly offers a compact and effective shocks and vibration absorbing assembly which can be utilized for rigid bicycles of all kinds.



No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : COMPOSITION TO USE TO CONSTRUCT A RIGID PAVEMENT

<p>(51) International classification :C04B0028020000, C04B0014340000, C04B0026260000, E01C0011220000, C04B0028060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Rabindranath Tagore University Address of Applicant :Mendua, Bhojpur Post Office Near Bangrasiya Chouraha, Chiklod Road ,Distt. Raisen , Madhya Pradesh, INDIA - 464993 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mohammad Imran Khan Address of Applicant :Civil Engineering Department Rabindranath Tagore University, Bhopal Madhya Pradesh, INDIA - 464993 -----</p> <p>2)Dr. Shalini Yadav Address of Applicant :Civil Engineering Department Rabindranath Tagore University, Bhopal, Madhya Pradesh, INDIA - 464993 -----</p> <p>3)Dr. Ahmad Ali Khan Address of Applicant :Civil Engineering Department All Saints College of Engineering, Bhopal Madhya Pradesh, INDIA462036 - -----</p>
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(57) Abstract :

ABSTRACT Composition to Use to Construct a Rigid Pavement The composition for use to construct the pavement according to an option comprises One part cement, One and Half part sand, Three parts aggregate and 10 – 30 % by weight chips of the total weight of the mixture. A process for constructing a pavement comprises One part cement, One and Half part sand and Three parts aggregate are mixed with each other and then 10 – 30 % by weight metal chips of the total weight of the mixture and required amount of water is added so as obtain a homogeneous mixture for use to construct pavement having a thickness in the range of 160 mm to 360 mm to construct the pavement. [Fig. 3]

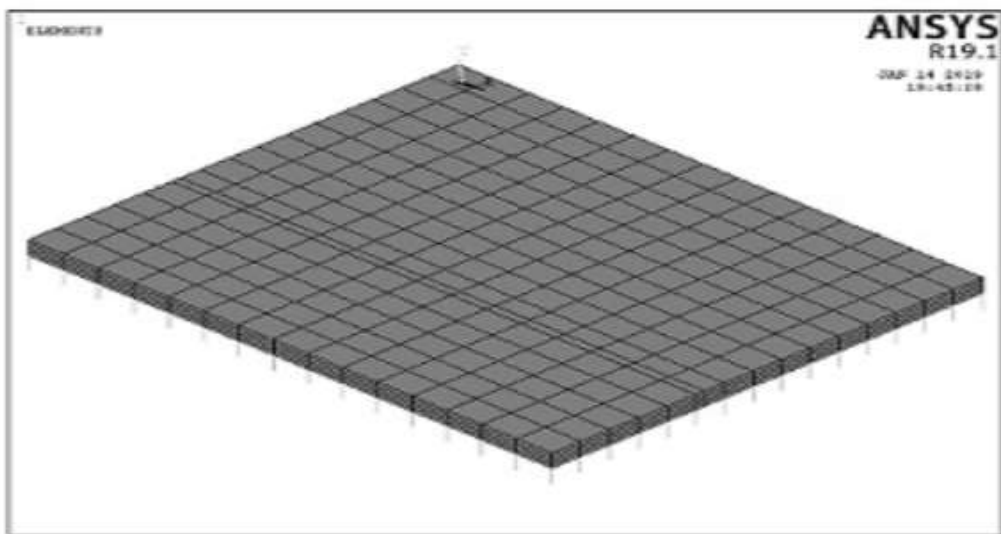


Fig. 3

No. of Pages : 20 No. of Claims : 4

(54) Title of the invention : AN ECONOMICAL PROCESS TO PRODUCE SYNTHETIC SLAG FROM ALUMINIUM DROSS

(51) International classification :C22B0021000000, C01F0007020000, C22B0007040000, C22B0009050000, F27D0003150000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

AN ECONOMICAL PROCESS TO PRODUCE SYNTHETIC SLAG FROM ALUMINIUM DROSS An economical process (100) of producing synthetic slag (20) from aluminum dross (30) in an arc furnace (50), characterized in that the arc furnace (50) has a plurality of graphite electrodes (51) placed in a symmetrical formation, a first taphole (59) at a lower level and a second taphole (60) relatively there above and circumferentially at a different location, and a charge mixture (10) comprising the aluminum dross having alumina and aluminum, an oxidizing agent, and calcium oxide, a ratio of the calcium oxide and an aluminum-free alumina being 650-680:680-720; wherein, a first reaction and a second reaction commence simultaneously, and complete in 20 to 50 minutes, producing the synthetic slag (20); the Al₂O₃ is producible at 32 to 62% cost with respect to prior art, and whereby the synthetic slag (20) is correspondingly produced.

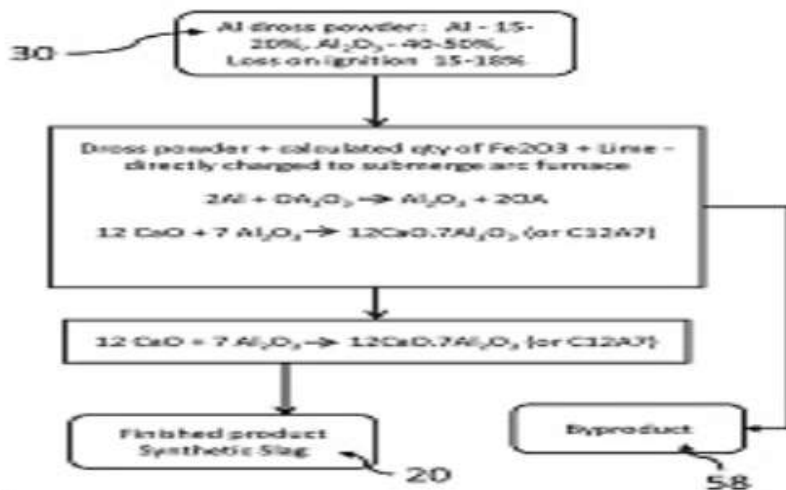


Figure 1

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121060778 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A METHOD FOR SIMULTANEOUS PREPARATION OF HERBAL MEDICATED OIL AND HERBAL AQUEOUS EXTRACT

(51) International classification :A61K0036000000, C11B0003160000, A23D0009050000, C02F0001000000, C11D0009380000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

According to the invention, there is a method for simultaneous preparation of Medicated herbal oil and aqueous herbal extract consisting of- a. Boiling desired herbs with water and filtering to obtain herbal decoction b. Adding herbal decoction to desired oil, ghee, animal fat or mixture thereof. c. Boiling the mixture gently using any suitable heating source to gradually evaporate water content from the mixture. d. Filtering to separate medicated oil and thick herbal slurry. e. Herbal slurry is dissolved with water, filtered and layer of residual oils is separated with separating funnel or other suitable apparatus. f. The slurry is then dried to obtain the herbal extract.

No. of Pages : 11 No. of Claims : 1

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED DIAGNOSIS OF MALIGNANT SKIN DISEASE USING CLASSIFICATION ALGORITHM

(51) International classification :H04L002908000, G06T0007620000, G06T0007110000, G06T0007900000, G06T0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
System and method for detecting illnesses or conditions using digital photographs captured by a distant user with a smartphone or digital camera and submitted to an image analysis server connected to a distributed network are described. The image analysis server is equipped with a learning machine taught to classify the photos in question. The user-provided picture is preprocessed to extract dimensions, form, and color characteristics. It is processed using a trained learning machine to categorize the image using the extracted features. A post-processing step is performed on the classification result to create a risk score, then provided to the remote user. A database connected with the server may include referral information that may be used to match the distant user with a local physician based on their geographic location. It is possible to gather financial information to ensure payment for analytic services, which is an optional activity.

Diagram:

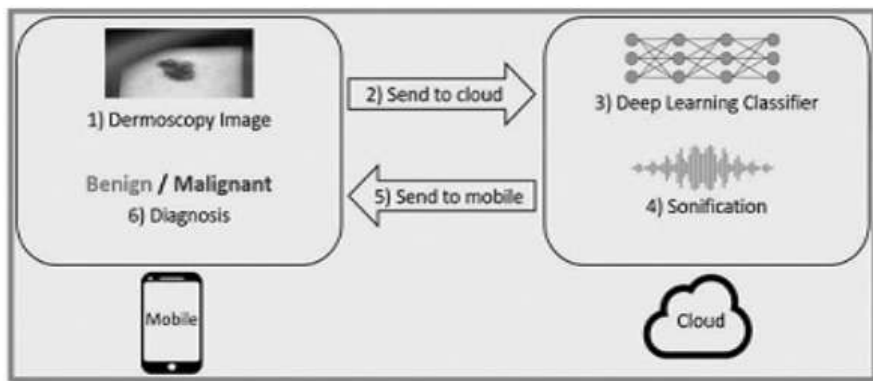


Figure 1: Proposed invention functional flow diagram

No. of Pages : 22 No. of Claims : 3

(54) Title of the invention : ADVANCE ATTENDANCE SYSTEM USING RFID CUM TEMPERATURE SENSOR WITH AUTOMATIC SANITIZATION

(51) International classification :G07C0001100000, H04L0029080000, G06Q0050200000, G07C0001140000, H04Q0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

This work introduces a new paradigm of monitoring student attendance using Radio Frequency Identification (RFID) based on the Internet of Thing (IOT). Educational institutes are concerned about student irregular attendance. Accuracy can affect a student's overall academic performance. The traditional method of taking attendance by calling names or signing on paper is very time consuming and inefficient. RFID based attendance system using IOT system is one of the solutions to handle the problem. The proposed work comprises of two most popular trend in technology research; IOT and RFID.

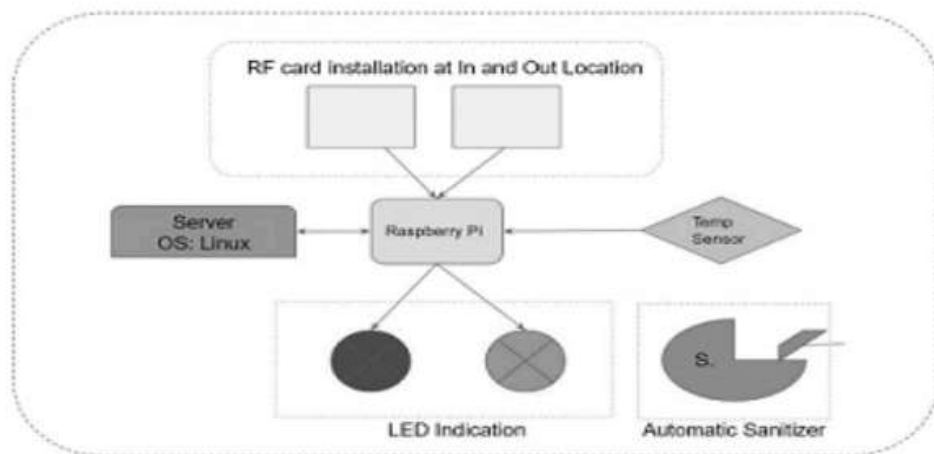


Figure 1 – Block Diagram of system

(54) Title of the invention : THUMB SAFETY HOLDER FOR A SINGLE EDGE KNIFE BLADE FOR CUTTING VEGETABLES AND FRUITS

(51) International classification :B26B0029020000, E02F0003400000, B26B0009000000, H03L0007100000, B26B0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Nowadays everyone wants to do work fast. Generally, human has to prepare breakfast and lunch for their family in the early morning. Due to the short time, vegetables and fruits have to prepare quickly. Many times, human thumb and fingers get injured. To enhance safety, the authors have developed the safety holder. Present work describes a thumb holder to cover the thumb from the single edge knife blade. The thumb safety holder can easily attach with a knife gripping portion.

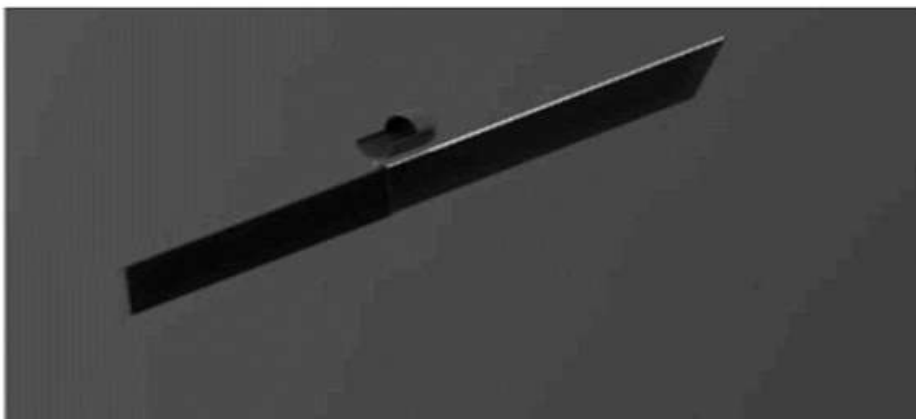


Figure 1 - Thumb holder with Single edge knife blade

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : AN IMPROVED ROOT CROP DIGGER CUM HARVESTER WITH FOLDABLE CONVEYOR AND SINGLE DRIVE PIVOT MECHANISM

(51) International classification :A01D0017100000, B65G0041000000, A01D0017060000, A01D0033000000, A01D0033120000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

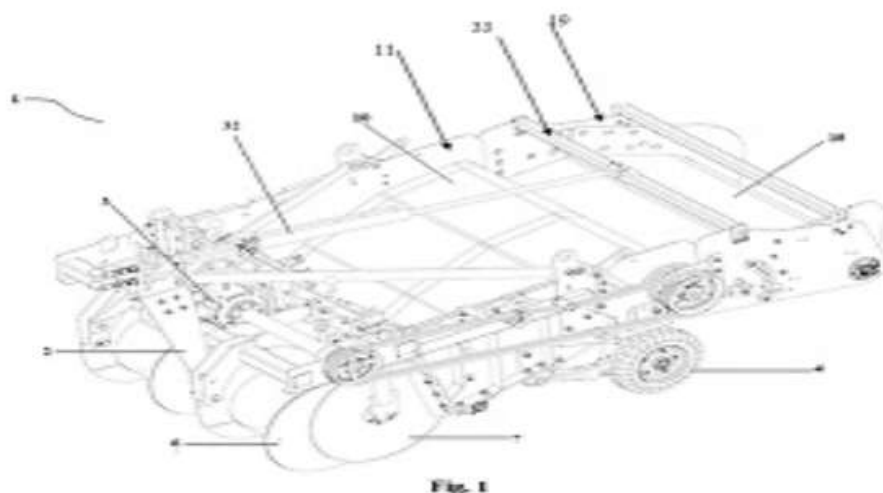
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(57) Abstract :
 ABSTRACT AN IMPROVED ROOT CROP DIGGER CUM HARVESTER WITH FOLDABLE CONVEYOR AND SINGLE DRIVE PIVOT MECHANISM The present invention relates to a pull type tractor driven root crop digger cum harvester (1) having an improved foldable conveyor and single drive pivot mechanism. The root crop conveyor system comprises primary conveyor assembly (9) and a secondary conveyor assembly (17) those operated by the single mechanical source through gear box (3), pulleys and endless single/multiple-belt/chain (31). Further, the primary conveyor assembly (9) and secondary conveyor assembly (17) pivotally connected with each other, the secondary conveyor assembly (17) in configured to fold up to 01800 with reference to horizontal plain (X) through a hydraulic cylinder (32). The root crop digger cum harvester (1) requires less lifting capacity of tractor due to moving the point of gravity closer to tractor, occupied less space while in transportation mode or not in working condition and no intermediate driving mechanism and use of single mechanical source makes machine efficient and cost effective. Fig. 1



No. of Pages : 27 No. of Claims : 11

(54) Title of the invention : A SYSTEM FOR BLOOD ANALYSIS

(51) International classification :G01N0015140000, G01N0035000000, G01N0033490000, A61M0005142000, G01N0021030000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

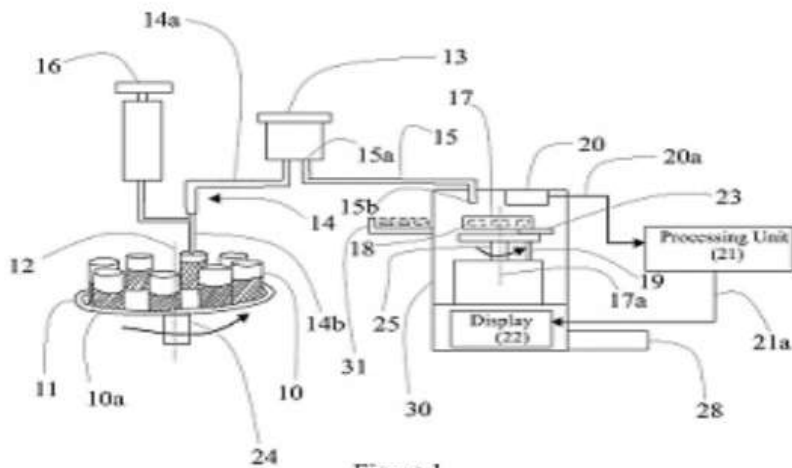
(62) Divisional to Application Number :NA
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(57) Abstract :

Abstract Title: A system for blood analysis The present invention relates to a system (100) for blood analysis. The system (100) reduces the workforce required to handle a blood sample during testing. The system (100) includes a circular platform (11) having containers (10) that rotates to a position where a linear actuator (16) actuates a suction tube (14) to aspire test sample (10a) from the container (10) and transfer to a flow cell (18) arranged within a flow cell tray (17). An image sensor (20) captures the images of the test sample (10a) in the flow cell (18) and sends a signal to the processing unit (21), which determines an amount of concentration of an analyte in the test sample (10a) and a numerical value for the concentration of the analyte is displayed on a display unit (22).
 Figure 1.



No. of Pages : 24 No. of Claims : 8

(54) Title of the invention : METHOD AND SYSTEM FOR DEVELOPING EFFICIENT LOAD BALANCING USING PRIORITY ALGORITHM IN CLOUD COMPUTING

<p>(51) International classification :G06F0009500000, H04L0029080000, G06F0011340000, G06F0009455000, H04L0012140000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Anita Soni Address of Applicant :Professor, Department of Computer Science and Engineering, Technocrats Group, Bhopal M.P. India Pin 46202 ----- 2)Dr. Rachna Kamble 3)Shweta Shrivastava 4)Dr. Dheeraj Malhotra 5)Dr. Neha Malhotra 6)Ayushi Godiya Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Anita Soni Address of Applicant :Professor, Department of Computer Science and Engineering, Technocrats Group, Bhopal M.P. India Pin 46202 ----- 2)Dr. Rachna Kamble Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Technocrats Institute of Technology, Bhopal M.P. India Pin 462021 ----- 3)Shweta Shrivastava Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, LNCT Group, Raisen Road, Bhopal, Madhya Pradesh – 462022 India ----- 4)Dr. Dheeraj Malhotra Address of Applicant :Assistant Professor (Sr. Grade), Department of Information Technology, Vivekananda Institute of Professional Studies, GGS IP University, Delhi-110034 India ----- 5)Dr. Neha Malhotra Address of Applicant :Assistant Professor (Sr. Grade), Department of Information Technology, Vivekananda Institute of Professional Studies, GGS IP University, Delhi-110034 India ----- 6)Ayushi Godiya Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Technocrats Institute of Technology, Bhopal M.P. India Pin 462021 -----</p>
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(57) Abstract :

The present invention is related to a method and system for developing an efficient load-balancing algorithm that maximizes the throughput and minimize the latency of clouds of varying sizes (virtual topology depending on the application requirement). Subsequently, the method and system dynamically allocate system resources that can increase application performance in cloud computing. The method and system implement a dynamic resource allocation and dynamic server distribution that is better than the traditional priority algorithm. The method and system have allowed VM function scaling and migration to boost application performance.

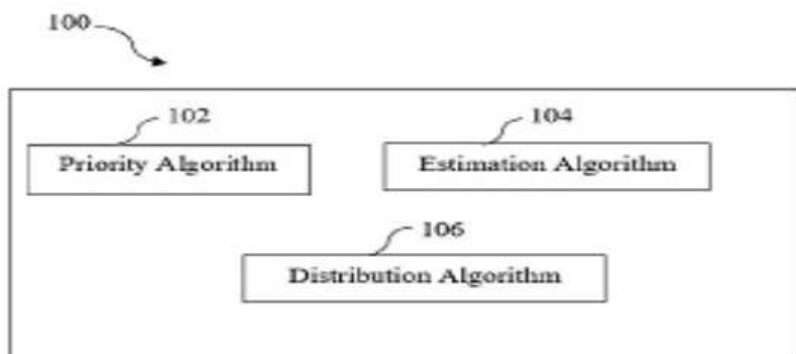


Figure – 1

No. of Pages : 30 No. of Claims : 4

(54) Title of the invention : A PHARMACEUTICAL COMPOSITION FOR DENTAL TREATMENT

<p>(51) International classification :A61C0005400000, A61C0005500000, A61C0019060000, A61K0006520000, A61K0006690000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Satish Kumar Sarankar Address of Applicant :Principal &Professor, Pharmaceutical Chemistry, Akhil Bharti College of Pharmacy, Kharpa, Ratibad, Bhopal, MP. 462044 ----- 2)Sushma Somkuwar 3)Harish Pandey 4)Akhil Bharti College of Pharmacy, Kharpa, Ratibad, Bhopal</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Satish Kumar Sarankar Address of Applicant :Principal &Professor, Pharmaceutical Chemistry, Akhil Bharti College of Pharmacy, Kharpa, Ratibad, Bhopal, MP. 462044 ----- 2)Sushma Somkuwar Address of Applicant :Associate Professor, Pharmaceutical Chemistry, School of Pharmacy, LNCT University, JK Town, Kolar, Bhopal, MP. 462042 ----- 3)Harish Pandey Address of Applicant :Principal, Pharmaceutical Chemistry, Polytechnic Pharmacy, SRI Satya Sai University of Technology and Medical Sciences, Sehore, MP. 466001 ----- 4)Akhil Bharti College of Pharmacy, Kharpa, Ratibad, Bhopal Address of Applicant :Akhil Bharti College of Pharmacy, Kharpa, Ratibad, Bhopal, MP. 462044 -----</p>
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(57) Abstract :

The present invention is a pharmaceutical composition for dental treatment. It is related to a unique combination of antimicrobials comprising of antibacterial and antifungal agent which are very specific against the pathogenic endodontic micro flora which are exclusively responsible for infections of root canal system. The quantity administered each time during the treatment cannot be determined as it depends on the volume of the root canal system. It varies in each tooth as the volume of the root canal system of the teeth varies in individual tooth. However, grossly it may range from 0.6 – 0.9 ml. The effects of the formulation were seen immediately after insertion, which was assessed after 24 hours and also it remained effective for 14 days

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121061365 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : POLYHERBAL TOOTHPASTE FORMULATION USEFUL FOR PREVENTION OF DENTAL DISORDERS

(51) International classification :A61Q0011000000, A61K0036480000, A61K0036300000, A61K0008970000, A61K0008250000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

POLYHERBAL TOOTHPASTE FORMULATION USEFUL FOR PREVENTION OF DENTAL DISORDERS The present invention relates to a formulation of herbal toothpaste. The present invention discloses a herbal toothpaste useful for the treatment of dental infections of gums and teeth. The herbal toothpaste comprises of methanolic extract of Cordia obliqua or methanolic extract of Butea monosperma or methanolic extract of Cordia obliqua and methanolic extract of Butea monosperma in combination, calcium carbonate; magnesium carbonate; magnesium hydroxide; sodium lauryl sulphate; polyethylene glycol 400; Carbopol® 934; gum tragacanth; glycerin; sucrose; methanolic extract of Cuminum cyminum; p-hydroxy benzoate. The invention also provides a process for preparation of herbal toothpaste based on methanolic extract of Cordia obliqua or Butea monosperma or Cordia obliqua and Butea monosperma in combination. The prepared toothpaste was evaluated for its antimicrobial activity. The herbal toothpaste of present invention has potential usefulness as a dental care product.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : AUTOSTYLUS FACE MASKS WITH FRONT OPENING FLAP AND DETACHABLE FILTERS

(51) International classification :A41D0013110000, A62B0018020000, A62B0023020000, A62B0018080000, A61Q0019000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Abstract AUTO STYLUS FACE MASKS WITH FRONT OPENING FLAP AND DETACHABLE FILTERS The autostylus face masks provide protection against air born infections and enable person to speak easily while keeping the mask on. It also allows user to eat food and drink liquid without taking the mask off. The autostylus mask encompasses clip-on section (8) with two transparent round shape respirators (2) at the front for better exhalation of air and beneath that it provides folded blinds like structure (3) which ensures more room in the mask while speaking. The mask contains removable N99 HEPA filters (4, 5, 6) at the lower end covering the lower jaw contours and the chin which allows easy exchange of air. The main mask shape body (1) carries the sensor (14) which is implanted at the nose liner and ear liner and connected to the host server to monitor whether the mask is fastened by the user.

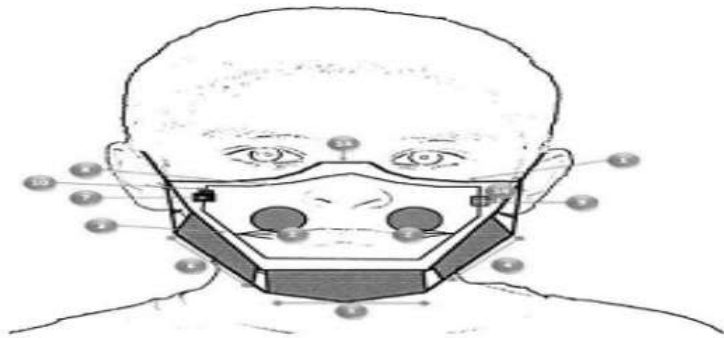


Figure 1 (a)

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : AN INTELLIGENT AUDIO AND VIDEO RECORDER EMBEDDED WITH A SPEECH RECOGNITION AND VIDEO PROCESSING SYSTEM

(51) International classification :G06K0009000000, G10L0017000000, G10L0015250000, G10L0015260000, H04N0007180000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

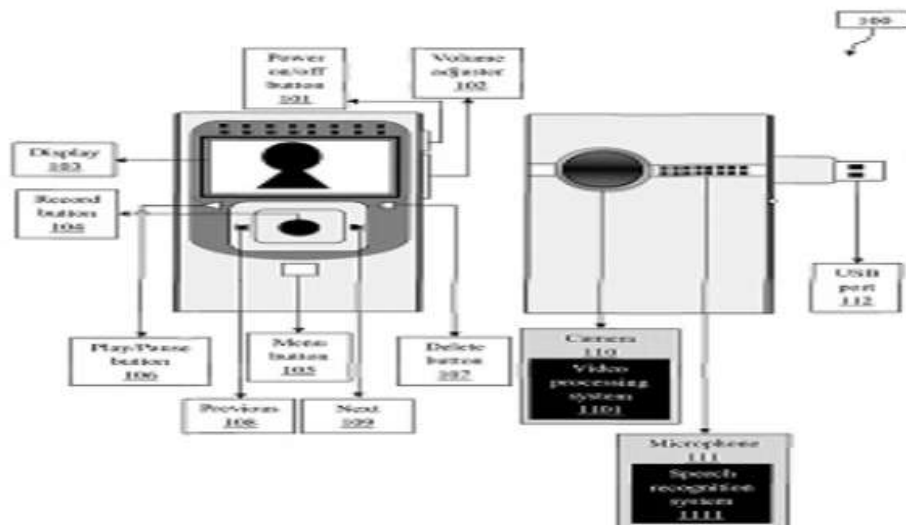
(62) Divisional to Application Number :NA
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(57) Abstract :

AN INTELLIGENT AUDIO AND VIDEO RECORDER EMBEDDED WITH A SPEECH RECOGNITION AND VIDEO PROCESSING SYSTEM The main design of our present invention discloses the intelligent audio and video recorder embedded with a speech recognition and video processing system, which comprises the documentation unit. The main objective of the present invention is to save the time of journalists by generating separate documents automatically during press meetings or conferences. Initially, the camera captures the video signal, and the microphone captures the audio signal of the speakers. The captured video signal will be passed to the video processing system and the visual speech recognition system tracks the lip movement of every speaker. The captured audio signal will be passed to the speech recognition system for separating each speaker's voice using speaker diarization. Then, the matcher matches the results of the visual speech recognition system and speaker diarization in order to create a sentence. Finally, the documentation unit creates separate documents for every person and stores them in an SD card. [To be published with Figure.1]



No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : A METHOD FOR TREATING HEXAGONAL BORON NITRIDE

(51) International classification :C01B0021064000, C08K0003380000, B29C0059140000, C22C0038520000, C04B0035583000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Abstract Title: A Method for Treating Hexagonal Boron Nitride The present invention provides a method for treating hexagonal boron nitride. The green approach of filler treatment is described via air plasma exposure, which followed eco-friendly principles. Hexagonal Boron Nitride (HBN) was distributed in a Polyvinylidene fluoride and Polysulfone polymer mix system after being treated with air plasma. Fourier transform and X-ray diffraction techniques were used to confirm the modified chemical and physical structure. At 1 kHz to 10 MHz, a synergic impact on dielectric polarisation frequency was seen as compared to an untreated dispersed blend (1Hz to 100HZ). The dielectric constant increase for 2, 4, and 6 wt% scattered HBN has been measured. The ability to tune a broadband frequency dynamic oscillator made up of pre and post-process HBN scattered is extremely important in the electronics area.

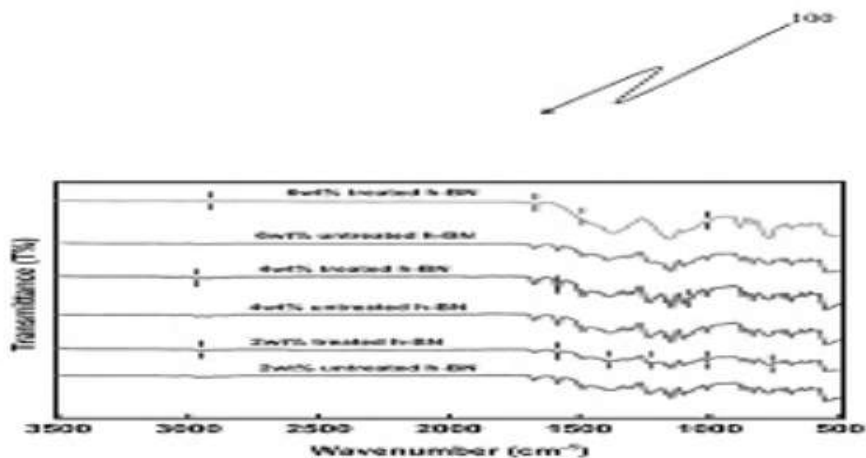


Figure 1

(54) Title of the invention : A PROCESS FOR PREPARING WINE FROM MAHUA WITH AN OPTIMUM SUGARFREE CONTENT

(51) International classification :A23C0009130000, C12G0003020000, C12P0007640000, C12P0003000000, C12N0001000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :
 Filed on :01/01/1900

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

Disclosed is a process for preparing Mahua wine with optimum sugar-free content (16-18g/L) comprising the steps of: i) converting the mahua materials into a mash by addition of 0.1-1% of jaggery and an effective amount of water; ii) obtaining a must from the mash as formed in step (ii) by pressing off; iii) adding a fermenting agent to the must as obtained step (iii) and subjecting the said product for fermentation at room temperature. Figure 1

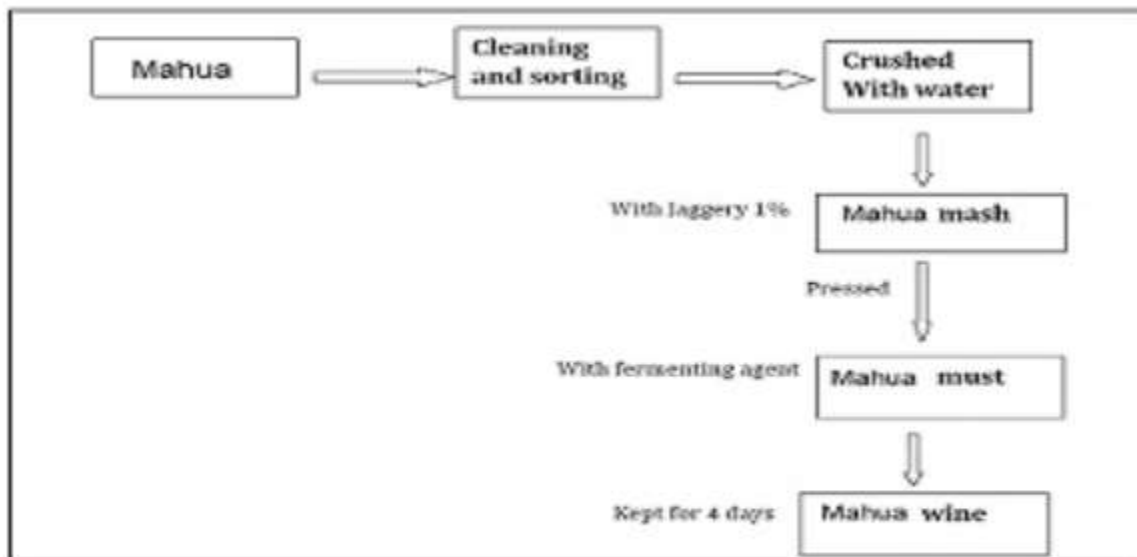


Fig. 1

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : A CHLOROPHYLLIN CONTAINING PHARMACEUTICAL COMPOSITION FOR PREVENTION OF PATHOGENESIS OF CORONAVIRUS DISEASE

<p>(51) International classification :C07K0014520000, A61K0031737000, A61K0031403000, A61K0038200000, A61K0031726000</p> <p>(31) Priority Document No :EP21162765.8 (32) Priority Date :16/03/2021 (33) Name of priority country :----- (86) International Application No :NA Filing Date :NA (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)THE SECRETARY, DEPARTMENT Address of Applicant :Anushakti Bhawan Chhatrapati Shivaji Maharaj Marg, Mumbai Maharashtra, India 400001 ----- 2)IDRS Labs Private Limited Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mahendra Joshi Address of Applicant :235-H, Phase 3, Bommasandra Industrial Area, Hosur Road, Bengaluru-560099, Karnataka, India ----- 2)Amarjit Giri Address of Applicant :235-H, Phase 3, Bommasandra Industrial Area, Hosur Road, Bengaluru-560099, Karnataka, India ----- 3)Shivkumar Madki Address of Applicant :235-H, Phase 3, Bommasandra Industrial Area, Hosur Road, Bengaluru-560099, Karnataka, India ----- 4)deepak Sharma Address of Applicant :SO/G, RB&HSD, Modular labs, Bhabha Atomic Research Centre, Trombay 400085- Mumbai, Maharashtra, India ----- 5)Santosh Kumar Sandur Address of Applicant :SO/H, RB&HSD, Modular labs, Bhabha Atomic Research Centre, Trombay 400085- Mumbai, India ----- 6)Vikram Prakash Gota Address of Applicant :SO/F, ACTREC, Department of Clinical Pharmacology ACTREC Tata Memorial Centre, Sector 22, Khargar 410210, Navi Mumbai, India ----- 7)Raghendra Shridhar Patwardhan Address of Applicant :SO/E, RB&HSD, Modular labs, Bhabha Atomic Research Centre, Trombay 400085- Mumbai, India ----- 8)Babita Singh Address of Applicant :SO/D, RB&HSD, Modular labs, Bhabha Atomic Research Centre, Trombay 400085- Mumbai, India ----- 9)Rahul Checker Address of Applicant :SO/F, RB&HSD, Modular labs, Bhabha Atomic Research Centre, Trombay 400085- Mumbai, India ----- 10)dharmendraKumar Maurya Address of Applicant :SO/F, RB&HSD, Modular labs, Bhabha Atomic Research Centre, Trombay 400085- Mumbai, India ----- 11)Sudeep Gupta Address of Applicant :ACTREC Tata Memorial Centre, Sector 22, Kharghar 410210, Navi Mumbai, India -----</p>
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(57) Abstract :
Pharmaceutical composition comprises of Chlorophyllin or salts thereof and its utilities including method of treatment, enabling the absorption of copper-isochlorin e4 into human blood that results in an increase in lymphocyte count and decrease in the abundance of hematopoietic stem and progenitor cells (HPSCs) in human blood. The invention is directed to the treatment of conditions including corona-virus infections, immunosuppression, leucopenia and lymphopenia. The composition disclosed in the invention is thus useful for the treatment of corona virus disease caused by SARS-CoV-2 virus infection by decreasing viral infection, reducing cytokine storm and pro-inflammatory chemokines, reducing epithelial cell oxidative stress in the lungs and increasing the production of leukocytes.

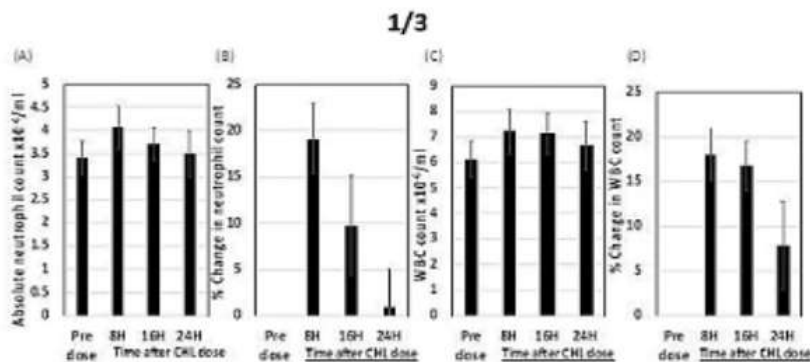


FIGURE 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127034826 A

(19) INDIA

(22) Date of filing of Application :02/08/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NOVEL FORMULATION OF HIGHLY CONCENTRATED PHARMACOLOGICALLY ACTIVE ANTIBODY

(51) International classification	:A61K0039395000, A61K0047260000, A61K0047180000, C07K0016240000, A61K0009190000	(71) Name of Applicant : 1)KASHIV BIOSCIENCES, LLC Address of Applicant :20, New England Avenue Piscataway, New Jersey 08854. ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:201921035059	(72) Name of Inventor :
(32) Priority Date	:30/08/2019	1)WEAVER, Bruce
(33) Name of priority country	:------	Address of Applicant :20, New England Avenue, Piscataway, New Jersey Piscataway, 08854 -----
(86) International Application No	:PCT/IB2020/058080	2)NARAYAN, Om
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(87) International Publication No	:WO 2021/038532	3)SHAH, Sumit Maheshkumar
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure describes pharmaceutically stable high concentration liquid formulations of antibody. Such formulations comprise, in addition to the antibody, at least one anti-aggregating agent selected from arginine or lysine, buffer and poloxamer 188. In addition, the present disclosure provides high concentrated antibody formulation having high monomer, low aggregates and desirable viscosity.

No. of Pages : 23 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127047324 A

(19) INDIA

(22) Date of filing of Application :19/10/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF AN AQUEOUS OPHTHALMIC SOLUTION OF DIFLUPREDNATE

(51) International classification	:A61K0009000000, A61K0031573000, A61K0009080000, A61K0047440000, A61K0047020000	(71) Name of Applicant : 1)SUN PHARMA ADVANCED RESEARCH COMPANY LIMITED Address of Applicant :17/B, Mahal Industrial Estate Off Mahakali Caves Road, Andheri (East) Mumbai, Maharashtra 400093 -----
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(32) Priority Date	:25/08/2021	Address of Applicant : NA
(33) Name of priority country	:-----	(72) Name of Inventor :
(86) International Application No	:PCT/IB2021/059213	1)HALDER, Arindam
Filing Date	:07/10/2021	Address of Applicant :Near Mathura Nagari, Sun Pharma Road, Vadodara, Gujarat 390020 -----
(87) International Publication No	:WO 2021/224902	2)KHOPADE, Ajay Jaysingh
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates an improved process for the preparation of an aqueous ophthalmic solution of difluprednate or pharmaceutically acceptable salts thereof. The present invention further relates to an aqueous ophthalmic solution of difluprednate or pharmaceutically acceptable salts thereof, prepared by the improved process of the present invention.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : WHOLISTIC WEARABLE DEVICE FOR MONITORING OF POST ANGIOPLASTY STATUS OF PATIENTS

(51) International classification :A61B0005024000, A61B0005053000, A61B0005110000, A61B0005000000, A61B0005160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Abstract Wholistic wearable device for monitoring of post angioplasty status of patients The invention provides a wearable solution for monitoring the health and performance of patients post-angioplasty surgery. There is an overcoat module (11). (1) and (2) are PCBs consisting of an IMU wherein (2) additionally has a transmission device, and microcontroller. (110) is wrist band module. (3) is the extension pads placed on the fingers. (4) is the wrist band connected to the pulse sensor. (31) are the galvanic skin response sensors. (41) is the case holding PCB containing transmission device and microcontroller. The device keeps track of the pulse rate, psychological stress, posture, and activity status of the patient. This data is stored and can be viewed by the doctor to understand the rises and falls in patient performance over time, which will allow them to assess risks to patient health and recommend a recovery plan. The usage of the device is intended to be an alternative to stress testing done in the 4-7 weeks post surgery. Fig1

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041051598 A

(19) INDIA

(22) Date of filing of Application :26/11/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AIR AND SURFACE DISINFECTION APPARATUS FOR A VEHICLE

(51) International classification :A61L0002200000, H05B0047105000, A61L0002180000, A61L0002240000, A61L0002100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

AIR AND SURFACE DISINFECTION APPARATUS FOR A VEHICLE An air and surface disinfection apparatus 100 for disinfecting a vehicle is provided. The air and surface disinfection apparatus 100 is adapted to attach/integrate to the vehicle. The air and surface disinfection apparatus 100 includes an accelerometer sensor 102, an ozone generator 104, a mist generator 106, an artificial intelligence model 110 and a microcontroller 108. When in operation, the artificial intelligence model 110 provides an instruction to the microcontroller 108 to start the disinfection cycle during the idle time. Upon receiving the instruction, the microcontroller 108 activates (i) the ozone generator 104 to generate ozone, for disinfecting the vehicle during the idle time, and (ii) the mist generator 106 to generate mist for a predefined time period at period intervals to improve the vehicle disinfection. FIG. 1

No. of Pages : 33 No. of Claims : 10

(54) Title of the invention : A MODULAR POWERTRAIN FOR A MOTORCYCLE

(51) International classification :B29C0065020000, E05B0063000000, H05K0007140000, H05K0005020000, H01R0009260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A MODULAR POWERTRAIN FOR A MOTORCYCLE ABSTRACT A modular powertrain 100 for a motorcycle 110, comprising a housing assembly 210 and a removable module 500. The housing assembly 210 comprises one or more first guide rail 230 protruding angularly from at least one side of the housing assembly 210, a door 240 comprising one or more second guide rail 250 extending axially from the at least one rail trail 230 of the housing assembly 210, a curved protrusion and/or a clamp 410 extending radially from top of the housing assembly 210, and a manual knob 420 with a rotating lock and release mechanism positioned at the other end of the housing assembly 210. The removable module 500 comprises of a spring-loaded lock 510 configured to slide in the curved protrusion and/or the clamp 410 of the housing assembly 210 to arrest the removable module 500 in the housing assembly 210, one or more recess 520A, 520B on at least one side of the removable module 500 in the one or more first guide rail 230 of the housing assembly 210 to hold the removable module 500, and a power supply means 530 mechanically coupled to gear box of the motorcycle 510. The housing assembly 210 configured to hold and secure the removable module 500 for providing power to the motorcycle 110. Figure 1.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057198 A

(19) INDIA

(22) Date of filing of Application :30/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : IMPLEMENTATION OF ALERT SYSTEM DEVICE (ASD) FOR THE AVOIDANCE OF ACCIDENTS AT CURVE PRONE AREAS

<p>(51) International classification :G08G0001160000, A47C0020020000, A61B0017000000, C25D0011260000, A61K0009510000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Gnaneshwara Chary U Address of Applicant :4-9-31/7, Sanjaynagar, Adilabad, Telangana, 504001, India -----</p> <p>2)Bhawana Rudra 3)Mummadi Swathi 4)Syed Abudhagir U 5)Balaji R 6)Jigarkumar Jhavarbhai Patel</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Gnaneshwara Chary U Address of Applicant :4-9-31/7, Sanjaynagar, Adilabad, Telangana, 504001, India -----</p> <p>2)Bhawana Rudra Address of Applicant :101, SMR sterling, Bapuji Nagar, Bowenpally, Secunderabad, Cantonment, Telangana, 500011, India -----</p> <p>3)Mummadi Swathi Address of Applicant :4-9-31/7, Sanjaynagar, Adilabad, Telangana, 504001, India -----</p> <p>4)Syed Abudhagir U Address of Applicant :5, Ajeez Nagar, 2nd Street, Aruppukottai, Virudhunagar District, 626101, Tamil Nadu, India -----</p> <p>----</p> <p>5)Balaji R Address of Applicant :17, Chekkumedu, Pennagaram Post, Dharmapuri District, Tamil Nadu, India -----</p> <p>6)Jigarkumar Jhavarbhai Patel Address of Applicant :At. Post, Motawaghchhipa, Parvasa Road, Ta. Pardi, Dist-Valsad, Gujarat, 396125, India -----</p>
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(57) Abstract :

NA

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057251 A

(19) INDIA

(22) Date of filing of Application :30/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SMART ROAD ASSET MANAGEMENT SYSTEM AND METHOD THEREOF

<p>(51) International classification :G06Q0010060000, G06F0017160000, G06N0003080000, G06K0009620000, G06T0001000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Indian Institute of Science Address of Applicant :C V Raman Road, Bangalore -560012, Karnataka, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)VERMA, Ashish Address of Applicant :Associate Professor, Transportation Systems Engg. (TSE), Dept. of Civil Engg., Indian Institute of Science (IISc), Bangalore - 560012, Karnataka, India. -----</p> <p>2)TIWARI, Aruna Address of Applicant :Associate Professor, Computer Science and Engineering, Indian Institute of Technology Indore (IIT), Khandwa Road, Simrol, Indore - 453552, Madhya Pradesh, India. -----</p> <p>3)KUMAR, Neetesh Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Indian Institute of Technology Roorkee (IITR), Uttarakhand -247667, India. -----</p> <p>4)PATIDAR, Sanjay Address of Applicant :Assistant Professor, Department of Software Engineering, Delhi Technological University (DTU), Bawana Road, Shahbad Daulatpur Village, Rohini, Delhi - 110042, India. -----</p> <p>5)SINGH, Upendra Address of Applicant :CEO, Innovation House Technologies Private Limited, Delhi -110040, India. -----</p>
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(57) Abstract :

The present disclosure relates to image processing techniques and more particularly to method and system for managing road asset using smart road asset management system. The system may capture real time images of road infrastructure using one or more image capturing units and classify the real time images into road asset categories based on image classifier model. System may determine fault associated with each of the classified real time images, based on predefined image processing rules and determine dimensional parameters associated with the determined fault using one or more sensing units. Further, the system may predict overall material required for rectifying the determined fault based on the determined dimensional parameters and output the predicted overall material required for the predicted overall material required for rectifying the determined fault.

No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057273 A

(19) INDIA

(22) Date of filing of Application :30/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : Portable Haemoglobin Analyzer

(51) International classification :G06F0001160000, G01N0033720000, A62C0003070000, H01B0003420000, H04L0012260000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT Portable Haemoglobin Analyzer A blood analyser to estimate haemoglobin content in blood that is portable, low cost, low weight gadget that can operate even with sunlight is disclosed. The device comprises of a sample holder, a blood sampler, a spectrum absorber, and a power source. In the device, a drop of blood is placed on a sample holder, and this blood is analysed by specifically absorbing the haemoglobin spectrum of light while cancelling out the light scatter by Blood cells by the spectrum absorber.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057274 A

(19) INDIA

(22) Date of filing of Application :30/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : Control of Asymmetric Powered UAV

(51) International classification :B64C0039020000, F02K0001000000, F21V0013020000, B29C0049600000, C10L0001222000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT Control of Asymmetric Powered UAV A UAV which consists of a small aerodynamic control surface (1) attached with propulsion units for vectoring the thrust, to avoid the RPM-Thrust saturation limit, which enables the stable flight of UAV with asymmetric propulsion units is disclosed. Most illustrative figure is Fig.2

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057275 A

(19) INDIA

(22) Date of filing of Application :30/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : Real-time Artificial Intelligence (AI) Based Waste Segregation Using Robotic Arm

(51) International classification :B25J0009160000, B25J0019000000, B25J0015000000, A61B0034300000, B25J0015040000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT Real-time Artificial Intelligence (AI) Based Waste Segregation Using Robotic Arm A robot having robotic arm which collects the waste from the environment is disclosed. The robot may be designed by using a combination of equipment such as motors, drivers and sensors connected to the raspberry pi. The Robot consists of two collecting boxes, one for biodegradable and another for non-biodegradable wastes. By using different sensors, the robot identifies the difference between these two types of wastes. So, it is easy to collect the waste materials in different boxes. Once the boxes are filled, the robot moves to the disposal plant, and deposits the garbage on different locations. Most illustrative figure is Fig.1

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057446 A

(19) INDIA

(22) Date of filing of Application :31/12/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : ALL COMPOSITE LINER-LESS CNG PRESSURE VESSELS

(51) International classification :F17C0001060000, F17C0001160000, F16J0012000000, B29C0070200000, B29C0053600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT All Composite Liner-Less CNG Pressure Vessels A pressure vessel is disclosed that can be fabricated by developing a cylinder (1) using carbon/glass fiber combination, on a collapsible mandrel. End domes (2) are fabricated separately and are attached to the ends of the cylinder (1), thus creating a single unit of the pressure vessel. Then the cylinder (1) with the end domes (2) are wound with carbon and glass fiber roving alternatively with three winding combinations: hoop, helical and polar, to prevent the permeation. Resin modifiers are used to improve fracture toughness, reduce microcracks and prevent fire hazards. Main illustrative figure is Fig.1

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000135 A

(19) INDIA

(22) Date of filing of Application :04/01/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A NOVEL INSTRUMENT TO DETERMINE THE MOVEMENT OF WATER THROUGH INTER FIBRE CAPILLARIES OF TEXTILE FABRIC USING COLOR SENSORS

(51) International classification :G01J0003500000, G06F0001323400, D01F0001100000, G02B0006360000, G01J0003460000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT The present invention relates to an instrument that is specially designed to evaluate the movement of water through inter fibre capillaries of textile fabric precisely by non-contact method using color sensors. The said color sensor based non-contact novel tester which falls in line of standard test procedure and is capable of automatically recording the vertical and horizontal capillary movement with respect to time. Figure 1

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000468 A

(19) INDIA

(22) Date of filing of Application :05/01/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DIGITAL LOCK SYSTEM AND METHOD THEREOF

(51) International classification :G07C0009000000, C22C0038020000, G06F0013280000, G06F0013420000, E05B0019000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to security device. More particularly, the present invention relates to a secure digital lock system. Further the present invention relates to a method of working of the secure digital lock system. The digital lock system comprising multiple user profiles with user devices associated with plurality of pass codes in the mobile application and a plurality of digital lock devices [100]. The digital lock device [100] comprises a shackle [1], a key pad membrane [18] comprising two or more hard press keys, an electronic circuit board [15] comprising a microprocessor and a firmware, a motor, a cam [24], a locking lever [21] and an alert unit [11]. Advantageously, the present invention relates to a secure digital lock system with punching pass code using keypad with no limits in number of users per lock, no direct communication to avoid possible cloning and provides dynamism in user access. FIGURE 2.

No. of Pages : 39 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141018524 A

(19) INDIA

(22) Date of filing of Application :22/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART KINESTHETIC AND ERGONOMICALLY ENGINEERED DEVICE FOR ADEPT DENTISTRY (SKEEDAD)

<p>(51) International classification :A61F0005020000, G06F0003048400, A47C0031120000, A41D0001040000, G01F0001680000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NELLAMAKADA THEERTHA DEVAIAH Address of Applicant :HIG-20, HUDCO COLONY, JYOTHINAGAR POST, CHIKAMAGALURU-577102, KARNATAKA, INDIA. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)NELLAMAKADA THEERTHA DEVAIAH Address of Applicant :HIG-20, HUDCO COLONY, JYOTHINAGAR POST, CHIKAMAGALURU-577102, KARNATAKA, INDIA. ----- 2)Dr.SHASHIDARA RAJU Address of Applicant :HEAD OF THE DEPARTMENT, DEPARTMENT OF ORAL PATHOLOGY, COORG INSTITUTE OF DENTAL SCIENCES, VIRAJPET-571218, KARNATAKA, INDIA ----- 3)HARISH SHETTY Address of Applicant :ENUSN TECHNOLOGIES, SHOP/ROOM NO.14 (NO-8), CORPORATION NEW NO-1098/4, FIRST FLOOR, OTC ROAD, BANGALORE-560002, KARNATAKA, INDIA -----</p>
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(57) Abstract :

The present invention describes a smart kinesthetic and ergonomically engineered device for adept dentistry (SKEEDAD) 10. The device comprises a vest 14 and a circuit unit 18. The circuit unit 18 is coupled with one or more sensors (20, 22, 24, 26 and 28). The sensors (20, 22, 24, 26 and 28) are placed at neck/cervical region, right side of the shoulder, left side of the shoulder, upper back region and lower back region. The sensors get activated 54 once the battery is connected and the unit is switched on 52. When a faulty posture is detected 58 by the device 10, a beep and vibratory notification 60 will be given which alerts the clinician and thus aids in the self-correction of the improper posture and further adapt as well as maintain a better ergonomic practice.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025369 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NOVEL DESIGN AND FABRICATION OF A UNITYSAT SOLAR PANEL FOR CUBE SATELLITES AND PICO-SATELLITES

<p>(51) International classification H01Q00128000, B64G000140000, H01Q001120000, B64G000110000, B31Y000000000</p> <p>(56) International Application No NA</p> <p>(57) International Publication No NA</p> <p>(61) Patent of Addition to Application Number NA</p> <p>(62) Divisional to Application Number NA</p>	<p>(71) Name of Applicant : 1) Dr. KANAPATHY GOPALAKRISHNAN Address of Applicant: EMERITUS PROFESSOR & ACADEMIC COUNCIL MEMBER, SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, LET BY-PASS, COIMBATORE, TAMIL NADU, INDIA - 641 062</p> <p>Name of Applicant :NA Address of Applicant :NA (72) Name of Inventor : 1) Dr. KANAPATHY GOPALAKRISHNAN Address of Applicant: EMERITUS PROFESSOR & ACADEMIC COUNCIL MEMBER, SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, LET BY-PASS, COIMBATORE, TAMIL NADU, INDIA - 641 062</p> <p>2)MITHUN VENKAT Address of Applicant: SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, H404 FACULTY MEMBERS-SATELLITE TEAM @ SRIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, LET BY-PASS, COIMBATORE,CHENNNYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062</p> <p>3)DUSAN RADOSAVJEVIC Address of Applicant: SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, H404 FACULTY MEMBERS-SATELLITE TEAM @ SRIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, LET BY-PASS, COIMBATORE,CHENNNYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062</p> <p>4)Dr. SACHIN UNTAWALE Address of Applicant: SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, H404 FACULTY MEMBERS-SATELLITE TEAM @ SRIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, LET BY-PASS, COIMBATORE,CHENNNYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062</p> <p>5)PROF.M. 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(57) Abstract :

This patent disclosure covers Novel Design and Fabrication of a UNITYsat Structure for Pico-Satellites as described above in Figures 1 to 8. The UNITYsat is SlimSatellite under 1U category and hence, it is called Pico Satellite. UNITYsat consists of 6 solar panels. Two 1U panels on the Z+ and - face and 4 of 0.25U/0.35U panels on the sides faces. The Z+ panel has bum resistors to assist with antenna deployment, and the Z- face has mounting holes for the antenna and differs from the Z+ face in that it has a Balun and a MMCX RF connector for the antenna. The design and fabrication technique in general and Z+ and Z- faces are 1U in size is also applicable to Cube satellites as well.

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(57) Abstract :
ABSTRACT OF THE INVENTION This patent disclosure covers the System and Method of Selection of Hardware for UNITYsat Deliverables as described in Figure 1 and Table 1 to 5. The process of selection of various subsystems and components are based on the mission objectives and selection of orbit for the UNITYsat. It is also important to decide the active life of satellite and orbital mechanics before deciding the systems and sub-systems. The invention described the methodology and system to be followed as per the Division Support System presented in Fig 1 considering the various system requirements, mission objectives, Type of payloads, heritage table and orbit to be launched, type of payloads, ground stations etc. per CCSC/ISA Standards, data sheet, past experience, literature review along with real time input and update on mechanics in nature. Contemporary approach and better understanding of systems engineering helps in utilizing the described invention under the title System and Methods of Selection of Hardware and BOM for UNITYsat Deliverables more effectively.

No. of Pages :7 No. of Claims :5

(54) Title of the invention : NOVEL DESIGN, METHOD AND FABRICATION OF WIRE ROPE VIBRATION ISOLATORS IN DEPLOYER FOR CUBE SATELLITE/PICO-SATELLITES

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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers Novel Design, Method and Fabrication of Wire Rope Vibration Isolators in Deployer for Cube Satellites/Pico-Satellites as described above in Figures 1 to 8. Sensitive aircraft and satellite parts also often need protection from the vibrations and accidental impacts that can occur during transport from the production plant to the final assembly site. For this purpose, transport pallets and containers are made using wire rope isolation technology to absorb and dissipate unwanted stress. Throughout their working lives, electronic parts used in aero planes, rockets and satellites are subject to the vibrations present in the structure of the vehicle in which they are installed. The main sources of vibration include the engines, propellers and rotors of aero planes and helicopters, and acceleration during the launch of rockets for placing satellites in orbit. In addition to protecting cargo at launch: Satellites, equipment for Space Station or Interplanetary missions (e.g. Rovers for Moon or Mars), WFLs can also be helpful in protecting the module that houses Astronauts at launch. Anti-vibration mounts are often fitted to enable electronic components to pass compliance tests and then continue functioning properly during their working lives. These supports must not only isolate the equipment, but should do so with extreme reliability over time and be of minimal weight.

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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers Novel Design and Fabrication of a UNITYsat Structure for Pico-Satellites as described above in Figures 1 to 17. The structure is machined from a single aluminium block and further abodized to prevent cold welding of the structure rails to the P-POD. The main structure serves as the support structure for all faces excluding the Z+ face. The Z+ face is a 1.5mm machined and anodized aluminium sheet that is secured to the main structure using the standoffs used to mount the PCBs to the body. Four M3 Screws in a rectangular pattern are used to hold the top cap secure to the standoffs. The structure has provision to accommodate the Deployment Kill Switch. The purpose of deployment switch is to disconnect the battery from the loads when the satellite is loaded in the deployer. The deployment switches are in activated position due to physical force applied to them. When deployed the switches are released creating an electrical connection from the battery to the loads and providing power to all the systems of the satellite.

(54) Title of the invention : NOVEL SYSTEM, DESIGN AND DEVELOPMENT OF V-DIPOLE ANTENNA CHARACTERISTICS WITH ADDED REFLECTORS FOR

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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers Novel System, Design and Development of V-Dipole Antenna Characteristics with Added Reflectors for NOAA/METEOR Satellite Image Reception with Novel Element Holder System Produced by Additive Manufacturing Technology as described above in Figures 1 to 5. This patent disclosure describes the design and development of a V-Dipole antenna that is slightly special in its characteristics, this antenna was simulated using the MMANA-GAL software. The designed antenna works at a center frequency of 137 Mhz with an omnidirectional radiation pattern. The analysis process involves analyzing the data receiving process with return loss parameter, signal to noise ratio (SNR), noise floor and image. The process of receiving data is by connecting an antenna with RTL-SDR, SDRSharp software, Wxtoimg, and Gpredict that has been installed on a laptop. The data received are return loss value, noise floor. The antenna parameters for Double V Double Dipole with reflector are VSWR 1.63, input impedance 50.0 Ohm and Gain 6.62 dB. The gain of the antenna suggests that the antenna will have a good radiation pattern. Each characteristic of this antenna comes with its advantages and disadvantages of course with respect to the location and height above sea level.

No. of Pages : 7 No. of Claims : 5

(51) International classification :H04B0007185000, H04B0001000000, B64G0003000000, H01Q0001220000, H04B0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(57) Abstract :
ABSTRACT OF THE INVENTION The patent disclosure covers Novel System, Design, Method and Making of UNITYsat Ground Control Station (GCS) as described in Fig 1 to 5. The UNITYsat has an ultra-compact form factor. All the major subsystems of the satellite, such as Electrical Power System (EPS) and On-Board Computer (OBC), Telemetry/Antenna along with suitable Payloads are designed to fit into metal chassis of 100 mm x 100 mm x 38 mm. The proposed Ground Station and Network, Optimized for Modularity, Built to Last! Affordable! As described Software Defined Radio and Ground Station Sub-systems along with Method and System of Working including the Curved Screen Set-up constitute the Invention.

(54) Title of the invention : NOVEL SYSTEM, DESIGN, METHOD AND MAKING OF UNITYSAT ON-BOARD COMPUTER (OBC)

(51) International classification :G07C0005080000, H04B0007185000, H02M0003335000, B64G0003000000, B64G0001660000

(86) International Application No :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA

(62) Divisional to Application Number :NA

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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers Novel System, Design, Method and Making of UNITYsat On-Board Computer (OBC) as described above in Figures 1 to 5. The UNITYsat has an ultra-compact form factor. All the major subsystems of the satellite, such as Electrical Power System (EPS) and On-Board Computer (OBC), Telemetry/Antenna along with suitable Payloads are designed to fit into metal chassis of 100 mm x 100 mm x 38 mm. The UNITYsat OBC is designed as compact, efficient and capable of handling harsh space environment. The PCB is designed to make use of all the interfaces and power the OBC can provide.

(51) International classification :B64G0003000000, G01S0019140000, G01S0019420000, B64G0001100000, H04B0010118000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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 Filing Date :NA

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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers Novel Design, Method of TSC SatNav Amateur Radio Satellite Tracker and Pass Predictor for Android Devices as described above in Figures 1 to 10. Satellite Navigation (SatNav) is an amateur radio satellite tracker and pass predictor for Android Devices. This app provides several search methods to track satellites in real time. It allows users to search from a database of over 15,000 tracked space objects, including the International Space Station, Hubble Space Telescope, surveillance satellites, and other popular satellites. Thanks to the huge database provided by Celestrak and SatNOGS we have access to more than 3000+ active satellites orbiting Earth at this very moment. Users can search the entire Database using a satellite name or by NORAD catalog number. Track them with ease!

(54) Title of the invention : NOVEL SYSTEM, DESIGN AND METHOD OF CUBESAT TESTING FIXTURE FOR LAUNCH VEHICLE ENVIRONMENTAL

(51) International classification :B64G0001640000, B64G0001000000, B64G0001100000, B64G0001400000, B64G0001220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(71)Name of Applicant :
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(57) Abstract :
ABSTRACT OF THE INVENTION The patent disclosure covers Novel System, Design, Method and Making of CubeSat Testing Fixture for Launch Vehicle Environmental Qualification Tests of Cube Satellites (CubeSat). CubeSats or QubeSats are a real satellite, where all the subsystems are integrated within the volume and shape of a small cube (100 mm x 100 mm) with 100 or 200 or 300 mm long in size (1U, 2U or 3U respectively and so on). However, these types of CubeSats need to be qualifying for the launch and could be able to withstand the environmental conditions of launch vehicles and also the hostile nature of space environments. Predominantly the launch vehicle environmental tests are shock tests and vibration tests. For example, Polar Satellite Launch Vehicle's (PSLV), Flight Environment Tests consist of Sinusoidal Vibration Tests and Shock Tests! The primary role of CubeSat fixture is to hold the satellite firmly with the test bed and at the same time, not to damage the satellite structure and solar cells mounted on the structure with or without deployable solar panel(s)! It has to withstand the huge loads of shock and vibrations during the test, up to 7g load!

(54) Title of the invention : NOVEL DESIGN FOR A STAND-ALONE ELECTRONIC POWER SYSTEM (EPS) FOR PICO-SATELLITES

(51) International classification :H05K0001020000, B64G0001100000, H02J0003380000, H05K0001180000, H02S0010400000

(86) International Application No :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA

(62) Divisional to Application Number :NA

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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers Novel Design and Fabrication of a Stand-alone Electronic Power System (EPS) for Pico-Satellites as described above in Figures 1 to 6. The Electronic Power System (EPS) is an integral part of an orbital satellite. The EPS is responsible for the generation of power from external sources, conditioning of power generated, storage and distribution of power to the other subsystems of the satellite. This patent describes the design of the EPS for the UNITY-Sat. The UNITY-Sat is an ultra-compact pico-satellite that follows the California Polytechnic CubeSat 101 design standard. All major subsystems of the satellite, the On-Board computer (OBC) the EPS and the communication blocks are present on a single 4 layer Printed Circuit Board (PCB). The satellite is 115mm along the X-axis, 110.2mm along the Y-axis and 38mm along the Z-axis as shown in Figure 1.

No. of Pages : 8 No. of Claims : 10

(54) Title of the invention : SYSTEM, DESIGN, METHOD AND MAKING OF SUBSYSTEMS FOR CANSAT

(51) International classification :B64G0001000000, C12N0005000000, B64G0001420000, B01D0061100000, B64G0001100000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT OF THE INVENTION This patent disclosure covers design and fabrication of System, Design, Method and Making of Subsystems for CanSat as described above in Figures 1 to 5. This patent disclosure covers design and fabrication of a method of the CanSat Subsystems which have been designed in such a way to simulate the functions of a real satellite, integrated within the volume (350 ml) and shape of a soft drink can. The challenge here is to fit all the major subsystems found in a satellite, such as power system, sensors and a communication system, into this minimal volume. The CanSat is then launched to an altitude of a few hundred meters by a rocket or dropped from a platform or captive balloon and its mission begins: to carry out a scientific experiment and achieve a safe landing with the help of parachutes.

(54) Title of the invention : NOVEL SYSTEM, DESIGN, METHOD AND MAKING OF CANSAT STRUCTURE

(51) International classification	:H01Q002100000, H01Q000136000, G06F003000000, H01Q000142000, H01Q000128000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
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(57) Abstract :
 This patent disclosure covers design and fabrication of Novel System, Design, Method and Making of CanSat Structure as described above in Figures 1 to 8. This patent disclosure covers design and fabrication of a method of the CanSat Structure which has been designed in such a way to accommodate all subsystems of CanSat within compact volume (form factor) of 350 ml which provides the opportunity to have safely the tiny satellite with all functional elements inside the structure of CanSat. The structure can be cut from flat Aluminum sheet (1.5 mm to 3mm) and then formed in bending machine to circular/cylindrical along with the customization during the process. After forming it can be welded together as per design to avoid warping. The compact volume (form factor) of 350 ml which provides the opportunity to have safely the tiny satellite with all functional elements inside the structure of CanSat Also, the antenna can be deployed through the slots provided in the structure of CanSat during the launch, easily. 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025381 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NOVEL DESIGN AND FABRICATION OF HANDS-ON LEARNING CLASS ROOM CANSAT AND CUBESAT (HLCR-CS2)

(51) International classification

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(86) International Application No Filing Date

:NA :NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number Filing Date

:NA :NA

(62) Divisional to Application Number Filing Date

:NA :NA

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(57) Abstract :

This patent disclosure Novel Design and Fabrication of Hands-on Learning Class Room CanSat and CubeSat (HLCR-CS2) as described above in Figures 1 to 7. Learning by Doing happens with class room satellites. Class Room CanSat and CubeSat (1U/2U etc) are functional Nano or Pico Satellite designed and fabricated in such a way for facilitating teaching and learning of spacecraft systems engineering in the classroom environment for the beginners and also at the laboratories of Engineering Educational Institutions (EEl). It is the Complete Satellite Simulator or Functional Satellite with all the major Sub-systems of real Satellite for indoor class room training/applications at Schools/EEl.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141040285 A

(19) INDIA

(22) Date of filing of Application :06/09/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF 2-(3,4-DIMETHYLPHENYL)-5-METHYL-1H-PYRAZOLE-3(2H)-ONE

(51) International classification :H05K0003460000, B01J0023740000, C07D0251340000, A61K0008810000, C07C0045530000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT An improved process for the preparation of 2-(3, 4-Dimethylphenyl)-5-methyl-1H-pyrazol-3(2H)-one having the structural formula (I).

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : MOBILITY-AWARE INTELLIGENT FRAMEWORK FOR FOG BASED AMBULATORY SERVICES

<p>(51) International classification :G06Q0050220000, G16H0040200000, A61B0005000000, A61B0005020500, G16H0040670000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)G. JEYASHREE Address of Applicant :RESEARCH SCHOLAR, DEPT OF INFORMATION TECHNOLOGY, THIAGARAJAR COLLEGE OF ENGINEERING, GST ROAD, THIRUPARANKUNDRAM, MADURAI - 625015, TAMIL NADU, INDIA. ----- -</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)G. JEYASHREE Address of Applicant :RESEARCH SCHOLAR, DEPT OF INFORMATION TECHNOLOGY, THIAGARAJAR COLLEGE OF ENGINEERING, GST ROAD, THIRUPARANKUNDRAM, MADURAI - 625015, TAMIL NADU, INDIA. ----- -</p> <p>2)Dr. S. PADMAVATHI Address of Applicant :DEPT OF INFORMATION TECHNOLOGY, THIAGARAJAR COLLEGE OF ENGINEERING, GST ROAD, THIRUPARANKUNDRAM, MADURAI - 625015, TAMIL NADU, INDIA. ----- -</p> <p>3)Dr. S. KANTHAMANI Address of Applicant :DEPT OF INFORMATION TECHNOLOGY, THIAGARAJAR COLLEGE OF ENGINEERING, GST ROAD, THIRUPARANKUNDRAM, MADURAI - 625015, TAMIL NADU, INDIA. ----- -</p>
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(57) Abstract :

Most people in rural India opt for government healthcare facilities/ Primary Health Centers (PHC) because of monetary issues and as transport options to the urban centres are not very affordable. Ambulatory care is the medical services provided which doesn't require hospitalization and are likely also pre-scheduled. This service includes diagnosis, observation, consultation, treatment, intervention, and rehabilitation services. It can even include advanced medical technology and procedures if the care is provided outside of a hospital setting. The ambulatory care facility will visibly and functionally propel our health system into the vanguard of advanced health system in the rural region. It creates an innovative model that leverages existing resources. Awareness and the acceptance of technology-based medical advice, coupled with the penetration of smartphones and the internet, have triggered a shift in behavior towards home care. Additionally, home healthcare for people in remote rural places is likely to be incorporated in steps, beginning with follow-up checks, or post-operative care where patients are also willing to accept online consultation. The existing primary health centre/rural health centre can be used to satisfy the rural needs as Ambulatory care service. To address this challenge, a mobility aware, intelligent framework using fog infrastructure is proposed to monitor the elders and chronic patients in rural areas remotely. This low-cost infrastructure consists of wireless wearable sensors such as ECG, pulse rate, pressure and temperature sensors. The mobile device with them has in built motion sensors, gyroscope which supports mobility. Through sensors, the data/signals are sensed and send to the Near-by Primary healthcare center (PHC)/Rural health care center for further processing. Each processing system in a PHC is considered to be a fog node, where the ML algorithm will run. The continuous data is classified by the trained model and immediately send the notification to the care taker and remote hospital if any abnormal situation occurs. The proposed framework is flexible and able to continuously monitor the patients without any disturbance during their mobility as their data transmission will automatically switch between nearby PHC's based on the connectivity range.

No. of Pages : 6 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048462 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A MULTI-SWITCH FAULT-TOLERANT BLDC MOTOR DRIVE SYSTEM FOR LOW POWER ELECTRIC VEHICLES

(51) International classification :H01H0047000000, H02P0006000000, H03F0003450000, H02P0006280000, H02P0027060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention proposes a multiple switch OC/SC fault-tolerant BLDC motor drive system comprises a 2-level voltage source inverter fed with a single DC power supply to convert unidirectional voltage waveform into a bidirectional voltage waveform; a star-connected BLDC motor with one side of its phase terminals connected to output terminals of VSI through SPDT relays; at least three power poles (legs) and three SPDT relays with their poles connected to the motor phase terminals; a transistor based SPDT relay energization circuitry connected to a capacitor bank for receiving supply derived from the terminals of one of capacitor banks of the VSI and relays corresponding to the faulty legs are energized by firing their transistor bases; and a DC link current sensor and three analog voltage sensors comprising of a differential amplifier and an analog isolation amplifier for sensing the line voltages to diagnose the OC/SC faults.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049234 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DATA INTEGRATION

(51) International classification :G06F0016250000, G06F0016955000, C22C0038140000, G06F0016220000, B01J0037030000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT Data Integration Data integration is the issue of consolidating data from deferent sources. Dierently from the database context, where datasets are homogeneous, in the web of data context datasets are heterogeneous, implying that their instances and schemas to a great extent change. This natural attribute of heterogeneous data presents new issues, causing existing instance matching ways to deal with perform less well than anticipated. Moreover, the decentralized idea of the web of data brings new difficulties. The present invention discloses a novel Data Integration algorithm for Heterogeneous data based on Graph based Semantics Integration and Aggregation

No. of Pages : 30 No. of Claims : 3

(54) Title of the invention : LINEN COLLECTION TROLLEY

(51) International classification :A47C0021020000, A61L0009000000, D06F0095000000, B65F0003000000, A47K0010280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT LINEN COLLECTION TROLLEY This invention is related to the field of mechanical engineering. More particularly the invention is an apparatus to improve hygiene while collecting and transporting linen in high use areas such as hospitals, hotels and care centres. This invention discloses a linen collection trolley which has 3 compartments. We can collect the clean linen in upper compartment, less soiled in middle compartment and linen with contaminated by patient’s fluids in lower compartment. The normal linens are less contaminated than the one with the patient body fluid. Segregation of linens into various compartment make the bed making process more effective as the more soiled linens are separately washed from the less soiled. As the treatment becomes different so this reduces the chances of cross contamination

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141050713 A

(19) INDIA

(22) Date of filing of Application :05/11/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : STERILE PACK DRESSING WITH COVERTURE

(51) International classification :A61F0013000000, A61L0026000000, A61M0035000000, A61L0015440000, A61K0036480000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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Filing Date :NA

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(57) Abstract :

ABSTRACT STERILE PACK DRESSING WITH COVERTURE This invention is related to the field of medical devices. More particularly the invention is a sterile pack dressing that enables isolation of the wound, provides sterile environment and promotes quick healing. The Sterile pack dressing with covertures includes an Adhesive nano gauze. This gauze absorbs the drained exudate and prevents leakage of this. A layer of Antiseptic cream or ointment is present on one side of the gauze. The gauze is applied on the wound such that the ointment is applied on the wound. After the gauze is applied on the wound a coverture is applied over it to completely cover the area.

No. of Pages : 9 No. of Claims : 1

(54) Title of the invention : SYSTEM AND METHOD FOR ANALYZING AND ESTIMATING CLIMATIC CONDITIONS OF A SPECIFIC LOCATION

(51) International classification :G01W0001140000, G08C0017020000, G06Q0040060000, A01G0015000000, G01W0001000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 A system (100) and method for analyzing and estimating climatic conditions of a specific location. The method includes a step of extracting, by one or more processors, rainfall data from a plurality of satellite commercial television (TV) dishes signals operating at either Ku-band signals or Ka-band signals to obtain rain intensity. The method includes a step of determining a rain rate through a hardware chip connected to a set-up box via a communication module with a wireless module that records the signal intensity with respective local time. The one or more processors are connected to the hardware chip. The method includes a step of transmitting the recorded signal intensity data to a central database (102) via the network (106) for extraction of respective attenuation from the signal intensity for estimating climatic conditions, possible rain accumulation, and the vertical structure of a local climate of the specific location.

(54) Title of the invention : EXPERIMENTAL INVESTIGATION ON HYBRID DOUBLE SLOPE SOLAR STILL INTEGRATED WITH PV/T SYSTEM

<p>(51) International classification :C02F0001140000, C02F0103080000, C02F0001000000, C02F0001040000, B01D0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. M. SUDHAKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SRI SAIRAM ENGINEERING COLLEGE, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI - 600044. -----</p> <p>2)Dr. RAVISHANKAR SATHYAMURTHY</p> <p>3)Dr. A. RAJENDRA PRASAD</p> <p>4)Dr. G. PUTHILIBAI</p> <p>5)Mr. C. JEEVA</p> <p>6)Mr. S. MADHAVARAO</p> <p>7)Ms. V. DEVATARIKA</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1) Mr. M. SUDHAKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SRI SAIRAM ENGINEERING COLLEGE, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI - 600044. -----</p> <p>2)Dr. RAVISHANKAR SATHYAMURTHY Address of Applicant :KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, KPR INSTITUTIONS, AVINASHI ROAD, ARASUR, INDIA, 641407 -----</p> <p>3)Dr. A. RAJENDRA PRASAD Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SRI SAIRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI, TAMIL NADU, INDIA - 600044. -----</p> <p>4)Dr. G. PUTHILIBAI Address of Applicant :PROFESSOR, DEPARTMENT OF CHEMISTRY, SRI SAIRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI, TAMIL NADU, INDIA - 600044. -----</p> <p>5)Mr. C. JEEVA Address of Applicant :ASSISTANT PROFESSOR ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT, SRI SAIRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI, TAMIL NADU, INDIA - 600044. -----</p> <p>6)Mr. S. MADHAVARAO Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SAGI RAMA KRISHNAMRAJU ENGINEERING COLLEGE(A), BHIMAVARAM, ANDHRA PRADESH, INDIA, 534204 -----</p> <p>7)Ms. V. DEVATARIKA Address of Applicant :PLOT NO:89, 4TH CROSS ST, MADAMBAKKAM, CHENNAI, TAMIL NADU, INDIA, 600126 -----</p>
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(57) Abstract :

Present investigation discloses the efficient system to produce clean drinkable water from solar energy conversion. Distillation is one of many processes that can be used for water purification. This requires an energy input as heat, electricity and solar radiation can be the source of energy. When Solar energy is used for this purpose is known as Solar water Distillation. Solar Distillation is an attractive process to produce portable water using free of cost solar energy. This energy is used directly for evaporating water inside a device usually termed a Solar Still. Solar stills are used in cases where rain, piped, or well water is impractical, such as in remote homes or during power outages. The use of solar thermal energy in seawater desalination applications has so far been restricted to small-scale systems in rural areas with economic significance.

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : KMC-ML BASED HPCSP ISLANDING DETECTION ALGORITHM TO ESTIMATE THE DG INTEGRATED NETWORK STATE

(51) International classification :H02J0003380000, H02J0013000000, G01R0031000000, H02J0003480000, H01M0008040140

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Development in renewable energy system, made the global utilization of power by the end user. Hence demand from end users are rapidly increased in power sector. To meet this demand renewable energy system are interconnected/integrated to main power grid. Small scale power generating stations at load centres are installing with DG and they are integrated to power and hence operating to fulfil the demand. Even integrated power system has advantages, some times it needs security constraints, especially during disturbance operating conditions. Disturbance at power side, may open the circuit breaker at grid and DG will be isolated from main grid and this is said to be islanding operation of integrated power system. Islanding operation of integrated power system has a security and safety issues and those listed as i) harm utility workers ii) damage the converter devices. Islanding condition of integrated power system has to be detected to resolve these issues. Different methods/techniques are available in literature for islanding detection. Many methods are proposed by researchers such as passive methods, active methods and communication based methods. Active methods are suffering from power quality issues and whereas communication based methods are not guaranteed for islanding detection. Passive methods are not at all these drawbacks expect non-detection zone. If the voltage is taken with all range of data classification, passive methods are provided a guaranteed islanding detection. Identification of islanding state is mainly dependent on voltage variation and corresponding data sets are trained using machine learning (ML) and its mathematical model is described in claim-1. Clustering of data sets i.e. x_{ij} as per PCC V/J data will provide a better ML training for and corresponding outcome will be obtained by machine learning (ML) algorithm. This outcome is a control vector for HPCSP method with RCV and RCF. Islanding detection algorithm will be validated in all cases of k_{tn} — ML based HPCSP method as per RCV and RCF. Low mismatch cases also validated including the zero mismatch conditions. The kmc — ML based HPCSP islanding detection has detected the island confirmation to trip DG side CB. Of course no unwanted trip signal is generated during the NIEs of test procedure.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : METHOD AND SYSTEM FOR IMPLEMENTING SMART AUTOMOTIVE ELECTRONICS FOR SENSING DATA FROM VEHICLES

<p>(51) International classification :G06F0009440100, H04L0029080000, H04L0012400000, H04W0008240000, H04N0021442000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R.V.R. & J.C. COLLEGE OF ENGINEERING Address of Applicant :R.V.R. & J.C. COLLEGE OF ENGINEERING, GUNTUR-522019, ANDHRA PRADESH, INDIA ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. GHANTA SUDHAVANI (PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: gsudhavani@rvjc.ac.in ----- 2)DR. J. RAVINDRANADH (PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: jravindranadh@rvjc.ac.in ----- 3)DR. SURESH KUMAR PITTALA (ASSOCIATE PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: psureshkumar@rvjc.ac.in ----- 4)DR X. ASCAR DAVIX (ASSOCIATE PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH ----- 5)P. SAILAJA (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: ascardavix@rvjc.ac.in ----- 6)P. SIVA PRASAD (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: psivaprasad@rvjc.ac.in ----- 7)MURALI KRISHNA ATMAKURI (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: amuralikrishna@rvjc.ac.in ----- 8)T. SUNEETHA (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: tsuneetha@rvjc.ac.in ----- 9)N. SUDHEER KUMAR (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: nsudheerkumar@rvjc.ac.in ----- 10)MAKKAPATI HIMAJA (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, R.V.R & J.C. COLLEGE OF ENGINEERING (AUTONOMOUS) CHANDHRAMOULIPURAM, CHOWDAVARAM, GUNTUR – 522019, ANDHRA PRADESH Email: makkapatihimaja@rvjc.ac.in -----</p>
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(57) Abstract :
ABSTRACT METHOD AND SYSTEM FOR IMPLEMENTING SMART AUTOMOTIVE ELECTRONICS FOR SENSING DATA FROM VEHICLES The present invention provides an approach for implementing smart automotive electronics for sensing data from vehicles. The method comprises implementing open systems and their interfaces for the Electronics in motor vehicles based Controller Area Network stack in each of a plurality of booting phases of the ECU, and creating a data structure that stores information pertaining to each of runtime information, state information, message buffers, and a diagnostic session state of the automobile, wherein the data structure is stored in the memory mapped region of the ECU. The method executes one or more instructions of the OSEK based CAN stack for booting the automotive electronics in the ECU and sensing the data in real time from the vehicles based on the information stored in the data structure.

(54) Title of the invention : MULTI-FACETED VEHICLE WITH CLIP-ON FRONT WHEEL ASSEMBLY

(51) International classification :B62K0003000000, B62M0001360000, B62M0017000000, B62K0013000000, B62K0017000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

1 A multi-way riding system that has two or more ways of riding namely riding or pedalling as a recumbent vehicle, riding or hand pedalling mode, and thirdly as a normal leg pedalling vehicle in a commonly seated posture as a normal commuter where in vehicle is designed as a front wheel drive system which consists of a chainless shaft driven mechanism comprising primary shaft connected to the system where hub is placed in the central axis of the front wheel and also the fork bears the moving system that swirls around the axis to choose the mode of ride according to the user. 2.The system said in claim 1 ,where in the first mode being a recumbent pattern of operating the vehicle .where in the user operated the system via foot (1 A)to ride the same and the second mode said in claim 1 , where in the rider opts to ride using his hands (IB) the third mode .where in the user commutes the vehicles as a normal pedalling bicycle.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : METHOD AND SYSTEM FOR HEAT TRANSFER ENHANCEMENT IN SOLAR PARTICLE RECEIVERS

<p>(51) International classification :F24S0020200000, F24S0023700000, F24S0070100000, F03G0006060000, F24S0070600000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)ECOLE CENTRALE SCHOOL OF ENGINEERING, MAHINDRA UNIVERSITY Address of Applicant :Ecole Centrale School of Engineering, Mahindra University, Survey No 62/1A, Bahadurpally, Hyderabad-500043, Telangana, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prasad Pokkunuri Address of Applicant :Ecole Centrale School of Engineering, Mahindra University, Survey No 62/1A, Bahadurpally, Hyderabad-500043, Telangana, India -----</p> <p>2)Raghavesh Vishwanath Address of Applicant :Ecole Centrale School of Engineering, Mahindra University, Survey No 62/1A, Bahadurpally, Hyderabad-500043, Telangana, India -----</p> <p>3)Sebastian Uppapalli Address of Applicant :Ecole Centrale School of Engineering, Mahindra University, Survey No 62/1A, Bahadurpally, Hyderabad-500043, Telangana, India -----</p> <p>4)Utkarsh Singh Address of Applicant :Ecole Centrale School of Engineering, Mahindra University, Survey No 62/1A, Bahadurpally, Hyderabad-500043, Telangana, India -----</p>
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(57) Abstract :
ABSTRACT OF THE INVENTION METHOD AND SYSTEM FOR HEAT TRANSFER ENHANCEMENT IN SOLAR PARTICLE RECEIVERS The present invention relates to central receivers used in concentrated solar power/concentrated solar thermal (CSP/CST) tower plants. Using the preferred embodiment of a falling particle cavity receiver, a system of radiative heat transfer enhancement is disclosed that involves the distal half of a cylindrical/tubular absorber being coated with a spectrally-selective, highly-reflective material. Together with a combination of flow-modification devices operated by an intelligent control-system, particulate-laden flow of heat transfer fluid and radiation absorption by the particulate medium are optimised, resulting in maximum receiver efficiency. Figure of Abstract: Fig. 1

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059246 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DESIGN AND FABRICATION OF DUAL PEDAL HACKSAW CUTTER MACHINE

(51) International classification :C08L0027060000, A63B0022000000, B23D0049120000, H05K0007140000, B23D0051120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In this Pedal operated hacksaw machine which can be used for industrial applications and Household needs in which no specific input energy or power is needed. This project consists of a crank and slider mechanism. In the mechanism pedal is directly connected to the hacksaw through crank and slider mechanism for the processing of cutting the wooden blocks, metal bars, pvc materials. The objective of the modal is using the conventional mechanical process which plays a vital role. The main aim is to reduce the human effort for machining various materials such as wooden blocks, steel, PVC etc.

No. of Pages : 11 No. of Claims : 1

(54) Title of the invention : MECHANICAL GRIPPER FOR HUMAN RESCUE

<p>(51) International classification :G06Q0010060000, C12Q0001688300, F02D0013020000, B01J0023220000, B32B0037000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY Address of Applicant :THE PRINCIPAL, KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA-621112. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. K. RAJAGURU Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- -- 2)Mr. A. GODWIN ANTONY Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- -- 3)A. GNANA YOGESH Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112 -----</p>
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(57) Abstract :
Mechanical gripper for human rescue The main objective of this invention is to find out the possible, solution for rescuing borewell accidental victims. Prior art study has revealed a lot of uncomfortable facts including the pathetic situation of the rural children, the total Carelessness of the borewell contractors & fanners, the possible Main causes of such deadly accidents, etc. The cost involved in using advanced robots and sensors involve too many complexion and offered risks. The proposed invention eliminated the complexity involved in initial set up of rescuing machines/robots and reduced the cost involved to a very high value.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059250 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A VEGETABLE GUTTER BY CRANK AND SLOTTED LEVER QUICK RETURN MECHANISM

(51) International classification :F15B0011024000, F02P0005150000, F16D0065540000, A63B0063000000, F02D0029040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059253 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ARDUINO BASED SOLAR TRACKING SYSTEM

(51) International classification :H02S0020320000, F24S0050200000, F24S0030425000, G05D0003120000, F03G0006040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Solar Tracking System is a power generating method from sunlight. This method of power generation is simple and is taken from natural resource. This needs only maximum sunlight to generate power. This paper helps for power generation by setting the equipment to get maximum sunlight automatically. This system is tracking-for maximum intensity of light. When there is decrease in intensity of light, this system automatically changes its direction to get maximum intensity of light.

No. of Pages : 14 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059334 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : GROUNDNUT POD STRIPPER MACHINE

<p>(51) International classification :A61K0036480000, A22C0017040000, B65D0085804000, G06Q0040060000, H01L0021683000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Address of Applicant :THE PRINCIPAL, KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA-621112. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) K. SARAVANAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, TRICHY, INDIA-621 112. -----</p> <p>2)M. SIVA Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. -----</p> <p>3)S. D. SRIRAM Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. -----</p> <p>4)D. SUDHARSAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. -----</p> <p>5)P.VIJAY Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. -----</p>
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(57) Abstract :

This project focuses on the design and fabrication of a groundnut pod stripper machine that is electrically operated by a 1/3 HP motor. Farmers with a wide harvesting area can afford and use this machine. This separating machine is light weight, takes less time, and is inexpensive. It helps the farmers to work easily and can reduce time and investment. It is more efficient and can be available at low cost. So we develop a new groundnut pods separating machine which separates the groundnut pod from the groundnut effectively and easily and in more quantity. By using this machine time required for separating the pods from groundnut is comparatively very less and it is profitable for farmer.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : ELECTRIC-PADDY WHEEL GROWER AND WEEDER

<p>(51) International classification :A01B0039180000, H04L0027260000, A01B0001160000, A61Q0007000000, A01M0021040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY Address of Applicant :THE PRINCIPAL, KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA-621112. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Mr. S. DINESH Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, TRICHY, INDIA-621 112. ----- 2)T. DEENA DAYALAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- 3)M. KARTHICK Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- 4)T. LAKSHAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. -----</p>
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(57) Abstract :

In this present work, the electric paddy wheel grower and weeder is upgraded with electric motor, which works on battery power and also it has three rollers, which is useful in attaining more efficiency. The main work is to reduce the man power in weeding and reduce the high usage of chemical fertilizers in paddy field. The part .roller contains blade like element which will cut and remove the weeds.and also it cut the roots of paddy crop. The roots will regrowth into two or more sub root that is more fibrous. When the root starts regrowth, the new leaves will growth. Then there is no need for chemical fertilizers for growth purpose.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059347 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ANTI THEFT CONTROL OF ATM

(51) International classification :H04L0012700000, G07F0019000000, H04L0012540000, E05B0073000000, G06Q0020100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)

Address of Applicant : -----

(57) Abstract :

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059354 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : COCONUT DEHUSKING MACHINE

<p>(51) International classification :G06Q0010060000, G06Q0010000000, G06F0011300000, G06Q0030080000, G06Q0010080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY Address of Applicant :THE PRINCIPAL, KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA-621112. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. RANJITH KUMAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- -- 2)M. RAGUL Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- 3)S. SARAVANAKUMAR Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- 4)K. SUDHARSAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. ----- 5)M. VASANTH Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAYAPURAM, TRICHY, INDIA-621 112. -----</p>
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(57) Abstract :

This machine is going through the design development process from data comparison to product fabrication. The detailed design development process ensures that the final result of the machine is achieving the objective to reduce and eliminate repetitive task perform by human resources. The machine control by the new concept of the controller with an open-source controller that makes the 'machine more' flexible and easier to handle. The machine is tested the machining tolerance to ensure the machine provides high accuracy result. Although, the machine 'Still limited to perform the heavy-duty process, this machine can help small and medium enterprise industry increasing productivity by eliminating and reducing human error.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059372 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PORTABLE CNC MACHINE USING ARDUINO

(51) International classification :G06Q0010060000, G06Q0010000000, G06F0011300000, G06Q0030080000, G06Q0010080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This machine is going through the design development process from data comparison to product fabrication. The detailed design development process ensures that the final result of the machine is achieving the objective to reduce and eliminate repetitive task perform by human resources. The machine control by the new concept of the controller with an open-source controller that makes the 'machine more' flexible and easier to handle. The machine is tested the machining tolerance to ensure the machine provides high accuracy result. Although, the machine 'Still limited to perform the heavy-duty process, this machine can help small and medium enterprise industry increasing productivity by eliminating and reducing human error.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059377 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SEMI AUTOMATIC STICKER PEELER

(51) International classification :G06K0009320000, A23L0027100000, A47J0017020000, C08B0037000000, H04W0076270000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : FLUID FLOW CONTROL VALVE

(57) Abstract :

The present invention discloses a fluid flow control valve with an actuation unit. Said actuation unit (11) consists of an inelastic membrane tube and a spring for operating the valve. Said actuation unit (11) also consists of a tube (12), an outer cover (13), a fluid chamber (14), an actuation button (15), a conduit (16) and a spring (17). The outer cover (13) is connected to a valve member (4) and said cover (13) is mounted on to the tube (12). The conduit (17) is connected to the tube (12) and fluid chamber (14). The valve (1) helps to control the flow of fluid in either direction.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059611 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : APPARATUS FOR THE SUSTAINED-RELEASE OF ACTIVE INGREDIENTS IN AQUACULTURE

(51) International classification :A61K0009160000, A61K0009000000, H01L0021027000, A61K0009200000, B29L0031000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An aspect of the present disclosure pertains to a method of making an apparatus for sustained-release of active ingredients in an Aquaculture. Particularly the present disclosure pertains to a method of making a buoyant apparatus for sustained-release of active ingredients in an Aquaculture. The said apparatus comprises: (a) a container having a body part (D1), neck part (02) and head part (03); (b) a composition comprising among the excipients is the active ingredient; and (c) a polymer gel layer with hole of defined dimension. The composition is added to the body part of the container and sealed in the neck part with a polymeric gel having one or multiple hole of defined dimensions. The said hole facilitates sustained release of the active ingredient in the water-based environment. Another aspect of the present disclosure provides the composition with at least one excipient from a group comprising, cryoprotectant, protease inhibitor and hydrophobic ingredient. Another aspect of the present disclosure pertains to a method of making a composition comprised by the said apparatus, for sustained-release of active ingredients in an Aquaculture. Another aspect of the present disclosure pertains to a container comprised by the said apparatus, for sustained-release of active ingredients in an Aquaculture.

No. of Pages : 28 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059641 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FRAME STRUCTURE FOR A SADDLE-RIDE TYPE VEHICLE

(51) International classification :B62K0011040000, B62J0001000000, B62K0005010000, B62K0011020000, B62K0019180000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT FRAME STRUCTURE FOR A SADDLE-RIDE TYPE VEHICLE The invention relates to a strengthened frame structure of a saddle-ride type vehicle. The frame structure comprises of a main frame, a cradle frame, a power transmission unit, and a posterior frame. The main frame, the cradle frame, the motor case, and the posterior frame together form a primary structural member of the vehicle. Figure 1

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059958 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SPACE GRADE SYNTACTIC FOAM COMPOSITION AND A 10 PROCESS FOR PREPARATION

(51) International classification :C08J0009000000, C08J0009320000, C04B0111000000, C08K0003360000, C08L0083040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Disclosed herein is a room temperature curable, mouldable syntactic foam composition for using as a topcoat material, adhesive or thermal protection system in 5 space launch vehicles or general-purpose applications. The composition comprises a silicone resin, an inorganic filler, a curing agent and a processing aid. The composition is having a density between 0.30 and 0.40 g/cc, outgassing properties in terms of Total Mass Loss (TML)<1% and Collected Volatile Condensable Material (CVCMM) <0.1%, solar absorptance between 0.10 and 0.20, emissivity between 0.75 and 0.80, pot life 10 between 20 and 30 minutes, cure time of 24 hours, operating temperature in the range of -80°C to 350°C. The invention also discloses a process for preparing the said composition.

No. of Pages : 20 No. of Claims : 26

(54) Title of the invention : PLANT DISEASE IDENTIFICATION AND ALARMING SYSTEM USING IMAGE PROCESSING

(51) International classification :G06K0009620000, G06T0007000000, B64C0039020000, G06Q0050020000, G06K0009000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The combination of UAVS and image processing device has opened a new era to monitor the health of plants. Classification of plant diseases in early stages using image processing not only helps farmers to get healthy plants but also maximize the production. By using the drones (UAV'S) in the agricultural fields, vast hectares of land can be monitored easily. UAVS will capture the image of the crop and send to the database where captured images are processed. The processing of image involved some steps such as pre-processing, segmentation, feature extraction, multi-class support vector machine (SVM). After completion of these steps diseases of the plant can be known and based up on the diseases exact pesticides can be suggested to the farmers. Thus, classifying diseases and remedy for those diseases will help farmers to monitor plant growth efficiently for better production

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : SMART REFRIGATOR DOOR OPENING SYSTEM USING IOT

<p>(51) International classification :G09B0019000000, F25D0023020000, G08B0021020000, F25D0023100000, G09B0005040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. S. MUNAWWAR Address of Applicant :DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 2)Ms. GUDETI CHANDRIKA 3)Ms. BATHINI SRUTHI KEERTHANA 4)Ms. TANGUTURI VANITHA 5)Ms. BYNAPALLE MAMATHA 6)Dr. M. V. SUBRAMANYAM 7)Dr. Y. MALLIKAJUNA RAO Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. S. MUNAWWAR Address of Applicant :DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 2)Ms. GUDETI CHANDRIKA Address of Applicant :DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 3)Ms. BATHINI SRUTHI KEERTHANA Address of Applicant :DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 4)Ms. TANGUTURI VANITHA Address of Applicant :DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 5)Ms. BYNAPALLE MAMATHA Address of Applicant :DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 6)Dr. M. V. SUBRAMANYAM Address of Applicant :PROFESSOR, DEPARTMENT OF ECE, SANTHIRAM ENGINEERING COLLEGE, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 ----- 7)Dr. Y. MALLIKAJUNA RAO Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ECE, RGM COLLEGE OF ENGINEERING & TECHNOLOGY, NERAWADA POST, PANYAM MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH-518211 -----</p>
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(57) Abstract :

Title: SMART REFRIGERATOR DOOR OPENING SYSTEM USING IOT Field of Invention: Internet of Things, Embedded systems Background Art including citations of prior art: To the best of applicant(s) knowledge, there are no systems which can act intelligently to control the access for the refrigerator door. Objective of invention (the invention's objectives and advantages, or alternative embodiments of the invention)! (1)To open the refrigerator door intelligently using Embedded system and Internet of Things technology. (2) To develop an Integrated system that alert about the opening the refrigerator door. (3) To keep the children out of access for some food/ drug items by using Embedded system and Internet of Things technology. (4) To alert the parent(s) about the refrigerator door opening using Embedded system and Internet of Things technology. (5) To utilize the Technology & innovation effectively for the safety of children.

Summary of Invention The product presented here is a combination of both educational and security in its nature. First of all, when a prefixed number of counts has been given to be tapped by the kid. It will be an effective method to teach little kids to count. For a little older kid, it can be a holistic neuromotor skill to tap the ultrasonic sensor with periodic time gaps. The data analytics that can be performed on this are at multiple levels. The quantity of food consumed by kids, the frequency of consumption, the kind of foods consumed can all be tracked. The health analytics of the kids, the likes and dislikes of the kids and a major portion of their overall profiling can be obtained from products such as this. A nation's asset lies in the kind of future that is being built for its children. A universal smart wearable device like a wristband with a transmitter paired with a receiver that is placed on the refrigerator that can accurately identify the number of times the hand is placed along with the accurate time in between the placings. Sensors can be introduced to kids as a safety wear wherein they alert the parents or guardians with specific gestures via IoT devices. Detailed description of the invention: Smart appliances with multimedia capability have been emerging into daily lives. In this modern era, almost everyone is directly or indirectly using the Internet of things (IoT). The Internet of Things (IoT) is a new and promising technology, which has the potential to globally change human life in a positive way. Kitchen is one of the places where such intelligent appliances are mostly used. Normally kids like to eat junk foods, but parents want to control children from eating junk at the wrong time. Nowadays, the refrigerator is the most frequently used kitchen electrical appliance all over the world for food storage. Here, parents should keep some restrictions for kids, so that they will not eat junk during wrong timings of the day like late nights. A mechanism has to be performed here where IoT is used. Here a fridge is locked by a simple motor, which is controlled by an IoT embedded module. This smart refrigerator contains a sensor which senses how many times a kid tries to open the fridge with a password. If the kid places its hand the correct number of times, a message is sent to the parent's mobile as a request. Without parent's, permission the fridge door will not be opened. Through this mechanism parent's can avoid kids eating junk food at wrong timings. As shown in the Figure 1, The fridge is locked by a simple servo or DC motor based locking system. The motor is connected to the battery and the microcontroller unit. The child places its hand over the ultrasonic sensor connected to the microcontroller in the specified pattern. Based on the matching of the pattern, the microcontroller gives the instruction signal for the fridge lock to open. As shown in the Figure 1, the circuit of the system consists of an ultrasonic sensor, a Node MCU and a servo motor. The above circuit as mentioned is the ideation level prototype of a gesture count based fridge opening system for kids. When the kid places their hands similar to the predefined number of taps over the ultrasonic sensor, the input goes into the Node MCU and the servo motor is controlled. The servo motor is the actuating motor of the fridge lock. The IoT enabled Node MCU sends a message whenever the fridge is accessed with the correct gesture taps. Most of these message generating services for IoT are open source platform services. When being implemented for industrial grade commercial products, then a paid service of the open source platform can be utilized for better options that include data analytics. As shown in Figure 1,(1) Microcontroller & Computing Device (2) A Motor

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : DEVELOPMENT OF MUSA ORGANIC PSEUDOSTEM PLATES

(51) International classification :D21B0001340000, B29B0017020000, B29B0017000000, D21J0003000000, E04C0002160000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA
 Filing Date :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 Use and throw plastic paper plates are used by worldwide for its simplicity and cost effective. Most of the plates are produced every time using fresh trees and remaining covered by recycling process this will also shorten the tree resources indirectly effect human life cycle. The plastic molecules was consumed by the user will lead to sickness by themselves. Proper Disposal of plastic plates is really uncomfortable in major locations. Our invention mainly focus on pseudo stems recycling to produce desired shapes of plates used in varies application mainly replace the harmful plastic papers. Our invention involves varies machining process from pulper making to hot press moulding.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : AUTOMATIC FOOD PLATE DISPATCHING MACHINE USING IOT

<p>(51) International classification :H04W0084120000, B26D0007060000, A47L0015240000, H04L0029080000, F25D0023120000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)PRABHU MYLSAMY Address of Applicant :11F,Savithri Nagar Chetty Street Coimbatore-641001. --</p> <p>-----</p> <p>2)Mrs.P.KALAAMANI 3)Dr. V. RAGHAVENDRAN 4)Dr. P.PRABAKARAN 5)Dr. R. SHALINI 6)Dr.A.MUNIAPPAN 7)Dr.P.SHANMUGHASUNDARAM 8)Dr. P.KALYANASUNDARAM 9)Dr. C.RAJARAVI 10)Mr. M.SURESH Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PRABHU MYLSAMY Address of Applicant :11F,Savithri Nagar Chetty Street Coimbatore-641001. -----</p> <p>-----</p> <p>2)Mrs.P.KALAAMANI Address of Applicant :Assistant Professor Department of Computer Science & Engg Karpagam College of Engineering Coimbatore. -----</p> <p>3)Dr. V. RAGHAVENDRAN Address of Applicant :Assistant Professor Department of Information Technology Vels Institute of Science Technology and Advanced Studies Chennai. -----</p> <p>-----</p> <p>4)Dr. P.PRABAKARAN Address of Applicant :Assistant Professor Vels Institute of Science Technology and Advanced Studies Chennai. -----</p> <p>5)Dr. R. SHALINI Address of Applicant :Assistant Professor Vels Institute of Science Technology and Advanced Studies Chennai. -----</p> <p>6)Dr.A.MUNIAPPAN Address of Applicant :Professor Department of Automobile Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai. -----</p> <p>7)Dr.P.SHANMUGHASUNDARAM Address of Applicant :Professor Department of Automobile Engineering Karpagam Academy of Higher Education Coimbatore. -----</p> <p>8)Dr. P.KALYANASUNDARAM Address of Applicant :Professor Department of Electronics & Communication Engg Saveetha School of Engineering, Saveetha Institute of Medical And Technical Sciences (SIMATS) Chennai. -----</p> <p>9)Dr. C.RAJARAVI Address of Applicant :Associate Professor Department of Mechanical Engineering Park college of Engineering and Technology Coimbatore. -----</p> <p>10)Mr. M.SURESH Address of Applicant :2/48, Gandhi street, Veeranathur & Post (Via) R.K.pet, Pallipat (Taluk), Tiruvallur (District) -----</p>
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(57) Abstract :

No. of Pages : 0 No. of Claims : 0

(51) International classification :H04L0029080000, A47J0027000000, H01Q0003260000, H04W0012080000, H04W0008220000
 (86) International Application No :PCT//
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(57) Abstract :

An IOT based smart cooker that is pre-programmed for various recipes aims at designing and implementing smart electric cooker that can be used for cooking various recipes that are pre-programmed. The invention focuses on designing an electric cooker whose operations are similar to the gas top cookers. For example, the whistle in regular cooker is analogous to messages on registered mobile number of users. That is a person will receive a message sharing the counts of whistle and user can switch off the cooker from his/her mobile phone.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : RAT-O-LATE-BETTER WAY THAN PIED PIPER TO ERADICATE RATS

(51) International classification :C04B0111200000, A23L0023000000, C07D0333220000, A61K0031235000, A01N0037360000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This project started with a aim of helping poor farmers and slums areas who can afford this products at low cost and faces rodents problems the most, so far the ingredients used in the mixture are easily available and once when used at industrial level may cut the cost as it highly lacks the use of machinery and electricity. Thus, this agenda is easily achievable when accepted. The compositions that are used and tested are more effective than the previous one during our experiments we successfully managed to increase the concentration of the concoction to have immediate effects which still resulted in no harm or effects on the environment. Adding metal compounds which serves as a main eradicating component was the main ingredient alongside chocolate. Since metal compounds are easily available and commonly used. The elements present in the concoction are human safe. Rats have exceptional senses when it comes to smelling, chocolate being the side/main ingredient helps the rat to consume the concoction. The committee went through dense conversation to decide the concoction and has been through many experiments to have a successful result that repelled the rodents. In order to overcome the hazardous nature of chemical rodenticides, lengthy baiting programme and possibility of resistance, our brand new series of RAT-O-LATE have been developed and known as single or double dose anticoagulant. These rodenticides combine better qualities of acute and chronic rodenticides. Farmers and slums areas and poor people are the ones find it hard to purchase this rodents eradication products and are the people who requires it the most. The concoction started with the agenda to make it cost efficient, easily available in the market and more easy to use and furthermore use it on big places like fields, campus grounds or as small places like office and home. The concoction went through the clinical trial and showed positive results and even better results with the new and revised concoction. Throughout the trail we kept record of the changes from the previous observations with the old concoction, and the new one provided with better results. We kept testing and came up with new mixtures, ingredients and natural repellents that can be used and kept upgrading our concoction. Due to its easily availability of its ingredients and its uniqueness in the market shows that this concoction has been thoroughly studied for its positive results. This product can be made available at the market at a cheap rate and the direction to use this product is easy and less time taking.

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : A SAFETY SYSTEM

(51) International classification :F21S0009030000, F21W0131103000, F21Y0115100000, H04L0029080000, F21V0023040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Solar street lights are raised light sources which are powered by solar panels generally mounted on the lighting structure or integrated into the pole itself. The solar panels charge a rechargeable battery, which powers a fluorescent or LED lamp during the night. It provides a solar street lamp system base on IOT (Internet of Things), mainly comprising a solar photovoltaic panel, a DC/DC converter, an accumulator, a street lamp set, a controller, a GPRS module, a management center, a GPRS network and a sensor module.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060475 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CNN BASED SECURED AND HYGIENIC FINGER PRINT BIOMETRIC SYSTEM

(51) International classification :G06K0009000000, G06K0009620000, G07C0009370000, G06N0003040000, G06K0009480000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

As we all know that according to the current situation of covid 19 we couldn't use ordinary finger print recognition system for biometrics in all organizations which require authentication. Because it may lead to several health issues related to touching the biometric system. To eradicate this, we proposed a touchless fingerprint recognition system which consists of camera which takes the video of our finger when we move our finger above one inch of the biometric system very fastly. Instead of taking still photo, here we are using a video for a very short duration of time. Then this video is captured by the Camera and processed using convolutional neural network. Since it is very clear that, video is the sequence of images, it is converted into 2D or 3D image model. This image is then compared with the fingerprint database already available to authenticate the person.

No. of Pages : 7 No. of Claims : 2

(54) Title of the invention : CHILDREN DROWN PROTECTION IN OPEN WATER BANKS

<p>(51) International classification :G01V0008140000, G08C0023040000, G01D0005260000, F21V0008000000, H04L0012580000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF ENGINEERING Address of Applicant :THE PRINCIPAL, NH-45, SAMAYAPURAM, Trichy, Tamil Nadu, India 621 112. ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. N. R. NAGARAIAN Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>2)Mr. T. MURUGANANTHAM Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>3)S. Sudhersun Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>4)S R Susmitha Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>5)R Venkatesh Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>6)D Santhosh Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>7)T.Janani Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>8)P.Hemapriya Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>9)R.Jayasurya Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>10)S.Arun Prakash Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p>
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(57) Abstract :

The present invention provides a child protection device in open water banks. This idea consists of a transmitting unit and the receiving unit. The transmitting unit consists of retro-reflective photoelectric sensor. The Retro reflective sensor contains both the light source and receiving device in one house. A unique dual lens system or bifurcated fibre optic light guide establishes the transmitted light beam path and the returned light beam path on the same axis. This will help in monitoring the illegal entry of children into the water bodies and prevent them getting caught by the water curls in the water bodies.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060480 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DAMPED BLANKET SQUEEZER MACHINE

(51) International classification :A47G0009060000, B32B0003120000, A47J0019020000, D21F0003020000, F26B0009040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The titled invention damped blanket squeezing machine discloses the design of a machine which squeezes the damped blanket automatically and the moisture is separated and dried quickly. The dyeing units uses coloring dyes dipped in the blanket and the damped blanket is loaded in the machine which squeezes the blanket for excess water to be removed and spread to dry quickly. The hotels and large places which has the laundry to wash the blanket can use this machine to squeeze out excess water and can be fast dried.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060482 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PORTABLE FIRE FIGHTING EQUIPMENT TROLLEY

(51) International classification :A62C0005020000, A62C0003020000, A62C0031020000, A62C0031000000, A63H0033320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

The titled invention Portable fire fighting equipment trolley discloses the design of fire fighting equipment arranged inside a moving trolley which can be easily pulled out to reach the fire spot and shuts down the fire by throwing sand or water or the fire fighting foam on the engulfed area. The sand or water is held in separate buckets and after reaching the fire spot the buckets are unhooked from the trolley and the sand or water is poured on the fire spot and the fire is shut down. The trolley is designed to hold the fire fighting buckets which holds the sand or water and plurality of mini fire extinguishers are provided inside the trolley to attack the fire spot immediately in case of emergency.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060514 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AUTOMATIC SPEED CONTROLLER FOR TWO WHEELERS

(51) International classification :G08G0001160000, G08G0001000000, H04L0029080000, G08G0001090000, H04W0004900000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Accidents are due to over speed is a common issue in our country. Due to that . many people lose their life and livelihood. Our Project Automatic Speed Controller helps to reduce bike crashes due to over speeding. Our device senses vehicles around the host vehicle which has been fitted with this and alerts host about the vehicle position at certain distance. If it senses vehicle at a very closer distance it will decrease the speed by directly contacting the fuel injector of a bike If there is any case of accident it will send message to his/her emergency contacts, nearby police station and to an ambulance service. This device will be more effective when a host is drunken and not in conscious.

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : FISH CUTTING MACHINE

<p>(51) International classification :A22C0025160000, B26D0007060000, B26D0005000000, A22C0021000000, B26D0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF ENGINEERING Address of Applicant :THE PRINCIPAL, NH-45, SAMAYAPURAM, Trichy, Tamil Nadu, India 621 112. ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. T. Muruganatham Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>2)Mr. N. R. Nagarajan Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>3)N Kaushik Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>4)P Ramkumar Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>5)T.Janani Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>6)P.Hemapriya Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>7)R.Jayasurya Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>8)S.Arun Prakash Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>9)P. Bhrinta Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>10)M. Anees Valentina Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p>
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(57) Abstract :

The fish cutting machine was designed, fabricated and evaluated for performance. The major components of the machine were made up of three main parts: mainframe (case), conveyor/rotator and cutter component. Two mutually adjacent band saws arranged along said feed-line, and which function to cut on respective sides of the backbone of a fish for filleting the abdomen-bone part of the fish and thus for separating the fish into two fish fillets and a carcass, spine cutting . means arranged along said feed-line and before the band saws in a feeding direction of the feed-line.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : KNIFE SHARPENING MACHINE

<p>(51) International classification :B24B0003540000, B24B0003360000, B24B0041040000, B24B0047120000, B24B0003600000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF ENGINEERING Address of Applicant :THE PRINCIPAL, NH-45, SAMAYAPURAM, Trichy, Tamil Nadu, India 621 112. ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. N. R. Nagarain Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>2)Mr. T. Muruganatham Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>3)S. Sudhersun Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>4)S R Susmitha Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>5)R Venkatesh Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>6)D Santhosh Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>7)U Kishore Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>8)P Nandhakumar Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>9)S Santhosh Kumar Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>10)A Stanlymathewrai Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p>
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(57) Abstract :

An electric knife sharpener characterized by an electric motor having a stator winding producing a magnetic axial bias on the armature and on a grinding wheel axially displaceable bodily with the armature and by a pair of slots adapted to engage a knife against them and angularly intersecting the grinding wheel whereby a properly inserted blade axially displaces the grinding wheel and the motor armature to achieve a substantially constant magnetic axial bias of the grinding wheel against the blade of a knife upon magnetic action of the motor winding on the motor armature.

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : AN ACCIDENT PREVENTION SYSTEM

<p>(51) International classification :G06Q0050300000, H04H0020610000, G07C0009380000, C12N0009220000, G02B0027010000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF ENGINEERING Address of Applicant :THE PRINCIPAL, NH-45, SAMAYAPURAM, Trichy, Tamil Nadu, India 621 112. ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. T. Muruganatham Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>2)Mr. N. R. Nagaraiian Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>3)S. Sudhersun Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>4)S R Susmitha Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>5)R Venkatesh Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>6)D Santhosh Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>7)U Kishore Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>8)P Nandhakumar Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>9)N Kaushik Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p> <p>10)P Ramkumar Address of Applicant :Student, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p>
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(57) Abstract :
 This system would not make the elephants come even near the train tracks-during the crossing of train in train tracks. This system can also be used in some village where elephants enter into the village illegally in search of food and any other things that cause death of humans and loss of things for human community. This system threshold can adjust using an onboard potentiometer; when this no vibration, this module's output logic LOW the signal indicates LED light, and vice versa.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060519 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN ELECTRONIC LOCK FOR THROTTLE WITH CRUISE CONTROL FOR TWO WHEELERS

<p>(51) International classification :B60K0031000000, G06K0019040000, B60W0030140000, G06Q0010080000, B60K0031040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF ENGINEERING Address of Applicant :THE PRINCIPAL, NH-45, SAMAYAPURAM, Trichy, Tamil Nadu, India 621 112. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. S. Syed Husain Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. ----- 2)Mr. N. R. Nagarajan Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. ----- 3)Mrs. A. Abinaya Address of Applicant :Assistant Professor, Department of ECE, K.Ramakrishnan College of Engineering, NH-45, Samayapuram, Trichy, Tamilnadu, India-621112. -----</p>
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(57) Abstract :

Nowadays two wheeler thefts is increasing day-by-day. Though some vehicles have some security features such as side lock. Bluetooth unlocking, etc... But those systems can be cracked easily by just by-passing the security system and connecting the ignition wires to start the vehicle. That is by controlling the acceleration of the vehicle with electronically operated accelerator and that controls the servo motor which is responsible for the acceleration. So, when the RFID tag is inserted in a slot placed near the key, then only the accelerator works. Until that the vehicle starts but will not be able to accelerate until the RFID tag is placed. This RFID can be replaced with any other security feature as preferred. Also it consists of cruise control mode which accelerates the vehicle at constant speed.

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : METAKAOLIN USING AS A PARTIAL REPLACEMENT OF CEMENT IN CONCRETE – AN EXPERIMENTAL RESEARCH

<p>(51) International classification :C04B0028040000, C04B0028000000, C04B0014100000, G01N0033380000, C04B0111720000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)B.ANJANA DEVI Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF CIVIL ENGINEERING VIGNAN’S FOUNDATION FOR SCIENCE RESEARCH AND TECHNOLOGY, GUNTUR -TENALI RD, VADLAMUDI, ANDHRA PRADESH 522213 -----</p> <p>2)Dr. D.SATISH CHANDRA Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)B.ANJANA DEVI Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF CIVIL ENGINEERING VIGNAN’S FOUNDATION FOR SCIENCE RESEARCH AND TECHNOLOGY, GUNTUR - TENALI RD, VADLAMUDI, ANDHRA PRADESH 522213 -----</p> <p>2)Dr. D.SATISH CHANDRA Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF CIVIL ENGINEERING VIGNAN’S FOUNDATION FOR SCIENCE RESEARCH AND TECHNOLOGY, GUNTUR -TENALI RD, VADLAMUDI, ANDHRA PRADESH 522213 -----</p>
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(57) Abstract :

Concrete with high performance and environmental friendly is the current demand and to achieve this many researchers have attempted to use fly ash and silica fumes to improve the concrete properties. In this work, a study has been attempted by using Cashew Nut Shell Liquid (CSNL) and metakaolin additives together on the compression properties and durability properties. Different proportions of the combinations using CSNL and metakaolin have been analysed. The results show that the addition of CSNL additives along with metakaolin improves the concrete properties. With the information available about the metakaolin and CSNL from the literature surveying and from the past researches done on this topic, the mix proportion was selected so as to have a balanced workability and strength. The mixing was done manually. Curing was performed to immerse in the water and testing was done to determine the mechanical strength. The response of metakaolin and CSNL concrete was determined for acid attack and carbonation effect against variable binder ratios.

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : ELECTRICAL ENERGY STORAGE USING LIGHT SOURCE

<p>(51) International classification :H01M0008180000, H02J0007350000, H02S0020210000, G08B0017000000, B60Q0001140000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.D.R.P.RAJARATHNAM Address of Applicant :PROFESSOR/HEAD, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, PACHAL -637018, NAMAKKAL, TAMILNADU -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.D.R.P.RAJARATHNAM Address of Applicant :PROFESSOR/HEAD, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, PACHAL -637018, NAMAKKAL, TAMILNADU -----</p> <p>2)Dr.R.T. AJAYKARTHIK Address of Applicant :ASSOCIATE PROFESSOR/MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>3)Mr.R.KARTHIK Address of Applicant :ASSISTANT PROFESSOR/MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>4)Ms.C.SUMITHRA Address of Applicant :ASSISTANT PROFESSOR/MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>5)Dr.P.PUGALENTI Address of Applicant :ASSISTANT PROFESSOR/MECHANICAL PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>6)N.HARIPRASATH Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>7)M.SATHISH Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>8)F.FAIJULHAK Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>9)R.TAMILKUMURAN Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>10)S.SANJAY Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>11)R.SRIRAM Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>12)M.GUNASEELAN Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>13)R.NITHISH KUMAR Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p> <p>14)V.THIRUVARUTSELVAN Address of Applicant :U.G STUDENT/ MECHATRONICS PAAVAI ENGINEERING COLLEGE NAMAKKAL -----</p>
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(57) Abstract :

Now a day's electricity is mostly consumed by everyone. The usage of electricity is increased year by year. By these days we can see road side lights in everywhere, but it's difficult to take this facility to everywhere. And a huge amount of electricity is consumed for the road lights. This can be over whelmed by Electrical energy storage using light source. By this method the electricity can be produced using the headlight of the vehicles. Here we are using 6V solar panel. The solar panel is kept in the way of the light, and it absorbs the heat of the light emitted from the headlights of the vehicles, and produces the electricity. Produced electricity is pass through the charger controller, it indicates the output and transmit electricity to the battery storage or to the Output source. By using this we can reduce the cost that spends to the transportation of the electricity. The maintenance cost is very low compared to the normal streetlights.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060551 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : NEWFANGLED MODERN INCINERATOR BIN

<p>(51) International classification :B65F0001160000, B65F0001140000, G09F0027000000, A61L0002100000, B65F0007000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)sathishkumar S Address of Applicant :72/148 Thiru Ve ka Nagar New Teachers Colony Erode</p> <p>-----</p> <p>2)SRITHA.P 3)SIVAPRIYA S 4)RAGSANA R V 5)VIDHARSHANA J 6)ARUTCHEZHIAN C 7)ARUN PRAKASH J 8)GNANAVEL S 9)ELAVARASAN G 10)RAJESH R</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)sathishkumar S Address of Applicant :72/148 Thiru Ve ka Nagar New Teachers Colony Erode ----</p> <p>-----</p> <p>2)SRITHA.P Address of Applicant :Assistant Professor Department of EEE, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>3)SIVAPRIYA S Address of Applicant :UG Student, Department of EEE, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>4)RAGSANA R V Address of Applicant :UG Student, Department of EEE, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>5)VIDHARSHANA J Address of Applicant :UG Student, Department of EEE, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>6)ARUTCHEZHIAN C Address of Applicant :UG Student, Department of CSE, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>7)ARUN PRAKASH J Address of Applicant :UG Student, Department of IT, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>8)GNANAVEL S Address of Applicant :UG student,Department of EEE,Banari Amman Institute of Technology, Sathyamangalam, Erode – 638401 -----</p> <p>9)ELAVARASAN G Address of Applicant :UG Student, Department of EEE, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu 638 401 -----</p> <p>10)RAJESH R Address of Applicant :UG Student, Department of EEE, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu 638 401 -----</p>
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(57) Abstract :

A modern incinerator bin consists of a trapezoidal metal container in which power supply is given by the solar attached to the metal container. The electrical energy from the solar is stored in the battery. It has an active motion sensor that detects the movement of the person's hand when he/she try to dispose the mask into the dustbin. The active motion sensor gives signal to the lid of the bin so that the lid open and close automatically. The data from the sensor is collected by the micro-controller that sends the information to the lid of the bin to open and close. The modern incinerator bin is capable of being installed in any location in a city as it is movable. The corona virus present in the mask is killed by passing the UV light. The masks in the bin are UV sterilized. UVC-LED sterilizes our ultraviolet rays in a safe and ecologically acceptable manner.

No. of Pages : 6 No. of Claims : 8

(54) Title of the invention : AN ELECTRONIC FOOD ORDERING DEVICE WITH IOT CONNECTIVITY AND METHOD THEREOF

<p>(51) International classification :G06Q0050120000, G06F0001160000, G06F0003048800, G06Q0030060000, H04L0029080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ANVEKAR, DINESH KASHINATH Address of Applicant :19, HALCYON DEFENCE ENCLAVE, BAGALUR CROSS, SATHNUR, BENGALURU-562149, KARNATAKA, INDIA ----- 2)RAJUK, VENUGOPAL KUPPANNA 3)KALIYAMOORTHY, EZHILARASAN 4)ANAVATTI, SHILPA NAGARAJA 5)BOLUGALLU, SHANTHI MANDEKOLU 6)KARNA, SUDHAKAR NARAYANA 7)RANGAHANUMAIAH, NAGESH 8)SHENOY, SOMNATH 9)SRINIVASAN, UMA 10)MOHAN, PUSHPA 11)KOTHAPELLI, PUNNAM CHANDER 12)BASWARAJU, SWARNALATHA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)ANVEKAR, DINESH KASHINATH Address of Applicant :19, HALCYON DEFENCE ENCLAVE, BAGALUR CROSS, SATHNUR, BENGALURU-562149, KARNATAKA, INDIA ----- 2)RAJUK, VENUGOPAL KUPPANNA Address of Applicant :VICE CHANCELLOR, BANGALORE UNIVERSITY 109, 4TH MAIN, 2ND CROSS, HAL III STAGE, BENGALURU-560075, KARNATAKA, INDIA ----- 3)KALIYAMOORTHY, EZHILARASAN Address of Applicant :CMR UNIVERSITY, 9, 3RD MAIN, VAISHNAVI LAYOUT, VIDYARANYAPURA, BANGALORE-560097, KARNATAKA, INDIA ----- 4)ANAVATTI, SHILPA NAGARAJA Address of Applicant :LECTURER SENIOR SCALE, GOVERNMENT POLYTECHNIC, CHANNASANDRA, FLAT. 103, NIRMAANIK AARBOR APARTMENT, NAGONDAHALLI, WHITEFIELD (POST), BENGALURU-560066, KARNATAKA, INDIA ----- 5)BOLUGALLU, SHANTHI MANDEKOLU Address of Applicant :#1181, 22ND 'B' MAIN, 11TH CROSS, SECTOR-1, HSR LAYOUT, BENGALURU-560102, KARNATAKA, INDIA ----- 6)KARNA, SUDHAKAR NARAYANA Address of Applicant :FLAT NO. 307, PRAGATHI COREL APARTMENT, KGF MUNIREDDY LAYOUT, MAHADEVAPURA, BENGALURU-560048, KARNATAKA, INDIA ----- 7)RANGAHANUMAIAH, NAGESH Address of Applicant :152, 60 FEET ROAD, INDUSTRIAL WORKER'S LAYOUT, SHANKARNAGAR, BENGALURU-560096, KARNATAKA, INDIA ----- 8)SHENOY, SOMNATH Address of Applicant :58/5897, ASHIRWAD, SHENOY NIVAS, SREENIVASA MALLAYA ROAD, ERNAKULAM-682 035, KERALA ----- 9)SRINIVASAN, UMA Address of Applicant :DEPARTMENT OF COMPUTER APPLICATIONS, B.M.S COLLEGE OF ENGINEERING, BANGALORE ----- 10)MOHAN, PUSHPA Address of Applicant :4AC-304, 3RD BLOCK, HRBR LAYOUT, BEHIND JALA VAYU VIHAR, KALYANNAGAR, BANGALORE-560043 ----- 11)KOTHAPELLI, PUNNAM CHANDER Address of Applicant :QUARTER NO.T1, PROFESSORS QUARTERS, UNIVERSITY COLLEGE OF ENGINEERING, BHADRADRI KOTHAGUEDEM, TELANGANA STATE-507154 ----- 12)BASWARAJU, SWARNALATHA Address of Applicant :H.NO. 11-25-162, KOTHAWADA, WARANGAL, TELANGANA STATE-506002 -----</p>
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(57) Abstract :
ABSTRACT AN ELECTRONIC FOOD ORDERING DEVICE WITH IOT CONNECTIVITY AND METHOD THEREOF The present invention discloses an electronic food ordering device with IoT connectivity for ordering food items in restaurant and method thereof. The method and system include, but not limited to, a touch sensitive display device provided with a user interface for ordering food items from a plurality of food items; a processing unit embedded in a housing of the touch sensitive display device with a wireless communication means for connecting a computer system provided at the kitchen of the restaurant. FIG. 1

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060615 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : 90 DEGREE MECHANICAL RATCHET SCREW DRIVER WITH SPRING LOADED HEAD AND TORQUE CONTROLLER FOR USE IN MAXILLOFACIAL TRAUMA

(51) International classification :B23P0019060000, A61F0002080000, B25B0015000000, B25B0013460000, B25B0023000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

TITLE: 90 DEGREE MECHANICAL RATCHET SCREW DRIVER WITH SPRING LOADED HEAD AND TORQUE CONTROLLER FOR USE IN MAXILLOFACIAL TRAUMA APPLICANT: ADHIPARASAKTHI DENTAL COLLEGE AND HOSPITAL ABSTRACT The present invention discloses a 90 degree ratchet screw driver head with torque controller for use in Maxillofacial surgery. The 90 degree ratchet screw driver head with torque controller of the present invention comprises of a handle [1] characterized in that a. positioning a detachable spring loaded ratchet screw driver head[2] at an angle of 90 degrees with respect to the handle[1] and adapted to execute unidirectional screw tightening mechanism thereby allowing to approach inaccessible areas with minimum retraction and angulation of screw drilled into bone at 90 degree and the head[2] is configured to hold 1.5mm or 2mm titanium screws and b. housed with Torque measuring system [3] thereby helping to access the stability of screw fixed into the bone.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060641 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Design System of Automated X-Ray Image Recognition System for Patient Using DCNN

(51) International classification :G06K0009620000, G06N0003040000, G06K0009000000, G06N0020000000, G16H0050200000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 In the automatic identification of Covid-19, deep learning algorithms have gotten a lot of attention, and transfer learning is the most prevalent strategy. Coronavirus illness (COVID-19) has had a significant impact on the worldwide healthcare system and economy. Doctors, researchers, and specialists are working on new techniques to detect COVID-19 more quickly, such as developing automatic COVID-19 detection devices. By analyzing chest X-ray pictures, an automatic detection system called DCNN was presented to identify COVID-19 patients. Grayscale images are accepted as inputs by DCNN, which makes it appropriate for training with a small training dataset. To extract deep and high-level features from X-ray pictures of patients infected with COVID-19, a convolutional neural network was created with a focus on model simplicity. Binary machine learning classifiers (random forest, support vector machine, decision tree, and AdaBoost) were created to detect COVID-19 using the collected features. Finally, the outputs of these classifiers were pooled to create an ensemble of classifiers, ensuring improved results for datasets of varying sizes and resolutions. In comparison to other deep learning-based systems that have recently been developed.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060642 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR SPIRAL HELICAL GEAR SETUP FOR SIMULTANEOUS AMPLIFICATION OF SPEED AND TORQUE

(51) International classification :F16K0031528000, A61N0001360000, A61M0025090000, A61M0025010000, B23F0007000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (10) and a method (500) for spiral helical gear setup for simultaneous amplification of speed and torque is provided. The system includes a spiral helical gear shaft (20) mechanically coupled with an input shaft gear (60). The spiral helical gear shaft is adapted to rotate corresponding to a rotation of the input shaft gear. The spiral helical gear shaft includes first spiral helical gear profiles (30) corresponding to a left hand helical gear and a right hand helical gear grooved in oppositely. The system includes a herringbone gear (40) to rotate a herringbone gear shaft (50) corresponding to the rotation and gear ratio of the spiral helical gear shaft. The system includes a cam (70) to provide a linear displacement to the herringbone gear over the herringbone gear shaft by converting rotary motion of the input shaft gear to a linear motion, thereby resulting in simultaneous amplification of speed and torque. FIG. 6

No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : The Impact of Grievances Handling Procedure with reference to employment

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030000000, G06Q0050260000, G06Q0090000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The Impact of Grievances Handling Procedure with reference to employment Abstract: A randomised controlled trial will be used to determine whether the grievance process at a private bank affects lower-level managers' job satisfaction. According to a study, bank employees are dissatisfied with their work environments, current workloads, or long work hours. As a result, it has become increasingly difficult to retain and retain the best employees in a company. Lower-level managers at a private bank will be polled on their job satisfaction and how the grievance handling process affects their job satisfaction in this study. Employees at the private bank were given a questionnaire with 55 questions and statements on a five-point scale. The questionnaire was distributed to 105 lower-level managers. People classified questions and statements into three categories based on what they said: The data analysis included univariate and bivariate analyses. According to the study's findings, lower-level managers at the chosen private bank are happier with their jobs because of the way they can raise issues. Lower-level managers were more satisfied with their jobs as a result of the findings, citing factors such as the timeliness of grievance handling procedures, the structure of the procedures, the fairness of the procedures, and the involvement of managers and the trade union. According to empirical data, the way the company handles complaints affects lower-level bank managers' job satisfaction. Lower-level workers are more satisfied with their jobs when complaints are handled quickly and fairly; however, they are less satisfied if they are not fair and participatory. Even though this study only looks at one type of employee, people can draw conclusions. They can improve their company's overall effectiveness if they follow the recommendations.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060646 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Multipurpose Device to increase the productivity of a manufacturing sector

(51) International classification :B23Q0037000000, B28D0007020000, A44B0018000000, G06Q0010060000, B28D0001000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Multipurpose Device to increase the productivity of a manufacturing sector Abstract: This project combines multipurpose machining attachments, such as a sawing, shaping, grinding, and drilling tool, into a single machine. As a result, there is no longer any danger in moving materials from one machine table to the next. The primary goal of a business is to produce useful products and services at low production costs while investing as little as possible in equipment and inventory. Technology advancement has made everything in this world easier and faster, but it has also necessitated significant investments and expenditures. Every industry in the world strives for a high productivity rate while maintaining product quality and standards. To power the proposed multipurpose device, a 1.00 horsepower alternating current motor spins the machine at 1440 revolutions per minute. The motor is connected to the machinery via a belt and pulley system with an overall stroke length of 75mm. Slotting machines have tillable heads that allow them to be positioned on the shaping machine at various angles. The bottom edge of the head is welded to the bottom edge of the slider. When a single machine can perform five machining operations, there is less need for floor space and less time spent moving material between machines. When all of these processes work together, the plant's productivity skyrockets.

No. of Pages : 11 No. of Claims : 9

(54) Title of the invention : BLOCKS WITHOUT CEMENT FOR PAVING APPLICATIONS

<p>(51) International classification :C08L0095000000, C04B0028020000, C04B0018080000, E01C0005220000, E01C0005000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE Address of Applicant :K.R.NAGAR, KOVILPATTI – 628503, TAMIL NADU, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Franchis David M Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>2)Sebastin S Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>3)Bamini K K Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>4)Hema Priyadharshini M Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>5)Jaya Prakash G Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>6)Muhammed Suhail M Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p>
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(57) Abstract :

Blocks without cement for paving applications are disclosed. Said blocks broadly comprise: fly ash; a NaOH solution; a Na₂SiO₃ solution; coarse aggregates; and crumb rubber. Said blocks may also comprise: a super plasticizer; and/or water. Said blocks: may be rectangular or hexagonal; have a compressive strength of about 16 MPa; and have a good abrasion resistance. Examples of the paving applications for which said blocks are suitable include, but are not limited to: non-traffic areas; pedestrian walkways or pathways; indoor applications; and/or outdoor applications. Said blocks offer at least the following advantages: do not comprise cement; do not comprise sand; allow water from precipitation to percolate through to the ground, thereby reducing runoff and recharging the ground water table; are manufactured through a minimal manufacturing process (takes only 3 days to complete the process); and are cost-effective.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060653 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN APPARATUS FOR INJECTING PLANT GERMINATING MEMBERS

(51) International classification :A63B0067060000, H04L0009080000, F16D0021060000, B29B0015120000, B32B0037140000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

An apparatus for injecting plant germinating members is disclosed. Said apparatus broadly comprises: an at least a tossing member (5); an at least a dispersing facilitating member (9); and an array of locomotion members (4). Said at least one tossing member (5) is configured to comprise a tossing member receptacle (10), in which plant germinating members are filled. An array of tossing units (13) extends radially outwards from a horizontal member (12). Each tossing unit among said array of tossing units (13) broadly comprises a receiving member (14). Said plant germinating members received by said receiving member (14) are transferred to a receptacle (8), and are subsequently guided to said at least one dispersing facilitating member (9). The disclosed apparatus offers at least the following advantages: requires less user effort; is not labour-intensive; is simple in construction; is cost-effective; is effective under both dry and moist conditions; is rugged; and does not affect a ploughed land.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060654 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN APPARATUS FOR THE DECLUTTERING OF REFUSE FROM FREE-FLOWING GARBAGE

(51) International classification :B63B0035440000, A63B0026000000, B08B0009080000, C02F0103060000, C23C0016500000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :

An apparatus for the decluttering of refuse from free-flowing garbage is disclosed. In an embodiment of the present disclosure, said apparatus is configured for free-flowing garbage that is conveyed through a free-flowing garbage line, with platforms on either side. Said apparatus broadly comprises: a base member (1); at least four locomotion members (2); a skidding mechanism (3); a plurality of support members (4); at least two power transmission members (5); an at least a refuse collecting receptacle (13); a torque generating member (7); and a refuse storing receptacle (11). In another embodiment of the present disclosure, said apparatus is configured for free-flowing garbage that is conveyed through a free-flowing garbage line, with a platform on a single side. The disclosed apparatus offers at least the following advantages: is simple in construction; is cost-effective; prevents free-flowing garbage lines from getting clogged; eliminates or reduces human involvement in the decluttering of refuse from free-flowing garbage; and it does not require to be lowered into the free-flowing garbage.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060655 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN APPARATUS FOR REAPING OF SODIUM CHLORIDE

(51) International classification :C04B0028020000, B25B0021020000, B25B0023145000, F15B0013020000, B26B0021400000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An apparatus for the reaping of sodium chloride for small-scale and medium-scale producers is disclosed. Said apparatus broadly comprises: a base member (10); a scraping member (20); at least three fastening members (150, 160, and 170); an at least a hydraulic power supply member (30); a moving unit (40); an at least a hydraulic torque generating member (50); a storing member (80); and an at least a hydraulic actuating member. The disclosed apparatus offers at least the following advantages: is simple in construction; is cost-effective; is affordable to small-scale and medium-scale producers; does not require skilled labour; and reduces production costs.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : AN APPARATUS FOR DERIVING A NATURAL SWEETENER

(51) International classification :F16F0009320000, H01R0031060000, A01C0015000000, G01N0021590000, F16D0021060000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

An apparatus for deriving a natural sweetener for micro-scale, small-scale, and medium-scale operations is disclosed. Said apparatus broadly comprises: a heat supplying member (1); a receptacle (3) that is configured to hold a raw material; an agitating mechanism (2); and a hoisting mechanism. Said heat supplying member is configured to broadly comprise: a second receptacle (9); a smoke dissipating member (8); and a dust collecting member (7). Said hoisting mechanism is configured to broadly comprise: a base member (6); a connecting member (4); and a plurality of lift facilitating members (5). The disclosed apparatus offers at least the following advantages: is simple in construction; is cost-effective; is configured for small-scale, micro-scale, and medium-scale operations; is portable; and does not require skilled labourers.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060714 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING AND DETECTING BOOK DATA TO ASSIST READER FOR FUTURE READING

<p>(51) International classification :G09B0005020000, H04N0005232000, G09B0005060000, G09B0007000000, H04N0001320000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)CMR TECHNICAL CAMPUS Address of Applicant :CMR Technical Campus, Kandlakoya (V, Medchal Rd), Hyderabad, Telangana 501401.India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. SUWARNA GOTHANE Address of Applicant :CMR Technical Campus, Kandlakoya (V, Medchal Rd), Hyderabad, Telangana 501401.India. -----</p> <p>2)Dr.K.SRUJAN RAJU Address of Applicant :CMR Technical Campus, Kandlakoya (V, Medchal Rd), Hyderabad, Telangana 501401.India. -----</p> <p>3)Dr.G.VINODA REDDY Address of Applicant :CMR Technical Campus, Kandlakoya (V, Medchal Rd), Hyderabad, Telangana 501401.India. -----</p> <p>4)K.MURALI Address of Applicant :CMR Technical Campus, Kandlakoya (V, Medchal Rd), Hyderabad, Telangana 501401.India. -----</p> <p>5)U.RAGHAVENDRA SWAMY Address of Applicant :CMR Technical Campus, Kandlakoya (V, Medchal Rd), Hyderabad, Telangana 501401.India. -----</p> <p>6)Dr.G.NARSIMHA Address of Applicant :JNTUH College of Engineering, Sultanpur, Sangareddy, Telangana- 502001, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for monitoring and detecting book data to assist reader for future reading, comprising an automatic finger clip bookmark-reading device comprising an audio sensor configured to listen reader voice and records audio reader voice. A motion sensor and a contact sensor configured to trace and read the cover page and last page of the book where the reader stopped reading. A camera configured to scan the cover page and the page number until the reader completes the reading. A memory unit configured to store the book data and maintain the book data for future long-term recall. A Bluetooth interface configured to transfer the book data to a processing device, the processing device configured to deliver the book data to a computing device over a network to assist reader for future reading. Fig. 1

No. of Pages : 21 No. of Claims : 9

(54) Title of the invention : PROCESSING LOW-COST FEEDSTOCK'S INTO HIGH QUALITY BIODIESEL WITH A NOVEL CHEMICAL MULTI FUNCTIONAL PROCESS INTENSIFIER METHOD

<p>(51) International classification :C11C0003000000, C10L0001020000, C11B0013000000, C11C0001100000, C12P0007640000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. Ravikumar R Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p> <p>2)Mr. Kiran K 3)Dr. Gurumoorthy S Hebbar 4)Dr. Sasidhar Jangam 5)Dr. Ramesha K 6)Mr. Harish Kumar M 7)Mr. Umesh V</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Ravikumar R Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p> <p>2)Mr. Kiran K Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p> <p>3)Dr. Gurumoorthy S Hebbar Address of Applicant :Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. -----</p> <p>-----</p> <p>4)Dr. Sasidhar Jangam Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p> <p>5)Dr. Ramesha K Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p> <p>6)Mr. Harish Kumar M Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p> <p>7)Mr. Umesh V Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, CHRIST University, Bangalore-560074. ---</p> <p>-----</p>
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(57) Abstract :

A method and apparatus for producing a cost-effectively purified biodiesel product from feedstocks are provided. It is possible to utilize both a crude feedstock pretreatment process and a free fatty acid refining process in certain implementations before transesterification and the creation of crude biodiesel and glycerin. When it comes to biodiesel refining, there are several options. As a result of these operations, a pure biodiesel product that meets various commercial requirements may be produced. Biodiesel may be made from a wide variety of feedstocks that would not normally fulfil the same commercial criteria, such as maize oil, spent cooking oil, chicken fats, fatty acid distillates, pennycress oil, and algal oils. Most biodiesel feedstocks are derived from corn oil. Feedstock refining must be done in conjunction with biodiesel refining techniques if waxes, high free fatty acid levels, unacceptable colour, high unsaponifiable levels, and high sulphur levels are to be avoided.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060809 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FRESHWATER MUSSEL EXTRACT HAVING HIV-1 REVERSE TRANSCRIPTASE INHIBITION

(51) International classification :A61K0035618000, A23L0033105000, C11B0003000000, C07C0051480000, C11B0001100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT FRESHWATER MUSSEL EXTRACT HAVING HIV-1 REVERSE TRANSCRIPTASE INHIBITION The present invention relates to the freshwater mussel extract fractions (HXF, CTF, CFF and AQF) having HIV-1 reverse transcriptase inhibition, more particularly to hexane fraction (HXF), carbon tetrachloride fraction (CTF), chloroform fraction (CFF) and aqueous fraction (AQF), obtained from methanol crude extract of freshwater mussel (*Lamellidens marginalis* Li) and separating with solvent-solvent fractionation method, a method for efficient extraction and fractionation of the same and an anti-HIV composition comprising the fractions as an active ingredient. This substance is suitable for use in the therapeutic applications of AIDS.

No. of Pages : 22 No. of Claims : 5

(54) Title of the invention : Urban Agro-Farming In Rain Water Harvesting Channels

(51) International classification :A01G0007040000, A01G0025020000, A01G0009020000, A01B0079020000, A61N0001365000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A rainwater channel is constructed, and planting slabs are fixed. After installing the planting medium in the slab, desired plants are cultivated in it. After the required growth, it is harvested and supplied to the nearby residents. A drip irrigation system is implemented and use water most efficiently for plant growth. Further, no extra nutrients are supplied, and Pesticides are completely avoided thus ensure natural growth. (Refer Fig. 1)

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : ECO FRIENDLY INTERLINKED HYBRID ABSORBENT POLYMER AS PLANTING MEDIUM FOR REDUCING FREQUENCY OF IRRIGATION

<p>(51) International classification :A01G0009020000, A01G0013020000, A01G0029000000, A01N0065260000, A61L0015600000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)R.M.K. College of Engineering and Technology Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sudhakar K Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>2)Dr.Devi G Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>3)Dr. Devan P.K. Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>4)Mr.J.Jagadeesh Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>5)Mr.M.Karthik Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>6)Muthuganesh J Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>7)Karthikeyan S Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p> <p>8)Jagan D Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu 601206. India -----</p>
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(57) Abstract :

The present invention relates to an eco-friendly interlinked hybrid absorbent polymer for organic agro-farming in RWH channel. More specifically a planting medium, this can reduce the water usage and available water can be used efficiently and effectively. This was prepared using Jackfruit rags as base material, ground neem seeds, citron juice, coir pith, urad dal skin with water and moringa tree resin. The said polymer is non-polluting and biodegradable, helps in reducing irrigation frequency & water consumption and creates a simple cyclic process to provide water directly to roots, prevent soil compaction and provides better yield. Hybrid absorbent polymer can be made in solid/spherical blocks and kept near the plant roots and as well as used as planting medium. Hybrid absorbent polymer absorbs water and getting converted into porous gel and retains moisture even during monsoon failure.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : METHOD FOR QUANTIFICATION OF DEGRADATION PRODUCTS FORMED DURING FORCED DEGRADATION STUDIES FOR RALTEGRAVIR

(51) International classification :G01N0030880000, A61K0039395000, G01N0030060000, G06Q0050220000, A61K0031513000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a forced degradation is a degradation of new drug substance and drug product at conditions more severe than accelerated conditions. The present invention aims to develop and validate an LC-MS/MS method for precise quantification of degradation products formed during forced degradation studies for Raltegravir. Discloses methods to isolate the major degradation product formed during the forced degradation study and elucidate the structure based on HR MS analysis. The standard solution of Raltegravir was subjected to various stress conditions for 48hrs at room temperature. Then the samples were collected and analysed utilizing the optimized RP-HPLC conditions. A total of seven degradation products formed during various stress studies were isolated, elucidated for the plausible structures. Fig. 1

No. of Pages : 31 No. of Claims : 9

(54) Title of the invention : AN IMPROVED METHOD FOR SMART AND AUTOMATED BILLING SYSTEM IN SHOPPING MALLS

(51) International classification :G06Q0030040000, H04M0015000000, G07F0015000000,
G06Q0020120000, G06Q0020140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Due to current scenario of Covid-19, all the outlets are functioning as per the protocols shared by the government of India. The major problem arises to maintain a proper social distance and controlling too many crowds and rushes over the billing section and counters. To overcome this problem, the present invention focuses on developing a device that supports billing of articles or products and facilitates payment of billed amount through the same. The system will indicate the persons who have paid for their items through Internet of Things enabled with green signal and let them go. Thus, the proposed invention also avoids the number of man power employed which is very essential to reduce the time for billing and thereby reducing the crowd in malls.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060885 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IOT BASED RAIN WATER QUALITY MONITORING SYSTEM

(51) International classification :H04L0012935000, H04N0021266200, H04L0005140000, H04N0005781000, A01C0023040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a system for monitoring rainwater quality using an apparatus in agricultural fields. A user (2) consists of an interface device (3) which is connected to a server (11). Said server (11) is connected to the apparatus (21) and data is transmitted from apparatus (21) to interface device (3) through server (11). Said apparatus (21) consists of a funnel (22), a transceiver (23), a plurality of support members (24, 25, 26, 27), and a center portion (31). FIG-1

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060903 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD OF MANUFACTURING QUATERNARY BLENDED SELF COMPACTING CONCRETE AND EVALUATION OF THE SAME

<p>(51) International classification :C04B0028080000, E04G0021080000, C04B0007170000, C04B0111200000, C04B0111000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. G. Sree Lakshmi Devi Address of Applicant :Associate Professor, Department of Civil Engineering, Vignana Bharathi Institute of Technology (Autonomous), Aushapur (V), Ghatkesar (M), Medchal Dist, Hyderabad-501301, Telangana -----</p> <p>2)Dr. C. Venkata Siva Rama Prasad</p> <p>3)Dr. P. Srinivasa Rao Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. G. Sree Lakshmi Devi Address of Applicant :Associate Professor, Department of Civil Engineering, Vignana Bharathi Institute of Technology (Autonomous), Aushapur (V), Ghatkesar (M), Medchal Dist, Hyderabad-501301, Telangana -----</p> <p>2)Dr. C. Venkata Siva Rama Prasad Address of Applicant :Assistant Professor, St. Peter's Engineering College (Autonomous), Opposite TS Forest Academy Dullapally, Maisammaguda, Medchal, Hyderabad-500043, Telangana -----</p> <p>-----</p> <p>3)Dr. P. Srinivasa Rao Address of Applicant :Professor, Department of Civil Engineering, JNTUH College of Engineering Hyderabad (Autonomous), Kukatpally, Hyderabad-500085, Telangana -----</p> <p>-----</p>
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(57) Abstract :

ABSTRACT OF THE INVENTION METHOD OF MANUFACTURING QUATERNARY BLENDED SELF COMPACTING CONCRETE AND EVALUATION OF THE SAME Embodiments of the present invention relate to a method of manufacturing quaternary blended self compacting concrete (QBSCC) and evaluation of the same. The quaternary blended self compacting concrete comprises 40% cement, 25% fly ash (FA), 25% ground granulated blast furnace slag (GGBS) and 10% micro silica (MS). Figure of abstract: FIG. 1

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060911 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ALPHA GLUCOSIDASE INHIBITORY ACTIVITY OF NOVEL RUTHENIUM(II)-POLYPYRIDINE COMPLEXES CONTAINING 4-AMINO-5-(4-PYRIDYL)-4H-1,2,4-TRIAZOLE-3-THIOL LIGANDS

(51) International classification :C07F0015000000, C12N0009420000, B01J0031240000, C07D0213380000, A61K0031440000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Soft Copy Attached in PDF

No. of Pages : 24 No. of Claims : 6

(54) Title of the invention : Detecting Land Movement and Estimating Soil Moisture Data Using Multi-Temporal UAV Images Using a Machine Learning Model

(51) International classification	:E02D0017200000, G06T0017050000, G08B0021100000, G06N0003080000, G06T0005000000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(62) Divisional to Application Number	:NA
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(57) Abstract :

Landslides are common and hazardous natural hazards that occur all throughout the world, often wreaking havoc on human lives and public and private property. To avoid or mitigate the potential harm, it is critical to identify landslide-prone locations. A slope failure in geographical and/or temporal terms can be used to predict landslides. When expressed in geographic terms, it is referred to as a landslide susceptibility map (LSM), which is defined as the probability of slope failures occurring in a specific location. It is frequently referred to as a landslide hazard map when it is shown in a mix of spatial and temporal distribution of landslide susceptibility (LHM) The production and comparison of LHM and LSM utilizing remote sensing data are presented in this publication. In addition, this paper demonstrates how to detect land movement and estimate soil moisture using multi-temporal UAV photos. The obtained photos can't be used for landslide detection or soil parameter extraction unless they've been processed to ensure that all pixels are in the same (x, y) position on the ground. Photogrammetry is a discipline for processing photos to obtain correctly georeferenced orthorectified images that has been developed over many decades. Orthorectification is a technique for removing geometric distortions induced during image capture and producing a planimetric visual result, such as a map. Detecting Land Movement and Estimating Soil Moisture Data Using Multi-Temporal UAV Images Using a Machine Learning CNN Model Combining a land surface detection and extraction of soil moisture content, we investigated the workflow of using a UAV with an optical digital camera to acquire a knowledge of slope dynamic and stability.

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : REMOTE AUTHENTICATION SYSTEM AND METHOD

(51) International classification :G06F0021320000, G16H0010600000, G06Q0050220000, G08B0025000000, G16H0040200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A remote authentication system (100), the system (100) comprising: a processor (104) located on an application server (102); a storage medium (106) comprises: a registration module (200) adapted to register a profile of a user for enabling the user to avail medical services; a user authentication module (202) adapted to authenticate credentials of the user by matching a biometric input provided through a user device (108) with pre-stored biometric information in the storage medium (106); a data requesting module (204) adapted to enable the user to request a medical data from a hospital database (116); a data fetching module (206) adapted to fetch the requested medical data from the hospital database (116) on a successful authentication of the credentials of the user;and a data displaying module (208) adapted to display the fetched medical data on the user device (108) in a pre-defined format.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061042 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD OF PREPARING ADHESIVE FROM TAMARIND SEEDS

(51) International classification :A61K0045060000, A61K0036480000, C08L0005080000, B29C0065480000, F02D0041000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :

A method (400) of preparing an adhesive (300) using tamarind seeds (100), wherein the method (400) comprising steps of: cleaning a first predefined amount of the tamarind seeds (100) to remove impurities; removing a kernel of the tamarind seeds (100) using a kernel removal technique; soaking kernel removed tamarind seeds (200) in a solvent (202) for a first predefined duration of time; making a polysaccharide mixture of the soaked tamarind seeds (200) along with the solvent (202) using a grinding technique; adding a second predefined amount of a binding agent to the polysaccharide mixture to form a binding agent-polysaccharide complex; heating the binding agent-polysaccharide complex to form a consistent mixture for a second predefined duration of time; and adding a third predefined amount of an antifungal agent and a fourth predefined amount of the solvent (202) to prepare the adhesive (300).

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061043 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR FUEL QUANTITY MONITORING

(51) International classification :G01F0023260000, G01F0023000000, G01F0023360000, G01F0023300000, G01F0023680000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A system (100) for a fuel level monitoring, the system (100) comprising: a float resistor (102) placed inside a fuel tank, to sense a level of fuel present inside the fuel tank; and a control unit (104) connected to the float resistor (102), wherein the control unit (104) is configured to: receive the sensed level of the fuel present inside the float resistor (102) from the float resistor (102); convert the sensed level of the fuel into a volumetric unit; and display the converted sensed level of the fuel using a display unit (106).

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061062 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : GRIPS ON - Silicone Case for Buffet Plates

(51) International classification :H04B0001388800, A45C0013020000, A61J0001030000, A44C0009000000, G06F0003035400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The silicon case can a removable, reusable and washable case for buffet plates, with finger ring and palm strap. The case provides grip and ergonomically reduces the strain caused in the palm and thumb finger while holding the buffet plates for long. The case is designed in such a way that it doesn't allow the plates to be broken or fell down and keeps the palm in rest and comfort. (Refer Fig. 1)

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061063 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Inclinal Baby Hammock

(51) International classification :A47D0015000000, A47D0009000000, A47D0007030000, A47D0013020000, A47D0007010000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The objective of the present invention is to design and develop a hanging baby crib to keep the baby in position while sleeping. According to the embodiment of the present invention, the hanging baby crib has hooks at regular intervals so that the angle of the crib can be changed. A built-in safety strap changes the angle of the crib to keep the baby in position.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061064 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Hands Free Door Open

(51) International classification :E05B0053000000, E05B0047000000, E05F0013020000, E05F0011540000, E05B0017000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The objective of the present invention is to provide a foot-operated door opening structure, which mainly allows the user to directly control the opening of the door with the soles of the feet. According to the embodiment of the present invention, the foot-operated door opener has a foot pedal which can be displaced in the vertical direction, a connecting line for connecting the foot pedal to a manually operated door opener and a fastening means for fastening the connecting line to the manually operated door opener. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061065 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ARM-DLE

(51) International classification :G07C0009000000, E05B0001000000, E05B0017000000, E05B0053000000, G11C0011409700
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
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(57) Abstract :

The present invention generally relates to a safety device. More specifically, the invention describes a design and development of a device for open doors without touching them with your hands. The device is operated by pulling the door using your forearm or elbow to open the door and never have to touch the handle with your hand. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061066 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Automatic Hand Dispenser

(51) International classification :A61K0008410000, A47K0005120000, H01M0004130000, A47K0010480000, B05B0011000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The objective of the present invention is to design and develop an automatic hand dispenser with germ detector. The dispenser dispenses a required amount of hand wash, after scanning the germs in one's hands. The hand dispenser has a refill cabinet and a battery area, each unit has a waste collector, where the liquid residue will be collected and can be taken out, if necessary. When a hand is sensed, within seconds a black light will be emitted to detect the germs. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : PRESSURE SENSITIVE MANUAL/HANDHELD TOOTHBRUSH

<p>(51) International classification :A46B0015000000, A46B0005000000, A61B0005000000, A61C0017260000, A46B0009040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)TAGORE DENTAL COLLEGE AND HOSPITAL Address of Applicant :TAGORE DENTAL COLLEGE AND HOSPITAL MELAKOTTAIYUR, RATHINAMANGALAM CHENNAI TAMIL NADU INDIA 600127 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. JUALA CATHERINE JEBARAJ Address of Applicant :A4 PRARTHANA BLOCK, THE GROVE APARTMENTS, CITY LINK ROAD, ADAMBAKKAM, CHENNAI TAMIL NADU INDIA 600088 -----</p> <p>2)DR. BHUVANESWARI BIRLA BOSE Address of Applicant :NO:70/1 HIG II, 4 th CROSS STREET, NOLAMBUR, TNHB COLONY MOGAPPAIR WEST, CHENNAI TAMIL NADU INDIA 600037 -----</p> <p>3)DR. CAKKU JALLIAH VENKATAKRISHNAN Address of Applicant :BRINDAVAN, PLOT NO :4, DOOR NO: 5 VALLIAMMAI NAGAR II STREET, VALSARAVAKKAM, CHENNAI TAMIL NADU INDIA 600 087 -----</p>
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(57) Abstract :

TITLE: PRESSURE SENSITIVE MANUAL/HANDHELD TOOTHBRUSH APPLICANT: TAGORE DENTAL COLLEGE AND HOSPITAL ABSTRACT The present invention discloses a pressure sensitive manual/handheld toothbrush having adjustable pressure setting thereby enabling an user to apply appropriate pressure on the teeth and thus preventing mechanical wear of the tooth and thus avoiding damage to the teeth and the gingiva leading to tooth sensitivity, cervical abrasions and gingival recession. The pressure sensitive manual/handheld toothbrush of the present invention comprises of a head[1] including a set of bristles attached thereto, a neck[2] and an handle[3].The invention is characterized in that (a) a pressure sensor[4] disposed within the head[1] for sensing the extent of pressure applied; (b) characterized cuff[5] encircling the neck[2] adapted to rotate at 3 levels comprising of loosening, tightening and normal and configured to provide flexibility to the head[1] through a force sensitive resistor [10] depending on the levels in which i. when the cuff[5] is positioned at the level of tightening, the head[1] become less flexible to permit a brushing force not more than 1 N; ii. when the cuff[5] is positioned at the level of loosening, the head[1] become more flexible to permit a brushing force not more than 3 N; iii. when the cuff[5] is positioned at the level of normal, the head[1] become medium flexible to permit a brushing force not more than 1.5 N; (c) a vibration sensor[6] integrated with the pressure sensor[4] and disposed within the handle[3] and configured to generate a warning vibration upon receiving excessive brushing force on the head[1]; (d) a charging port[8] positioned at the bottom of the handle[3] to charge tooth brush through a battery[7]; (e) an on/off switch[9] positioned on the handle[3] and integrated with the battery[7] for the working of the tooth brush.

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : DEVELOPMENT OF VALIDATED RP-HPLC METHOD FOR THE ESTIMATION OF ERLOTINIB IN PURE AND PHARMACEUTICAL DOSAGEFORM

<p>(51) International classification :G01N0030020000, G01N0033480000, G01N0030880000, H01J0049000000, G01N0027447000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)G. Sai Sri Lakshmi Address of Applicant :Nirmala College of Pharmacy -----</p> <p>2)M. Prasanthi Evangelin</p> <p>3)G.Radhika</p> <p>4)B.Pravallika</p> <p>5)G.Krishna vamsi</p> <p>6)G. Chandra sekhar Sai</p> <p>7)k.Arathi</p> <p>8)y.Elisha</p> <p>9)Sk.Zakeer</p> <p>10)N.Harichandana</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)G. Sai Sri Lakshmi Address of Applicant :Nirmala College of Pharmacy -----</p> <p>2)M. Prasanthi Evangelin Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>3)G.Radhika Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>4)B.Pravallika Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>5)G.Krishna vamsi Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>6)G. Chandra sekhar Sai Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>7)k.Arathi Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>8)y.Elisha Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>9)Sk.Zakeer Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p> <p>10)N.Harichandana Address of Applicant :SIMS college of pharmacy, Guntur, Andhra Pradesh, India - -----</p>
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(57) Abstract :

For routine analytical purpose it is desirable to establish methods capable of analyzing huge number of samples in a short time period with good robustness, accuracy and precision without any prior separation step. HPLC method generates large amount of quality data, which serve as highly powerful and convenient analytical tool. Erlotinib was slightly soluble in methanol and very slightly soluble in water. Methanol and Mixture of Buffer was chosen as the mobile phase. The run time of the HPLC procedure was 10 minutes. The method was validated for system suitability, linearity, precision, accuracy, specificity, ruggedness, robustness, LOD and LOQ. The system suitability parameters were within limit, hence it was concluded that the system was suitable to perform the assay. The method shows linearity between the concentration range of 10-60 µg/ml. The % recovery of Erlotinib was found to be in the range of 99.86 % - 101.78 %. As there was no interference due to excipients and mobile phase, the method was found to be specific. The method was robust and rugged as observed from insignificant variation in the results of analysis by changes in flow rate and wavelength separately and analysis being performed by different analysts.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061114 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : HYBRID METAL WOOD COMPOSITE FOR CIVIL APPLICATION

<p>(51) International classification :B33Y0070000000, B22F0003000000, B41J0003440000, C04B0026120000, B41F0023000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.R.Ganesan Address of Applicant :Professor and Head, Department of Civil Engineering, Saveetha School of Engineering, Saveetha Nagar, Thandalam, Chennai, Tamil Nadu, Inida 602105. ----- -----</p> <p>2)Dr.A.Latha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.R.Ganesan Address of Applicant :Professor and Head, Department of Civil Engineering, Saveetha School of Engineering, Saveetha Nagar, Thandalam, Chennai, Tamil Nadu, Inida 602105. ----- -----</p> <p>2)Dr.A.Latha Address of Applicant :Professor, Department of Civil Engineering, Panimalar Engineering College, Bangalore Trunk Road, Varadharajapuram, Nasarathpettai, Poonamallee, Chennai, Tamil Nadu, India 600123. -----</p>
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(57) Abstract :

The present invention is all about the synthesis of weird metal alloy with wood powder along with it is used for civil application. During synthesis, need to identify the suitable binder in this case, which plays pivotal role. The synthesised material should be in suitable state to print, for that simple 3D printing technique is used along with modification of supplying the heat from the printer bed. The post process is carried out after printing it should be coated with a layer of same metal and or metal alloys. It is required to keep in the oven to evaporate the binder which is added to composite. The composite after evaporation of binder become harder than the printed one. It has to be examined for the internal defects. The other pivotal parameter to look into this printed composite specimen possesses better strength.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : DEEP LEARNING BASED FAST CORNER DETECTION ALGORITHM USING MATLAB

(51) International classification :G06N0003080000, G06N0003040000, G06K0009620000, G06T0007730000, G06T0007000000

(86) International Application No Filing Date :NA :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 The present invention is deep learning based FAST corner detection algorithm using MATLAB a process of using the deep learning algorithm to detect the corner in better, faster along with higher accuracy therein, the MATLAB is the hybridised over the collected data, thereby it increase the accuracy. The level accuracy is enhanced by the proper embedment of algorithm during the prefect time in the analysis.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061136 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DIMERIC PYRIDINIUM SALTS AND ITS ANTI BACTERIAL AND ANTIFUNGAL EFFICACY

(51) International classification :A61K0047020000, A61K0009000000, A61K0031315000, C12R0001385000, A61K0009107000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Amino / N.N-dimethyl amino substituted dimeric pyridinium bromides are prepared from easily available starting materials. After completion of the reaction, even column chromatography is also not required for purification. Target molecules are completely soluble in polar hydrophilic and hydrophobic solvents due to the presence of hydrophobic and hydrophilic segments in the molecules. Target molecules are non-toxic, thermally and chemically more stable. Target molecules contain dimeric cations which helps in easy binding of Gram-positive and Gram-negative human pathogens and showed effective inhibition. Staphylococcus aureus (MTCC 96), Klebsilla pneumonia (MTCC 39), Escherichia coli (MTCC 1652), Pseudomonas aeruginosa (MTCC A24) and fungal strains Aspergillus niger (MTCC 282), Fusarium oxysporum (MTCC 284) were chosen based on their clinical and pharmacological importance. In vitro anti-bacterial and anti-fungal activities were examined for substituted dimeric pyridinium salts 1, 1m, 6 and 6m as Antibacterial and antifungal activities of synthetic samples against four pathogenic bacteria and two pathogenic fungi were investigated. For the determination of zone of inhibition, pure Gram-positive, Gram-negative, and fungal strains were taken as a standard antibiotic for comparison of the results and all the extracts were screened for their antibacterial and antifungal activities against the Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus, Streptococcus pneumonia and the fungi Fusarium oxysporum, Aspergillus niger.

No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : INTELLIGENT SMART POLY HOUSE FOR ROOFTOP IRRIGATION

(51) International classification :A01G0025160000, A01G0027000000, F16K0031000000, F26B0025220000, A01G0009240000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention provides intelligent rooftop irrigation with smart control for polyhouse. The rooftop irrigation in polyhouse (1) consists of a user (2), an interface device (3) and a steel structural arrangement (4). The in polyhouse (1) is provided by a conduit (11), a plurality of sprinklers (12), air moisture and temperature sensing unit (13), a soil moisture sensing unit (14), an irrigation control unit (15). The method of rooftop irrigation consists of determining and analysis of various parameters by the irrigation control unit (15) and controlling the valve control unit (18). FIG-1

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : SYSTEM AND METHOD TO STUDY DYNAMIC PROPERTIES OF FIBRE REINFORCED SOIL AND VIBRATION ISOLATION

<p>(51) International classification :H01L0021762000, B32B0007120000, B32B0027060000, E04B0001980000, F16F0015080000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. EADALA RAKESH REDDY Address of Applicant :EE Engineering Construction Services, Plot no: 150, Kavuri Hills Phase 2 Rd, Doctor's Colony, Madhapur, Telangana 500033, India. -----</p> <p>2)Malla Reddy Engineering College (Autonomous) Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)EADALA RAKESH REDDY Address of Applicant :Plot No 150, Kavuri Hills Phase 2, Madhapur, Hyderabad - 500033, Telangana -----</p> <p>2)BASAVA VAMSI KRISHNA Address of Applicant :Department of Civil Engineering, Malla Reddy Engineering College, Main Campus Maisammaguda (H), Telangana State - 500100 -----</p> <p>3)BANDI HARITHA Address of Applicant :Plot No 150, Kavuri Hills Phase 2, Madhapur, Hyderabad - 500033, Telangana -----</p> <p>4)EADALA SAIBABA REDDY Address of Applicant :Plot No 150, Kavuri Hills Phase 2, Madhapur, Hyderabad - 500033, Telangana -----</p> <p>5)CNV SATYANARAYANA REDDY Address of Applicant :Department of Civil Engineering, Andhra University College of Engineering (Visakhapatnam), Andhra Pradesh. -----</p>
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(57) Abstract :

7. ABSTRACT: A method to study dynamic properties of fibre reinforced soil and vibration isolation is disclosed. The said method comprises steps of experimental investigation on vibration absorption, wherein the results from the experiments on vibration absorption (experimental series 1) will help to arrive at the media properties (i.e relative density), thickness of vibration absorption and role of fibers as damping material, whereas this will help in designing the structures subjected to dynamic forces. The method also comprises another step of experimental investigation on vibration isolation, wherein the results from the experiments on vibration isolation (experimental series 2) are expected to help understand the role of medium of isolating trench and depth of trench, whereas this will help in protecting the existing structures from the vibration of the neighboring structures. The method finally involves preparing numerical models, wherein this will help to extrapolate the results for various conditions of vibration to the foundation soil. The Figure associated with Abstract is Fig 1.

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : HOME AUTOMATION CONTROL BASED ON INDIVIDUALIZED PROFILING AND METHOD THEREOF

<p>(51) International classification :H04L0012280000, G05B0015020000, G05B0019042000, H04L0012640000, G06Q0040000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College (Autonomous) Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- - Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)BODA AISHWARYA Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 2)BUSSA SATHWIKA Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 3)Dr.A.Ramaswami Reddy Address of Applicant :Director & Professor,CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 4)SANJEEVA POLEPAKA Address of Applicant :Associate Professor M.Tech, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 5)Dr. Pattola Srinivas Address of Applicant :Professor Ph.D ,Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 6)B.Rajarao Address of Applicant :Assistant Professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 7)Dr. B HARI KRISHNA Address of Applicant :Associate professor Ph. D Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 8)G JAGAN NAIK Address of Applicant :Associate Professor,M.Tech, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 9)D Krishna kishore Address of Applicant :Associate professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 10)P.Andrews Himakiran Address of Applicant :Associate Professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- 11)Dr. T. Srinivas Reddy Address of Applicant :Associate Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :
7. ABSTRACT The present invention relates to home automation system, and non-transitory, machine-readable media that facilitate personalized home automation control based at least in part on individualized protocol. First sensor data may be received, and may be indicative of an identified individual that is sensed by a set of sensors. A particularized pattern of activity of individual may be determined. Second sensor data may be indicative of an unidentified individual. Identification rules specified by a stored protocol record may include criteria for identifying sensed individuals. The second sensor data and/or identification information from another data source may be analyzed to identify the unidentified individual. A home automation rule may be determined based on the particularized pattern, which rule may include an anticipation of an operational setting of a home automation device. The home automation device may be instructed based on the determined home automation rule. Refer Fig.1

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : WEB-BASED KNOWLEDGE MANAGEMENT & SHARING SYSTEM AND METHOD THEREOF

<p>(51) International classification :G06Q0050200000, G06Q0010100000, B62H0003000000, G06Q0050220000, G16H0040630000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College (Autonomous) Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)ABHINAV VENGALA Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>2)RICHITHA REDDY MUSKU Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>3)Dr.A.Ramaswami Reddy Address of Applicant :Director & Professor,CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>4)Dr .D.Krishna Madhuri Address of Applicant :Associate Professor, CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>5)V Rajasekhar Address of Applicant :Assistant professor, CSE Department,, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>6)N.Nitheesha Address of Applicant :Assistant Professor, CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>7)Arun Kumar Kandru Address of Applicant :Assistant Professor, CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>8)Dr.Jose Moses Gummadi Address of Applicant :Professor, Ph.D , Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>9)Dr.N.Supriya Address of Applicant :Associate Professor Ph.D, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>10)Rapolu Jyothirmai Address of Applicant :Assistant Professor, M.Tech, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :

7. ABSTRACT The present invention relates to an improved web-based, knowledge management system for an education system. More specifically, the present invention relates to public education systems generally, and particularly to a comprehensive, real-time, interactive knowledge management system with integrated reporting features. The improved web-based, knowledge management system includes functionality for multi-tier data-gathering, data analysis, and data reporting capabilities that link, integrate, and output data at the student, classroom, school, district, and state governmental levels.

No. of Pages : 19 No. of Claims : 20

(54) Title of the invention : A METHOD AND SYSTEM FOR SELLING PRODUCTS

<p>(51) International classification :G06Q0030060000, G06Q0030020000, G05B0019418000, G07G0001120000, G06Q0090000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College (Autonomous) Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. N. Ramanjaneyulu Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>2)Dr. G. Hema Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>3)Dr. M. Rajesh Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>4)Mr. Mandala Sreenivas Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>5)Dr. M. Vijaykumar Yadav Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>6)Mr. B. Kiran Kumar Reddy Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>7)Ms. S. Rajani Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>8)Ms. H. Nashara Khan Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :

7. ABSTRACT A method and system for selling products is disclosed, where the customer is guided through an interactive process that receives selection criteria from the customer relating to the type of product the customer would like to purchase. The method comprises a step of storing in a product data file a plurality of products or product designs to be sold. The method comprising another step of providing a product suitability data file, said product suitability data file including a plurality of product suitability matrices, each said product suitability matrix corresponding to one of said products or product designs stored in said product data file. Rather than seeking to identify products whose characteristics exactly match customer specifications, the system and method embodies one or more kinds of suitability data for the purpose of selectively retrieving some subset of best fitting or most appropriate products or product data files in response to customer data entry.

No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : WIRELESS INTERACTIVE AUDIENCE PARTICIPATION AT A LIVE ENTERTAINMENT EVENT

(51) International classification :G06Q0050000000, G06Q0030020000, G06Q0050200000, H04M0003510000, H04M0003560000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 7. ABSTRACT The present invention relates to a method and system that provides, interactive participation during activity occurring at a college campus venue. In a preferred embodiment of the invention, there is provided a method for enabling interactive participation by enrolled participants during activity occurring at a college campus venue attended by a plurality of persons. Each enrolled participant employs a wireless interactive device having a unique signature. With the help of this method, we can get healthy communication between students of all age and get accurate answers for our queries. Introverts can easily interact without any hesitations. It is a social media sites with no deviations. It has more security and privacy because no personal information is revealed. Refer Fig.1

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061192 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A DEVICE AND CHARGER UNIT USED IN A DARK ENVIRONMENT

(51) International classification :H02J0007000000, B60L0053160000, H01R0013639000, H01R0013717000, B60L0053340000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

TITLE: A DEVICE AND CHARGER UNIT USED IN A DARK ENVIRONMENT APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION AND RESEARCH ABSTRACT The present invention discloses a device and charger unit comprising a device (102), a charger, an USB cable, and a phosphorescent means for enabling easy charging port insertion in a dark environment for charging a device. The phosphorescent means comprises a first strip (108) of a first phosphorescent material capable of emitting a first colour, and a second strip (110) of a second phosphorescent material capable of emitting a second colour. The first colour is indicative of a top side and the second colour is indicative of a bottom side. The phosphorescent means is provided on the charge port (106) of the device (102) and a USB connector (104) of the USB cable correspondingly such that the first strip (108) is on the top side and the second strip (110) is on the bottom side. This enables correct insertion of the USB connector (104) into the charge port (102) of the device (102) in a dark place.

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : Iot based Data leakage prevention system for organizations and individuals

<p>(51) International classification :H04L0029060000, G06F0021620000, G06Q0030020000, G06F0021600000, G06F0016330000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Bhuvaneshwari P Address of Applicant :Assistant Professor MVJ college of engineering, Bangalore , 302B srivari gardens, AB Vajpayee road, kadugodi, Whitefield, Bangalore-560067 -----</p> <p>--</p> <p>2)Prof.(Dr.) Vinay Kumar Nassa 3)Dr. Harveen Kaur 4)Dr. Sudhansu Kumar Samal 5)Dr. G. RAMASUBBA REDDY 6)Dr. Kanika 7)Dr S Jothi 8)MR. YOGESHKUMAR JETHABHAI PATEL 9)Dr A Chandrasekar 10)Dr. Brijesh Sathian Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Bhuvaneshwari P Address of Applicant :Assistant Professor MVJ college of engineering, Bangalore , 302B srivari gardens, AB Vajpayee road, kadugodi, Whitefield, Bangalore-560067 -----</p> <p>--</p> <p>2)Prof.(Dr.) Vinay Kumar Nassa Address of Applicant :Professor, Department of Computer Science & Engineering, Sharad Institute of Technology College of Engineering (An Autonomous Institute) Ichalkaranji(Kolhapur) Maharashtra(India) -----</p> <p>3)Dr. Harveen Kaur Address of Applicant :Assistant Professor Chitkara University Institute of Engineering and Technology, Chitkara University, A 90 Omaxe City, Patiala, Punjab -----</p> <p>4)Dr. Sudhansu Kumar Samal Address of Applicant :Associate Professor Centurion University of Technology and Management, Ramachandra puri, Jatni, Khurda, 752050 Odisha, India -----</p> <p>5)Dr. G. RAMASUBBA REDDY Address of Applicant :PROFESSOR SAI RAJESWARI INSTITUTE OF TECHNOLOGY, LINGAPURAM,PRODDATUR 516360,ANDHRA PRADESH INDIA -----</p> <p>6)Dr. Kanika Address of Applicant :Assistant Professor SRM IST NCR Campus, Modinagar, Ghaziabad-201204, Uttar Pradesh, India -----</p> <p>7)Dr S Jothi Address of Applicant :Associate professor Department of CSE- St. Joseph's college of engineering, OMR, Chennai,600119,Tamilnadu India -----</p> <p>8)MR. YOGESHKUMAR JETHABHAI PATEL Address of Applicant :ASSISTANT PROFESSOR SHRI C.J. PATEL COLLEGE OF COMPUTER STUDIES AFFILIATION TO SANKALCHAND PATEL UNIVERSITY ,VISNAGAR MEHSANA,GUJARAT,INDIA -----</p> <p>9)Dr A Chandrasekar Address of Applicant :Professor & Head Department of CSE- St. Joseph's college of engineering, OMR, Chennai, 600119,Tamilnadu India -----</p> <p>10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar -----</p>
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(57) Abstract :

IoT based Data leakage prevention system for organizations and individuals Abstract: Data has become an important part of our daily lives in an age when we have so much information. Because of new technology, the amount of data produced is increasing at an exponential rate. Because so much data is generated every day, a new term known as big data has emerged. As a result, when it comes to protecting big data processes, security is critical. Many businesses and other organisations place a high value on the ability to prevent private information from falling into the hands of the wrong people. If the wrong people get their hands on these vital documents, the consequences could be disastrous. When competitors learn about trade secrets, project documents, and customer profiles, they frequently obtain them. Firewalls, virtual private networks, intrusion detection systems, and other traditional security measures cannot adequately protect this type of data. Because of this gap in data protection, data leakage prevention systems have been implemented. They are intended to address this issue. In the last few years, there has been a lot of research done on how to keep your data safe from theft. Researchers are now focusing on how to prevent data leaks rather than how to detect them. According to the abstract, this thesis proposes a hybrid symmetric-asymmetric encryption scheme to protect data as part of the DLPS prevention strategy. The only people who can see a company's private or sensitive documents are those who have the keys to decrypt them. Because of this, the proposed encryption method ensures that all documents are encrypted. The IT artifact in this thesis was created using DSRM and CRISPDm, which stands for CRoss Industry Standard Process for Data Mining (method). This can be done after the Nave Bayes Classifier has classified the documents as confidential or non-confidential (NBC). As a result, the proposed hybrid encryption method can be used by any company that needs to keep data safe before it is released.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : Wireless Sensor Network for Long- term Environmental Checking for Internet of Things Application

(51) International classification :H04W0084180000, H04L0029080000, H04W0004700000, H04W0004380000, G06F0030000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Wireless Sensor Network for Long- term Environmental Checking for Internet of Things Application Abstract: Sensor networks, both wired and wireless, have been critical components of the Internet of Things (IoT) since its inception more than a decade ago. They are low-cost systems that can be used to build dense and cost-effective monitoring systems in this case. All of these things are visible in the Internet of Things via the Internet Protocol (IP). This means that the Internet Protocol can see everything. One of the main reasons we're excited about this is that it provides us with immediate information about any thing. WSNs can be used to collect environmental information for IoT. A full WSN platform can benefit a variety of IoT applications, including long-term weather monitoring. This paper describes how to construct a complete WSN platform from start to finish. When designing the platform and its components, users must consider factors. Many monitoring apps consider low-effort platform reuse from the specifications all the way through the design process.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : Power Consumption Reduction in IoT Sensor Devices through FPGA and Nano Bridge Switch

(51) International classification :H03K0019177360, G06F0015780000, G11C0005000000, G06F0030340000, C04B0028020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Power Consumption Reduction in IoT Sensor Devices through FPGA and Nano Bridge Switch Abstract: Over the last few years, the FPGA, a type of computer similar to a microcontroller, has made significant progress in the IoT. In this market, nanobridge-FPGA, can improve performance while saving power in Internet of Things devices, is becoming more popular. This field-programmable gateway array's switch for moving metal atoms is extremely durable and can withstand high temperatures and radiation. It saves a significant amount of electricity. FPGA has already demonstrated that it is more efficient than the CPU. As a result, the company can achieve greater power efficiency and faster processing speed while remaining highly resistant to radiation and high temperatures. Because they consume less power and run faster, NanoBridge-based FPGAs can be used in a wide range of applications. You can switch hardware (circuit configuration) faster and use less power when you use an FPGA. It is a collection of IC that make use of semiconductor switches and memory modules. NanoBridge FPGA replaces space-consuming systems. This paper discusses how the NanoBridge-FPGA works, its internal structure, and how it compares to commercially available FPGAs.

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : IoT & Radio Frequency Identification technique Based Personal Healthcare

(51) International classification :H04L0029080000, G06Q0050220000, G08B0025010000, H04W0004380000, G06K0007000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India -----

(57) Abstract :

IoT & Radio Frequency Identification technique Based Personal Healthcare Abstract: The IoT paradigm, which includes sensors (environmental, wearable, and implanted) strategically placed in people's homes, has the potential to accelerate the transition from traditional medicine to participatory medicine by allowing remote assistance when needed. Sensors for low-cost, energy-efficient, and disposable RFID tags are now available for use in the development for personal healthcare. These sensors are now ready for use in intelligent environments. This survey highlights the most recent advancements in RFID technology that can be used in body-centered systems and to obtain information about environment (such as temperature and humidity) (RFID). Finally, we'll discuss some of the field's unanswered questions as well as new research ideas.

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : AUTOMATIC SPICE AND OIL DISPENSER

<p>(51) International classification :A47J0047010000, B65D0083060000, A47J0047040000, G05B0019040000, A23L0027100000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. M. Vetrivel Sezhan Address of Applicant :Professor & Head, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089. Ph: 9786688932 E-Mail: vetrivelsezhan.m@eec.srmrmp.edu.in -----</p> <p>2)Mr. K. Karthik 3)Mr. K. Giridharan 4)Dr. M. Naresh babu 5)Dr. S. Prasannaraj Yadav 6)Mr. G. Chakravarthi 7)Mr. K. Karthikeyan Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Vetrivel Sezhan Address of Applicant :Professor & Head, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai- 600089. Ph: 9786688932 E-Mail: vetrivelsezhan.m@eec.srmrmp.edu.in -----</p> <p>2)Mr. K. Karthik Address of Applicant :IV-year Student, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai- 600089. E-Mail: karthik452k@gmail.com -----</p> <p>3)Mr. K. Giridharan Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089. Ph: 8072877389 E-Mail:giridharan.k@eec.srmrmp.edu.in -----</p> <p>4)Dr. M. Naresh babu Address of Applicant :Associate Professor, Department of Mechanical Engineering Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089. Ph: 9840322154 E-Mail: Nareshbabu.m@eec.srmrmp.edu.in -----</p> <p>5)Dr. S. Prasannaraj Yadav Address of Applicant :Associate Professor, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089 Ph: 9786190834 E-Mail:PrasannarajYadav.s@eec.srmrmp.edu.in -----</p> <p>6)Mr. G. Chakravarthi Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089. Ph: 9710547502 E-Mail: chakravarthi.g@eec.srmrmp.edu.in -----</p> <p>7)Mr. K. Karthikeyan Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089. Ph: 9952490277 E-Mail: karthikeyan. k@eec.srmrmp.edu.in -----</p>
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(57) Abstract :

Nowadays, the trend of dining out is becoming more popular due to lack time to cook food and liking of tastiest food at the restaurant. Cooking is emotional and highly skilled activity, which cannot be dispensed by mankind. Quantitatively assessing the right number of spices is always a challenge while preparing the dish. This automatic machine helps in providing right quantity of spice. This saves time and reduces wastage of spices. The aim of the invention is to design an efficient automatic Spice and Oil Dispenser. This invention comprises of the Canisters with Screw Conveyor, DC Motor, Hydraulic pump, control circuit, Ultrasonic sensor, HDPE bottle, power adapter, Stainless-Steel Sheet metal box with base and cover. The base box is the base unit to hold the both canister and bottles. It has minimum of three compartments. The canisters are placed in the first two compartments and the bottle is placed at the third compartment of the base plate. The dispenser vent and the Ultrasonic sensor are fixed at the bottom of the canisters. The DC motor is connected with the canister and the hydraulic pump is interconnected with the HDPE bottle to dispense the spices and oil respectively. Screw conveyor is a horizontal screw conveyor and the one end of the screw conveyor is coupled to a DC motor. The other end is directed through a nozzle which helps in swift discharge of the contents. The Ultrasonic sensor is sensing the presence of a spoon or cup when kept in front of the nozzle and sends signal to the control circuit. The control circuit is an off-delay control circuit programmable PCB used for driving the motor for a programmed time on receipt of signal from the sensors. The sensors will calculate the right amount of spice and dispense it. This will eliminate the whole conventional process of opening the jar, and approximately measuring the spice using a measuring spoon, making the process less time consuming and making the cooking experience a user-friendly one. Hence the present invention helps in delivering the right quantity of spices and oil and thus enhance the taste of foods.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061326 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MACHINE LEARNING BASED PATIENTS' ILLNESS PREDICTION AND AUTOMATIC DOCTOR APPOINTMENT ALERT

<p>(51) International classification :G06Q0050220000, G06N0020000000, G06Q0050000000, G16H0050700000, G16H0040200000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Swarajya Lakshmi V Papineni Address of Applicant :Professor, Department of Information Technology, Prasad V Potluri Siddhartha Institute of Technology, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh – 520007. -----</p> <p>2)Mr. S. Rajesh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Swarajya Lakshmi V Papineni Address of Applicant :Professor, Department of Information Technology, Prasad V Potluri Siddhartha Institute of Technology, Chalasani Nagar, Kanuru, Vijayawada, Andhra Pradesh – 520007. -----</p> <p>2)Mr. S. Madhankumar Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniathur, Coimbatore – 641008. -----</p> <p>3)Dr. S. Oswalt Manoj Address of Applicant :Assistant professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Kuniathur, Coimbatore – 641008. -----</p> <p>4)Mr. S. Rajesh Address of Applicant :Assistant Professor, Department of Mechanical Engineering, R.M.K. Engineering College, Kavaraipettai – 601206. -----</p> <p>5)Dr. B H V S Ramakrishnam Raju Address of Applicant :Professor and Head, Department of Information Technology, SRKR Engineering College, Bhimavaram, Andhra Pradesh - 534204. -----</p> <p>6)Mr. R. Balamurugan Address of Applicant :Assistant Professor, Department of Automobile Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401. -----</p> <p>7)Mr. M. Arvind Address of Applicant :UG Scholar, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniathur, Coimbatore – 641008. -----</p> <p>8)Mr. B. Barath Address of Applicant :UG Scholar, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniathur, Coimbatore – 641008. -----</p>
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(57) Abstract :

Healthcare organizations and their associated departments are critical for thriving metropolitan regions and social groups. The best utilization of health resources saves money and time, but most significantly, it improves health. It has been much more obvious in recent years as the epidemic has overextended available therapeutic resources. The relaxed temperament of skipping medical preparations (flake-out-ups) may cause substantial injury to a child's wellness if not specified in client arrangement preparation. In this invention, employ machine learning to analyze various arranging data in order to predict a patient's practices/qualities by using various AI computations. As a result, weal ready excluded major restrictions from raw data using informational cleaning. To alter our data, we used the Adasyn sampling method. After leveling, used the SVM machine-learning method. A scholarly anticipation architecture that anticipates a disease based on information or adverse reactions placed into the frameworks and provides accurate findings. In contrary to the typical tactic, this invention suggests a more reasonable approach to resolving the mundane concerns of scheduling a meeting with experts. The investigation reveals that, instead of separate aspects, combining numerous provisions aids in improving projections of a physician's schedule status.

No. of Pages : 7 No. of Claims : 2

(54) Title of the invention : DC-DC CONVERTER UNIT FOR POWER REGULATION AND CHARGING OF BATTERIES IN ELECTRIC VEHICLE

<p>(51) International classification :H02J0007000000, H02M0003156000, B60L0050500000, H02S0040380000, H02J0007220000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College (Autonomous) Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR N RAJESWARAN Address of Applicant :Professor,Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>2)DR P MARIMUTHU Address of Applicant :Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>3)DR T RAJESH Address of Applicant :Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>4)DR M KONDALU Address of Applicant :Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>5)DR KOTA PRASAD RAO Address of Applicant :Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>6)DR P SARALA Address of Applicant :Associate Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>7)E RATHNAKAR Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p> <p>8)SK BAJI BABA Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- -----</p>
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(57) Abstract :

7. ABSTRACT A dc-dc converter power regulation and charging of a battery in an electric vehicle is disclosed wherein the system(10) comprises of, a 230v main supply(1), a transformer circuit(3), a bridge full wave rectifier circuit(4), a capacitor(8), an IC 7805 voltage regulator(6), a resistor(7) and a led arrangement(9) furthermore a filter circuit (5), a set of comparators(2) and timer circuits were also preinstalled inside the said system(10). The said filters (5) are electronic circuits, which perform signal-processing functions, specifically to remove unwanted frequency components from the signal and to enhance wanted ones. The said system (10) allows a high initial charge current that tapers off until the said battery reaches full charge and the said system (10) uses a constant current, allowing the voltage to rise until the said battery voltage reaches a full charge. Wherein the said system (10) when the charge current is then turned off to prevent overcharging. The Figure associated with the Abstract is Fig 1A and 1B.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061408 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SMART RF MODULES AND DRONE RECEIVER FOR IDENTIFICATION OF HUMANS AND PET ANIMALS UNDER RUBBLES IN DEVASTED AREA

(51) International classification :G01S0005020000, G08B0021020000, B64C0039020000, G01S0013880000, G01S0003140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A life detection system is developed for the search and rescue of victims trapped under the rubble of collapsed building during the earthquake or other disasters. Comparing with the existing systems, the proposed life detection system has a small ball like RF sensor module for emitting the RF signal and a RF scan module. The low cost RF module will be carried by the human including school going children in their bags or in watch and neck belt of pet animals. The module senses the heartbeat, Temperature and the activity of human beings/ Animal trapped inside the rubbles and emits the RF signal in long or short rang depending on the criticalness of the victim under the rubbles. The rescuer uses a Scan module which is a programmed drone and has a directive antenna. The drone with directivity antenna starts receiving the RF signal at different points that are programmed. When RF signal is received, then the processor in drone calculates the distance between programmed stop point and the RF emitting point with angle of arrival. Then drone moves for next scan point. The rescuer identifies the RF emitting point with respect to programmed stop point and starts rescuing the victim. Also, When the RF sensor module is built with Bluetooth, ZigBee, Wi-Fi, GSM and GPRS, then there is possibility of establishing automatic connectivity with other nodes nearby through their respective protocol.

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061429 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM FOR TRACKING EYE GAZE OF A PERSON

(51) International classification :G06F0003010000, A61B0003113000, B60W0040080000, G06K0009000000, G01S0013910000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT A SYSTEM FOR TRACKING EYE GAZE OF A PERSON The present disclosure envisages a system (100) for tracking eye gaze of a person. The system (100) comprises a database (102), a display unit (104), a processor (106), an eye tracker (108), and a signal conditioning unit (110). The database (102) is configured to store a data regarding predetermined threshold values corresponding to pattern of movement of the eyes of a healthy person, and a set of instructions to run a routine for displaying a series of objects to move in a predetermined path. The eye tracker (108) is configured to detect the movement pattern of the eyes of the person to generate eye gaze behavior pattern signals. The signal conditioning unit (110) is configured to convert the eye gaze behavior pattern signals into values. The processor (106) is configured to cooperate with the database (102) and signal conditioning unit (110) to compare the detected values with the predetermined threshold values and determine duration of attentive focus made by the eyes of the person.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : QUALITY AND ENTREPRENEURSHIP MODEL TO ENHANCE THE AFFECTING FACTORS OF HUMAN PRODUCTIVITY

<p>(51) International classification :G06Q0010060000, G06Q0030020000, G06Q0010100000, G06Q0010040000, G06F0016245800</p> <p>(86) International Application No Filing Date :PCT// / 01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Kokila Saxena Address of Applicant :Dr. Kokila Saxena, Assistant Professor, Department of Management Studies, JSS Academy of Technical Education, C20/1, Sector-62, Noida 201301, Uttar Pradesh, kok.asthana@gmail.com , 9868633384 -----</p> <p>2)Dr.Ruchi Mehrotra Joshi</p> <p>3)Dr Dezy Kumari</p> <p>4)Dr. Aanchal Singhal</p> <p>5)Mr.Kannadasan B</p> <p>6)Dr. Neha Vashistha</p> <p>7)Mr Aashish Dhiman</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Kokila Saxena Address of Applicant :Dr. Kokila Saxena, Assistant Professor, Department of Management Studies, JSS Academy of Technical Education, C20/1, Sector-62, Noida 201301, Uttar Pradesh, kok.asthana@gmail.com , 9868633384 -----</p> <p>2)Dr.Ruchi Mehrotra Joshi Address of Applicant :Dr.Ruchi Mehrotra Joshi, Associate Professor, University of Petroleum and Energy Studies, Dehradun-248007, Uttarakhand India -----</p> <p>3)Dr Dezy Kumari Address of Applicant :Dr Dezy Kumari, Post Doctoral Fellow, IEG, University Enclave, Delhi-110007 -----</p> <p>4)Dr. Aanchal Singhal Address of Applicant :Dr. Aanchal Singhal, Assistant Professor, Department of Management Studies, JSS Academy of Technical Education, C-20/1, Sector-62, Noida. Uttar Pradesh -----</p> <p>5)Mr.Kannadasan B Address of Applicant :Mr.Kannadasan B, Assistant Professor, Civil Engineering, B.S.Abdur Rahman Crescent Institute of Science and Technology, GST Road, Vandalur Chennai - 600048 -----</p> <p>6)Dr. Neha Vashistha Address of Applicant :Dr. Neha Vashistha , Assistant Professor, NICE School of Business Studies , Shobhit Institute of Engineering & Technology (Deemed to be University), Meerut , NH-58 Bypass Road Partapur, Meerut, Uttar Pradesh-250001 -----</p> <p>7)Mr Aashish Dhiman Address of Applicant :Mr Aashish Dhiman, Research Associate, NICE School of Business Studies , Shobhit Institute of Engineering & Technology (Deemed to be University), Meerut , NH-58 Bypass Road Partapur, Meerut,Uttar Pradesh-250001 -----</p>
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(57) Abstract :

The goal of this research was that uncover its most successful measures of personal resources production towards corporate greatness, having a particular focus upon integrity as well as creativity. It's some combination of investigation but also surveys. These managing professionals with Iranian enterprises' personnel serve as professional statistics demographics when calculating quantitative metrics. Integrative equations modeling but instead, qualitative component analyses were used for evaluating the information.The RFQ System but also the enterprise has a very considerable influence upon workforce efficiency administration, according to given survey results. Furthermore addition, enterprises have constantly grown yet important impact upon the RFQ System. For that result, companies may make another move forward operational greatness through enhancing fundamental metrics that impact personnel capacity performance including stressing integrity with creativity.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : CARDIOVASCULAR NOISE DETECTION AND ANALYSIS USING COMPUTATIONAL TOOL

<p>(51) International classification :A61B0007040000, G06K0009620000, A61B0008020000, A61B0007000000, F24F0013240000</p> <p>(86) International Application No Filing Date :PCT// /:01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Sanamdikar Sanjay Tanaji Address of Applicant :Dr. Sanamdikar Sanjay Tanaji, Associate Professor, Department of Instrumentation Engineering, PDEAs College of Engineering Manjari Pune-412307, Maharashtra, 9421055188 sanjay.coem@gmail.com -----</p> <p>2)Ms. Adeline Sneha J 3)Dr. P.Dhivya 4)Ms.Ambati Srilatha Reddy 5)Dr.G.Murugesan 6)Mr.Kumar Pratyush 7)Dr. Jyothi N M Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sanamdikar Sanjay Tanaji Address of Applicant :Dr. Sanamdikar Sanjay Tanaji, Associate Professor, Department of Instrumentation Engineering, PDEAs College of Engineering Manjari Pune-412307, Maharashtra, 9421055188 sanjay.coem@gmail.com -----</p> <p>2)Ms. Adeline Sneha J Address of Applicant :Ms. Adeline Sneha J, Chief Research Director , Department of Research, I-Tech Farming Solution (M) SDN BHD, F-3-6,loi Boulevard, Jalan Kenari 5, Bandar Puchong Jaya, 47170 Puchong, Selangor, Malaysia -----</p> <p>3)Dr. P.Dhivya Address of Applicant :Dr. P.Dhivya, Assistant Professor, Department of Chemistry, Nirmala College for Women, Coimbatore 641018, Tamil Nadu -----</p> <p>4)Ms.Ambati Srilatha Reddy Address of Applicant :Ms.Ambati Srilatha Reddy, Assistant Professor (Biomedical Engineering), Department of Biomedical Engineering, B V Raju Institute of Technology Narsapur-502313, Telangana -----</p> <p>5)Dr.G.Murugesan Address of Applicant :Dr.G.Murugesan,Professor, Department of Computer Science and Engineering, St. Joseph's College of Engineering, Chennai-600119 ---</p> <p>6)Mr.Kumar Pratyush Address of Applicant :Mr.Kumar Pratyush, SVKM's Institute of Pharmacy, Survey No. 499, Plot No- 03, Mumbai - Agra National Hwy, behind Gurudwara, Maharashtra -----</p> <p>7)Dr. Jyothi N M Address of Applicant :Dr. Jyothi N M, Associate Professor, Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur District , Andra Pradesh-522502 -----</p>
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(57) Abstract :

Traditionally, several doctors utilized a handbook technique that establish heart sound characteristics, which involved physically generating heart sound signal waveforms upon then tracing the length of the heart sound variables. This study offers a redesigned paradigm that computerized heart sound signal separation and variable extraction for use in machine learning thoracentesis, which is geared around contemporary clinical imaging technology. PASCAL proposes an accordion technique incorporating references information depends upon sudden shifts as well as a maximum classification model. Dataset for Characterizing Heart Rate. It must be emphasized that perhaps the efficiency and Fp rate of the classification stage got calculated, whilst variance of the EGC signals characteristics are computed. Their results show that the suggested technique for classification & categorization of a healthy cardiopulmonary system has an F1-score of 95.29 percent as well as an efficiency of 91.0 percent, correspondingly. The initial noise, S1 period, the secondary noise, S2 timeframe, cardiac period, ventricular systole length of time, ventricular contraction length of time, or the proportion of systolic and diastolic have all been measured. That suggested method may be used to evaluate 2 significant heart audible patterns maxima, S1, and S2, that also vary significantly between specimens owing to various sphygmomanometer locations

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : A Novel approach of Face mask Detection with Artificial Intelligence in pandemic situations

<p>(51) International classification :G06N0003040000, G06N0003080000, G06N0005040000, G06N0005000000, G16H0050800000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)S ARUN Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI ----- 2)Dr.Tapalina Bhattasali,St. Xavier's College 3)Ms.Ayasha Malik,Noida Institute of Engineering and Technology 4)Ms.Harsha Gupta,Noida Institute of Engineering and Technology 5)Dr.Rishi kumar,Guru Nanak College 6)Dr.Sandeep ,Rajiv Gandhi University 7)Mr.Ashish Sharma,Govt. Polytechnic Mahoba 8)Mr.Deepak Singh 9)Ms.Kajal Mahawar,A.P Narmada College 10)Dr Ashish Kumar Tamrakar,Bhilai Institute of Technology 11)Dr.Vineet Kumar Singh,Institute of Engineering And Technology Dr Rammanohar Lohia Avadh University Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Tapalina Bhattasali,St. Xavier's College Address of Applicant :Assistant Professor & HOD,IT , St. Xavier's College(Autonomous) 30, mother Teresa Sarani Kolkata, West Bengal India 700016 ----- 2)Ms.Ayasha Malik,Noida Institute of Engineering and Technology Address of Applicant :Noida Institute of Engineering and Technology 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh India 201306 ----- 3)Ms.Harsha Gupta,Noida Institute of Engineering and Technology Address of Applicant :Noida Institute of Engineering and Technology 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh India 201306 ----- 4)Dr.Rishi kumar,Guru Nanak College Address of Applicant :Assistant Professor(Physics) and Head Post Graduation Department of Physics Guru Nanak College, Budhlada Punjab INDIA - 151502 ----- 5)Dr.Sandeep ,Rajiv Gandhi University Address of Applicant :Assistant Professor Dept. of Psychology,Rajiv Gandhi University (A Central University) Doimukh Arunachal Pradesh INDIA 791112 ----- 6)Mr.Ashish Sharma,Govt. Polytechnic Mahoba Address of Applicant :Lecturer Govt. Polytechnic Mahoba Mahoba Uttar pradesh India 210427 ----- 7)Mr.Deepak Singh Address of Applicant :CYIENT Limited Embedded Engineer katni Karnataka India 483501 --- ----- 8)Ms.Kajal Mahawar,A.P Narmada College Address of Applicant :Assistant Professor in Computer Application ,A.P Narmada College Modiwada , Jabalpur Madhya Pradesh India 482003 ----- 9)Dr Ashish Kumar Tamrakar,Bhilai Institute of Technology Address of Applicant :Assistant Professor , Bhilai Institute of Technology, Raipur (BIT Raipur) Railway Station, Raipur - Abhanpur Rd, Raipur, Chhattisgarh India 493661 ----- ----- 10)Dr.Vineet Kumar Singh,Institute of Engineering And Technology Dr Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor,Dept of IT Institute of Engineering And Technology Dr Rammanohar Lohia Avadh University Ayodhya Uttarpradesh India 224001 ----- -----</p>
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(57) Abstract :
The global pandemic of the corona virus is precluded by the recommendations of the World Health Organization (WHO), so wearing a face mask in the workplace has been declared to be the only effective way to avoid getting infected. The pandemic made governments across the world to stay under Lock downs to prevent from virus transmissions. Reports show that wearing facemasks would clearly reduce the risk of transmission. With the rise in population in cities, there is a greater need for efficient city management in today's world for reducing the impact of Corona disease. For Smart Cities to prosper, major improvements to occur in public transportation, roads, businesses, houses, and the city streets, as well as other facets of city life will have to be developed. The current public bus transportation system, such as it is, should be expanded with Artificial Intelligence. The autonomous mask detection and alert system is needed to find whether the person is wearing face mask or not. This system has almost complete face-identification capabilities with respect to people's presence in the case where they are wearing masks, with an error rate of only 1.1 %. A transformation of CNN's classifiers has better efficiency over the DNN's classifier algorithm. We are also added the face-recognition security system as well, which would allow the person to enter the building only if they were wearing a face mask Deep learning and modern machine learning concepts workhorse concepts enable the artificial intelligence to achieve the greatest accuracy possible.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061530 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : An Unique Methodology for Solving the Issues in the Textile Industry

(51) International classification :D01D0005000000, B82Y0030000000, D06M0016000000, D06M0014180000, D06M0015564000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA :NA

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(57) Abstract :

Humans have been using natural fibres and textiles since the beginning of time. Our forefathers utilised fur and animal skin to protect themselves from the weather, but they quickly began to manufacture primitive clothing out of vegetable fibres. Fabric processing has grown more accessible and economical since the introduction of machines. As a result of the industrial revolution, textile manufacture became a real industry. There is a recent invention in the textile field that may bring novel capabilities and functionality to materials as a result of the development of new technologies. We use electro-spinning in this innovation to use nanoparticles as synthetic fibres in the textile industry, which may be used to address issues such as microbial fibre creation, ultraviolet radiation robustness, and so on. In addition, the method by which nanoparticles are implanted in ultra-thin fibres is examined.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : Thermal imaging for snake detection -Living Things Detection Using Thermal Imaging in Agricultural Field

<p>(51) International classification :G08C0017020000, G06Q0010060000, H04W0004020000, G06Q0050020000, H02K0007180000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SRM Institute of Science and Technology Address of Applicant :SRM Institute of Science & Technology, Ramapuram Campus, Chennai-600089, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. MAHESH KUMAR N Address of Applicant :Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus, Chennai-600089 -----</p> <p>2)Dr. R. Arthi Address of Applicant :Associate Professor, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-600089 -----</p> <p>3)Mr. VINOTHKUMAR G Address of Applicant :Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus, Chennai – 600089 -----</p> <p>4)Mr. M Janarthanan Address of Applicant :Assistant Professor (Sr. G), SRM Institute of Science and Technology, Ramapuram Campus, Chennai – 600089 -----</p> <p>5)Mr. C. ARAVINDAN Address of Applicant :Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus, Chennai – 600089 -----</p> <p>6)Dr. Manoj Kumar Address of Applicant :Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus, Chennai – 600089 -----</p> <p>7)Dr. M. Vidhya Lakshmi Address of Applicant :Assistant Professor, SRM Institute of science and Technology, Ramapuram, Chennai – 600089 -----</p> <p>8)Ms. SRISABARIMANI K Address of Applicant :Assistant Professor, SRM Institute of science and Technology, Ramapuram, Chennai – 600089 -----</p> <p>9)Dr. G. RAMYA Address of Applicant :Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus, Chennai – 600089 -----</p> <p>10)Mrs. T. RAMYA Address of Applicant :Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus, Chennai – 600089 -----</p>
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(57) Abstract :

ABSTRACT Our Invention Thermal imaging for snake detection -Living Things Detection Using Thermal Imaging in Agricultural Field Snake bite is considered as a medical emergency and occupational hazard in South Asia, South East Asia and African countries. The people who are primarily affected by snake bite are poor agricultural workers and farmers working in rural areas of developing countries mostly in the night & evening time. People who are working in forest areas as well as people residing nearby dense forest also face the same issue. The proposed design aims to provide a solution to this problem. A thermal image sensor is used to capture the living things thermal image and it will be displayed in a LCD screen which is controlled by processing unit. In the LCD Screen user will be able to differentiate living things image with nonliving things image with the help of image colour.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061532 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Regression System: Regression Analysis Approach for Mathematical Model Development in Dynamic System

(51) International classification :G06Q0010060000, G16H0030200000, G06F0017180000, G05B0017020000, G16B0030000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT Our invention Regression System: Regression Analysis Approach for Mathematical Model Development in Dynamic System is a proposed an approach using multiple regression analysis to develop a complex mathematical model that represents a dynamic manufacturing system. The Simulation data are specifically analyzed using this multiple regression analysis approach to obtain a data unique pattern. This approach reduces the gap between theory and real-time data of the system. To evaluate the effectiveness of the mathematical mode, simulation model was first validated using real-time data. The applicability of the proposed mathematical model was evaluated by testing with real-time data. The outcome positively demonstrated that the develop mathematical model based on multiple regression analysis approach can be used to make predictions in the dynamic manufacturing environment with an acceptable error percentage range. The mathematical development in this field will enhance the future establishment of a decision-making model using a spreadsheet in the management field.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061535 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DEFECT DETECTION OF A CELL IN AN ELECTRIC VEHICLE BATTERY

(51) International classification :G06T0007000000, G11C0029000000, B60K0001040000, G06K0009000000, G06T0007130000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (100) for defect detection of cell in electric vehicle battery is disclosed. An image capturing module (110) receives a captured image of heat waves emitted by one or more cells of the electric vehicle battery. An image processing module (120) filters and extracts a coloured pattern of the captured image of the heat waves emitted by the one or more cells. An image analysis module (130) utilizes a trained deep learning model to map the region of interest identified in the extracted coloured pattern of the image with a prestored grid layer of battery pack image, detects one or more defective cells in the electric vehicle battery, identifies a position of the one or more defective cells within the electric vehicle battery. A battery health prediction module (140) predicts an operable range of temperature of the one or more defective cells. A battery health notification module (150) notifies the one or more defective cells and the operable range of temperature of the one or more defective cells. FIG.1

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061538 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING DIGITAL ADVERTISEMENTS TO AN ELECTRIC VEHICLE CHARGING STATION

(51) International classification :G06Q0030020000, G06Q0050300000, B60L0053300000, G06Q0010100000, G01R0029080000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (100) for providing digital advertisements to an electric vehicle charging station is disclosed. A user details receiving module (110) receives one or more advertisement details from a registered user. An advertisement data collection module (120) receives advertisement data corresponding to a user identity of the registered user, fetches the advertisement data stored in an advertisement database for publication of the advertisement data. An advertisement publishing module (130) identifies availability of charging station within an area of interest of the registered user, enables the registered user to select atleast one option for publishing the advertisement data fetched on a display interface in the electronic vehicle charging station, enables display of the advertisement data on a predefined area of the display interface. An advertisement feedback generation module (140) enables the registered user to provide feedback corresponding to the advertisement data. An advertisement diagnosis module (150) diagnoses one or more errors encountered in an event of publishing the advertisement data. FIG. 1

No. of Pages : 34 No. of Claims : 15

(54) Title of the invention : IOT based contraption observation and Electrical control Structure

<p>(51) International classification :H04W0012060000, H04W0084120000, G06N0020000000, H04W0004700000, G06Q0010100000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr C Gnana Kousalya Address of Applicant :Professor, St.Joseph's Institute of Technology,OMR,Chennai Pin:600119 State: Tamilnadu Country: India ----- ----- 2)Dr G Rohini 3)Ms. Nirmal Kaur 4)Mr. Y. M. Mahaboobjohn 5)Mr. G.Sivakumar 6)Mr. TALARI.MANO HAR 7)Ms.V. Divya 8)Mr.Raja Raju 9)Dr. Arun Kumar Pallathadka 10)Dr. Harikumar Pallathadka Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr C Gnana Kousalya Address of Applicant :Professor, St.Joseph's Institute of Technology,OMR,Chennai Pin:600119 State: Tamilnadu Country: India ----- ----- 2)Dr G Rohini Address of Applicant :Professor, St.Joseph's Institute of Technology,OMR,Chennai Pin:600119 State: Tamilnadu Country: India ----- ----- 3)Ms. Nirmal Kaur Address of Applicant :Assistant Professor, Sant Baba Bhag Singh University, Khiala Jalandhar(Punjab) Pin:144030 State : Punjab Country: India ----- ----- 4)Mr. Y. M. Mahaboobjohn Address of Applicant :Assistant Professor, Mahendra College Of Engineering, Minnampalli, Salem Pin: 636106 State: Tamilnadu Country: India ----- ----- 5)Mr. G.Sivakumar Address of Applicant :Assistant Professor, GOJAN School of Business and Technology, 80 Feet Road, Edapalayam, Redhills, Chennai. Pin: 600 052. State: Tamil Nadu Country: INDIA ----- ----- 6)Mr. TALARI.MANO HAR Address of Applicant :ASSISTANT PROFESSOR, ANANTHA LAKSHMI INSTITUTE OF TECHNOLOGY AND SCIENCES ITIKALAPALLI NEAR S.K.UNIVERSITY ANANTHAPURAMU Pin:515721 State: ANDHRA PRADESH Country: INDIA ----- ----- 7)Ms.V. Divya Address of Applicant :Assistant Professor, EEE Department CVR College of Engineering, Mangalpally, Ibrahimpatan, Ranga Reddy, Telangana - 501510. Pin: 501510 State: Telangana Country: India ----- ----- 8)Mr.Raja Raju Address of Applicant :Assistant Lecturer, St.Joseph University in Tanzania, P.O.Box: 11007. Country: Tanzania ----- ----- 9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West. Pin: 795140 State: Manipur Country: India ----- ----- 10)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140 State: Manipur Country: India -----</p>
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(57) Abstract :
IOT based contraption observation and Electrical control Structure Abstract: The Internet of Things (IoT) is constantly changing the rate at which and how much information it sends. This implies that there are always new ways to generate new ideas. This paper discusses the importance of maintaining control and monitoring of an IoT-enabled energy-saving electrical device. Lighting machines, which consume a lot of valuable resources, need to be able to do more and detect problems in real time. This is a huge undertaking in and of itself. This work employs modelling techniques based on their likelihood of success. IEEE 802.11 is a Wi-Fi network structure that connects all mechanical parts in a small or restricted area. People who use a networked strategy can help slow disease spread.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : Deep learning based automatic eye cataract detection algorithm using MATLAB

(51) International classification :G06T0007000000, A61B0003120000, G06T0007410000, G06T0007440000, A61B0003140000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Deep learning based automatic eye cataract detection algorithm using MATLAB Abstract: This method tests an algorithm for spontaneously detecting cataracts in adult humans using colour images taken from various angles. Because fundus cameras and Digital Single-Lens Reflex (DSLR) cameras are currently the only ways to detect cataracts, they are prohibitively expensive. As a result of this research, we hope to create a cheap, reliable, and simple-to-use algorithm that can tell if someone has cataracts by looking at true colour images of their eyes. There is a method for screening for cataracts based on texture, and it takes three texture characteristics into account: uniformity, intensity, and standard deviation. The expert first determines the threshold through calculations and mapping with diagnostic opinions. The system is then put through its paces on real people in an eye clinic.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : Internet of Things Based Wearable intelligent device for Next Generation- Healthcare Sector

<p>(51) International classification :G06N002000000, A61B0005000000, H04B0001382700, H04L0029080000, G16H0050200000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. M B ANANDARAJU Address of Applicant :Professor, Department of Electronics and Communication Engineering BGS Institute of Technology Adichunchanagiri University B.G.Nagara, Nagamangala Taluk, Mandya District-571448 Karnataka, India. -----</p> <p>2)Dr. Dattatreya Prabhakar Mankame 3)Mr. Y. M. Mahaboobjohn 4)Mr.MOHANKUMAR K S 5)Mr. Manu Y M 6)Ms.Priya Geete 7)Dr. Prashant Geete 8)Mr.Raja Raju 9)Dr. Arun Kumar Pallathadka 10)Dr. Harikumar Pallathadka Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M B ANANDARAJU Address of Applicant :Professor, Department of Electronics and Communication Engineering BGS Institute of Technology Adichunchanagiri University B.G.Nagara, Nagamangala Taluk, Mandya District-571448 Karnataka, India. -----</p> <p>2)Dr. Dattatreya Prabhakar Mankame Address of Applicant :Professor, Computer Science and Engineering, Atria Institute of Technology, Adjacent Bangalore Baptist Hospital, Hebbal, Bengaluru-560024 Karnataka , India. -----</p> <p>3)Mr. Y. M. Mahaboobjohn Address of Applicant :Assistant Professor, Mahendra College Of Engineering, Minnampalli, Salem 636106, Tamilnadu, India -----</p> <p>4)Mr.MOHANKUMAR K S Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering BGS Institute of Technology Adichunchanagiri University B.G.Nagara, Nagamangala Taluk, Mandya District-571448, Karnataka, India. -----</p> <p>5)Mr. Manu Y M Address of Applicant :Assistant Professor, Department of Computer Science and Engineering BGS Institute of Technology Adichunchanagiri University B.G.Nagara, Nagamangala Taluk, Mandya District-571448, Karnataka, India. -----</p> <p>6)Ms.Priya Geete Address of Applicant :Research Scholar, Pacific Education Academy-452001, Madhya Pradesh, India -----</p> <p>7)Dr. Prashant Geete Address of Applicant :Professor MED, Acropolis Institute of Technology & Research Indore-452001, Madhya Pradesh, India -----</p> <p>8)Mr.Raja Raju Address of Applicant :Assistant Lecturer, St.Joseph University in Tanzania, P.O.Box: 11007,Tanzania -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West- 795140, Manipur, India -----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West-795140, Manipur, India -----</p>
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(57) Abstract :

Internet of Things Based Wearable intelligent device for Next Generation- Healthcare Sector Abstract: When it comes to patient care, wearable technology is becoming increasingly important. As more people use Internet of Things apps, it becomes easier and easier for them to use. According to public expectations, new cloud and terminal technologies will make the service more reliable and intelligent. Cloud-based machine learning provides cloud-based machine intelligence by collecting and analysing physiological data from wearable smart clothing in the proposed system, which can be washed and reused multiple times. This data is sent to the cloud, where machines can use it. Because of wearable technology, users and doctors can now obtain a massive amount of data for medical purposes.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061605 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR PREPARATION OF PYRAZOLE-CARBOXYLATE INTERMEDIATES

(51) International classification :A01N0043560000, C07D0401040000, C07D0261180000, A01N0037200000, C07C0055070000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT METHOD FOR PREPARATION OF PYRAZOLE-CARBOXYLATE INTERMEDIATES The present invention generally relates to an improved process for preparation of pyrazole-carboxylate intermediate of Formula II, an intermediate for preparation of certain anthranilamide compounds, for example chlorantraniliprole and cyantraniliprole. Formula II

No. of Pages : 29 No. of Claims : 12

(54) Title of the invention : A NOVEL CLASSICAL ERROR CONTROL CODES SYSTEM USING DESIGN AND VERIFICATION OF VERILOG HDL

<p>(51) International classification :H04L0001000000, G06F0030330000, H03M0013030000, G06F0011220000, H03M0013090000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Manju Devi Address of Applicant :Professor and Head, Department of Electronics and Communication Engineering, The Oxford College of Engineering, Bommanahalli, Bangalore – 560068 Karnataka India ----- 2)Prof. Laya Tojo 3)Prof. Lakshmi R Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Manju Devi Address of Applicant :Professor and Head, Department of Electronics and Communication Engineering, The Oxford College of Engineering, Bommanahalli, Bangalore – 560068 Karnataka India ----- 2)Prof. Laya Tojo Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, The Oxford College of Engineering, Bommanahalli, Bangalore – 560068 Karnataka India ----- 3)Prof. Lakshmi R Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, The Oxford College of Engineering, Bommanahalli, Bangalore – 560068 Karnataka India -----</p>
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(57) Abstract :

Nowadays, intelligent devices can be found anywhere around us, and which help our living more comfortable. Communication systems are their main modules, and which have been attracting many scientists around the world. However, communication systems are performed under many errors from environments and obstacles around us. To overcome obstacles and make trustable and stable transmission, error control codes are invented and to be a great research fields to improve the performance such as detecting and correcting capability. In this invention, various types of error control code such as three popular error detecting and correcting codes: parity-check, CRC, and Hamming codes are introduced detailly on those structures and applications. In addition, their system on chip design is implemented on VERILOG HDL. Finally, the test benches with many test cases are mentioned to verify the function of those codes. Figure 1.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061653 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Three Finger Flex Gripper

(51) International classification :B25J0015020000, B25J0015100000, B25J0015000000, B25J0015120000, B25J0009140000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This novel invention aims to design and develop a new simple form of soft gripper that consists of three-fingered pneumatically actuated robotic gripper with infinite degrees of freedom and applicable in automation of tasks. There are new opportunities available in soft robotics and some potential avenues to overcome challenges associated with the optimization of the gripping force of the designed three fingered flex gripper. The optimization of gripping force can be achieved by optimizing certain parameters. The parameters to be optimized are the number of fingers, inlet pneumatic pressure, internal structure and material combinations. The load capacity of the gripper is improved, thereby, enabling grippers to grip various objects with different shapes, geometries and stiffness. The selected gripper material of silicone material can withstand wider pressure range and is a food grade material. So, it can be successfully employed for use in food handling and processing industries.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061670 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Rating System for Comparative Analysis of Tradable Securities and Method Thereof

(51) International classification :G06Q0040060000, G06Q0040040000, G06Q0040000000, G06N0005040000, G06Q0090000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: Rating System for Comparative Analysis of Tradable Securities and Method Thereof The present disclosure proposes a rating system for comparative analysis of tradable securities and method thereof. The system 100 comprises a first selection module 102, a first analysis module 104, a second selection module 106, a second analysis module 108, a processing module 110 and a display module 112. The proposed versatile rating system for comparative analysis of tradable securities enables easy and customized analysis and comparison of different analyses results and thereby aids the investors to take better investment decisions. The proposed rating system concatenates the results of various analyses such as technical analysis and fundamental analysis of securities and displays a comparative analysis to aid in decision making process of the investor. Further, the proposed rating system enables the investors to choose from a wide range of parameters and define a rating system based on their choice.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061738 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : EFFECTIVE SMART FALL DETECTION AND PREVENTION SYSTEM FOR BEDS AT HOME AND HOSPITALS

(51) International classification :A61B0005110000, A61B0005000000, E03D0005100000, H04W0012080000, A42B0003040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT The present invention relates to an effective smart fall detection and prevention system for beds at home and hospitals. The system comprises an IoT kit in which ESP32 microcontroller and two L298N motor drivers; a set of E18 IR proximity sensors, one set is fixed on inner side of the head board and other set on the foot board of the cot; a sound sensor placed at the head board of the cot; and a set of safety pads. When the user roll on to the edge of the cot base, either left or right, the sensors placed on head and foot board on the respective side will detect the user's motion and send the signal to the microcontroller which in turn triggers the appropriate motor driver to lifts the safety pad upward. Once the user returns to their normal position, sensor allows the safety pad to slide down slowly.

No. of Pages : 17 No. of Claims : 8

(54) Title of the invention : A MACHINE LEARNING BASED APPROACH TO STUDY THE NUTRIENT REQUIREMENT OF UNDERGROUND STEMS ALONG WITH ITS YIELD

(51) International classification :G06N002000000, G06K0009620000, A01B0079000000, A01G0031020000, G06K0009520000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 A machine learning based approach to study the nutrient requirement of underground stems along with its yield is the proposed invention that focuses on looking out for the well-being of the crops that are grown the underground. The invention aims at automatically dispensing intervals so that the stems will not have any hindrances for their growth. Clustering and classification techniques are used to calculate yield per square feet of land.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : COMBINED HOMOGENEOUS AND HETEROGENEOUS ADVANCED OXIDATION PROCESS FOR THE TREATMENT OF TANNERY WASTEWATERS

<p>(51) International classification :C02F0001720000, C02F0001320000, C02F0101300000, B01J0035000000, C02F0001300000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SELVABHARATHI GOPAL Address of Applicant :SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL, TAMILNADU, INDIA - 624002. ----- 2)ADISHKUMAR SOMANATHAN 3)RAJESHBANU JEYAKUMAR Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SELVABHARATHI GOPAL Address of Applicant :SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL, TAMILNADU, INDIA - 624002. ----- 2)ADISHKUMAR SOMANATHAN Address of Applicant :UNIVERSITY V.O.C COLLEGE OF ENGINEERING, ANNA UNIVERSITY, THOOTHUKUDAI CAMPUS, THOOTHUKUDI, TAMILNADU, INDIA 628008. --- ----- 3)RAJESHBANU JEYAKUMAR Address of Applicant :CENTRAL UNIVERSITY OF TAMILNADU, THIRUVARUR, TAMILNADU, INDIA 610005. -----</p>
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(57) Abstract :

This study investigated the practical application of combined advanced oxidation processes (AOPs), such as homogeneous TIO₂ photocatalysis and heterogeneous photo-Fenton, for the treatment of tannery wastewaters. An optimization study was conducted on the photocatalytic degradation of tannery wastewaters, in order to understand the effects of different operating parameters on the degradation kinetics. The chemical oxygen demand of tannery wastewater decreased from an initial level of 3,400 mg/L in raw wastewater to 1.40 mg/L (96% removal) in wastewater treated by the combined advanced oxidation process at optimum pH 7, TiCb dosage of 0.2 g/L, Fe²⁺ dosage of 0.5 g/L. H₂O₂ dosage of 1.8 g/L and a treatment time of 4 hours. The biodegradability of wastewater increased from an initial level of 0.4 to 0.7 after treatment under optimum experimental conditions at a treatment time of 60 min. An annual treatment cost of US\$21.34/m³ of treated water was obtained. The combined advanced oxidation process proved to be an efficient and appropriate technique for the effective removal of complex organic compounds in industrial wastewater.

No. of Pages : 7 No. of Claims : 8

(54) Title of the invention : MULTI OPTIMIZED DIGITAL ADDITIVE MANUFACTURING SYSTEM USING IOT

<p>(51) International classification :B33Y0010000000, B33Y0070000000, B33Y0030000000, B29C0064118000, B29C0064106000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)D.SENTHILKUMARAN Address of Applicant :SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL, TAMILNADU, INDIA - 624002. -----</p> <p>2)B.ARAVINDH Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)D.SENTHILKUMARAN Address of Applicant :SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL, TAMILNADU, INDIA - 624002. -----</p> <p>2)B.ARAVINDH Address of Applicant :SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL, TAMILNADU, INDIA - 624002. -----</p> <p>3)M PRABHAKARAN Address of Applicant :SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL, TAMILNADU, INDIA - 624002. -----</p> <p>4)S.SHALINI Address of Applicant :5-4-7/74, MAHADEVAPPA LAYOUT, ANANTAPUR, ANDHRA PRADESH, INDIA 515001. ----- -----</p>
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(57) Abstract :

Recent advancements in additive manufacturing (AM), commonly known as three-dimensional (3D)-printing, involves layer by layer addition of material to form the desired shape. The material properties affects the shape/property/functionally after printing as a function of time. In recent advances 4D printing as an extended technique of 3D printing or additive manufacturing with added time constraint. 4D printing permits the base material to transform into different shapes with time with the response of external stimuli and multi material printing is still limited in this process. The logical step is have a extruder with in filament changer that can selectively switch the behavior and operations of food products such as shape-shifting, multicolor, material properties and self-assembly in FDM systems

No. of Pages : 7 No. of Claims : 9

(54) Title of the invention : INTELLIGENT SYSTEM FOR REMOTE PERSON MONITORING BASED ON THE INTERNET OF THINGS AND WIRELESS BODY SENSOR

(51) International classification :A61B0005000000, B60R0025102000, H04N0021643000, H04N0007180000, H01L0027120000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
The present invention is related to Intelligent system for remote person monitoring based on the internet of things and wireless body sensor . The objective of present invention is to solve the abnormalities presented in the prior art techniques related to remote monitoring of the patient.

No. of Pages : 29 No. of Claims : 4

(54) Title of the invention : A SMART IOT BASED GEYSER THAT SUPPORTS FOR LESSER ELECTRICITY CONSUMPTION

(51) International classification :F24H0009200000, H04L0029120000, A01K0061800000, G08B0021180000, G08B0027000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A smart IOT based geyser that supports for lesser electricity consumption is the proposed water heater that comes with new features. It includes SOS alert mechanism to send notifications in case of conveying any information to the user. The invention focuses n designing a water geyser that will indicate the level of filled up water and the time it takes to heat the water to the temperature set by the user. The geyser comprises of temperature sensor and water level indicator sensor and tries to address all the disadvantages that are inherent in the existing system.

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : AN EFFICIENT METHODOLOGY TO MANAGE THE BIO-MEDICAL WASTES COLLECTED FROM HOSPITALS AND DIAGNOSTIC CENTERS

(51) International classification :H04L0012100000, A61B0006000000, A61B0005040800, A01K0067033000, G16H0010650000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 An efficient methodology to manage the bio-medical wastes collected from hospitals and diagnostic centers aims at designing and implementing a framework for collecting wastes from various places such as hospitals, laboratories, nursing homes etc. The invention focuses on disposing of the bio-medical wastes in a safe and secure manner without causing any harm to the environment as well as the humans. It is implemented using a device and an innovative incinerator. The device will identify the wastes and segregates them as wet and dry waste. The device will monitor the wastes. The device will monitor the wastes from various places over cloud.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061892 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Wearable- Antennas based Smart Energy Storage, Monitoring system by using Textile Resources

(51) International classification :H01Q0001380000, H01Q0001270000, H04B0001382700, H01Q0001360000, D06M0015356000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Wearable- Antennas based Smart Energy Storage, Monitoring system by using Textile Resources Abstract: Wearable antennas can be used to monitor, communicate, and store energy in a small and lightweight device that can be worn on the body in health and other applications. In order to function, wearable antennas made of flexible resources. Many factors influence how well an antenna works. When creating a antenna, it is critical to consider the breadth of the substrate. Electrically conductive textiles are widely used in a variety of applications. This project made use of people's clothes and other materials. On the other hand, little is known about the electromagnetic properties of everyday textiles such as clothing and shoes. This is the main topic of this paper. A low dielectric can be used to increase the impedance bandwidth of an antenna and reduce surface wave losses. This is due to the fact that textiles are porous and can be compressed, which means that their thickness and density can vary even at low pressures. Understanding how antenna characteristics affect its behaviour is critical for avoiding bad outcomes. We'll go over everything from selecting the right textile material to framing the antenna in this section. This is a high-level overview of the most critical aspects of designing and developing textile antennas. In addition, the textiles used in the manufacturing process are scrutinised.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : Impact of E-Requirement on Effectiveness of HR Department

<p>(51) International classification :G06Q0010100000, G06Q0010060000, G06Q0090000000, G09B0019180000, G06F0016000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. N Md Faiyaz Ahmed Address of Applicant :Assistant professor of commerce (F&A), Islamiah College (Autonomous), Vaniyambadi, Tirupattur District, Pin: 635751 State: Tamilnadu Country: India</p> <p>-----</p> <p>2)Mrs.T.DHIVYA PRIYA 3)Dr. Shikha Goyal 4)Prof. Hitendra Ramraoji Aher 5)Dr. Mohammad Rauf 6)Dr. K. KARTHIKEYAN 7)Dipti Anil Bajpai 8)Dr. K. Sivaperumal 9)Dr. Arun Kumar Pallathadka 10)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. N Md Faiyaz Ahmed Address of Applicant :Assistant professor of commerce (F&A), Islamiah College (Autonomous), Vaniyambadi, Tirupattur District, Pin: 635751 State: Tamilnadu Country: India</p> <p>-----</p> <p>2)Mrs.T.DHIVYA PRIYA Address of Applicant :Assistant Professor, Nehru Arts and Science College, Coimbatore. State: Tamilnadu Country: India -----</p> <p>3)Dr. Shikha Goyal Address of Applicant :Assistant Professor, PDM University, Sarai Aurangabad, Bahadurgarh Pin:124507 State: Haryana Country: India -----</p> <p>4)Prof. Hitendra Ramraoji Aher Address of Applicant :Principal, Kar. Ramraoji Aher Arts,Commerce Science and Commerce College Deola 423102, Dist. Nashik. State: Maharashtra Country: India -----</p> <p>5)Dr. Mohammad Rauf Address of Applicant :University Aligarh Muslim University Murshidabad centre, Pin: 742223 State : west Bengal Country: India -----</p> <p>6)Dr. K. KARTHIKEYAN Address of Applicant :Assistant Professor, Department of Corporate Secretaryship and Accounting & Finance, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur Campus, Chengalpattu District. Pin: 603 203 State: Tamil Nadu. Country: India -----</p> <p>7)Dipti Anil Bajpai Address of Applicant :Assistant Professor Institute of Industrial and Computer Management and Research IICMR Pune HS-2 Sector- 27 A, Pradhikaran Nigdi Pune Pin: 411044 State: Maharashtra Country: India -----</p> <p>8)Dr. K. Sivaperumal Address of Applicant :Assistant Professor, Vel Tech Ranga Sanku Arts College, Avadi, Chennai 62. TamilNadu India -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West. Pin: 795140 State: Manipur Country: India -----</p> <p>-----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140 State: Manipur Country: India -----</p>
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(57) Abstract :

Impact of E-Requirement on Effectiveness of HR Department Abstract: They want to know, among other things, how e-recruitment affects the quality of applicants, how much time and money it takes to get applications, and how much more diverse the applicant pool is for this study. They also want to develop a way of thinking about the world that incorporates their findings. For the most part, these variables have been studied independently, rather than as part of a larger study of human resource management. Human resource systems may not have been as clear to us as they should have been due to a lack of research and knowledge about them. If you believe that electronic recruitment improves candidate quality, reduces costs, and makes it easier to reach a larger geographic area, you need more evidence to see how it affects a company's bottom line. According to the findings, focusing on Indian hospitality and healthcare services was a significant part of the research. The primary goal of this research is to determine how e-impact recruitment affects the quality of applicants, the cost and time required to hire new employees, the availability of a broader range of talent, and how employees search for jobs. It's a first for India in terms of hospitality and medical care. There is a significant difference in how each industry seeks new employees. Study: Companies can improve the quality of their new hires while also reducing the time and money spent on the process. HR inputs and practises have a direct link to measurable business results, giving businesses a competitive advantage in the market. The findings of this study contribute to the advancement of human resource theory. Make better hiring decisions using the study's findings. Human resource managers can spend their time developing and maintaining a more productive talent pool rather than wasting time on ineffective methods of recruiting and hiring. In the future, use this information to hire people who will assist the organisation in meeting its goals and objectives.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : The Application of Internet of Things (IoT) Technology to Analyze Electrical Quantities in Real Time

<p>(51) International classification :G01R0023020000, G06F0030200000, H02J0003000000, G05F0001700000, G01R0021133000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)D.Shekar Goud, Assistant Professor / Department of ECE, Ellenki College of Engineering and Technology. Address of Applicant :Ellenki College of Engineering and Technology, Patalguda, Patancheru, Sangareddy, Telangana-502319. ----- 2)Dr.S. Sree Hari Raju, Associate Professor / Department of CSE, Nalla Narsimha Reddy Educational Society's Group of Institutions. 3)S Karunakar Reddy, Associate Professor/ Department of ECE, ACE Engineering College. 4)P Sravani, Assistant Professor / Department of ECE, Matrusri Engineering College. 5)Mandula Ashok, Assistant Professor/ Department of IT, Sri Indu College of Engineering & Technology (Autonomous). 6)Shek Shakeel, Assistant Professor/ Department of IT, Sri Indu College of Engineering & Technology (Autonomous). 7)A Sathish, Assistant Professor / Department of ECE, Nalla Narsimha Reddy Educational Society's Group of Institutions. 8)G.Keerthi, Assistant Professor /Department of CSE, Aurora's Technological & Research Institute. 9)K. Madhavi, Assistant Professor / Department of ECE, Nalla Narsimha Reddy Educational Society's Group of Institutions. Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)D.Shekar Goud, Assistant Professor / Department of ECE, Ellenki College of Engineering and Technology. Address of Applicant :Ellenki College of Engineering and Technology, Patalguda, Patancheru, Sangareddy, Telangana-502319. ----- 2)Dr.S. Sree Hari Raju, Associate Professor / Department of CSE, Nalla Narsimha Reddy Educational Society's Group of Institutions. Address of Applicant :Nalla Narsimha Reddy Educational Society's Group of Institutions, Narapally, Ghatkesar, Telangana-500088 ----- 3)S Karunakar Reddy, Associate Professor/ Department of ECE, ACE Engineering College. Address of Applicant :ACE Engineering College, Ankushapur, Ghatkesar, Hyderabad, Telangana-501301 ----- 4)P Sravani, Assistant Professor / Department of ECE, Matrusri Engineering College. Address of Applicant :Matrusri Engineering College, Sapota Bagh, New Malakpet, Hyderabad, Telangana-500059. ----- 5)Mandula Ashok, Assistant Professor/ Department of IT, Sri Indu College of Engineering & Technology (Autonomous). Address of Applicant :Sri Indu College of Engineering & Technology (Autonomous), Ibrahimpatnam, R.R. District, Telangana-501510. ----- 6)Shek Shakeel, Assistant Professor/ Department of IT, Sri Indu College of Engineering & Technology (Autonomous). Address of Applicant :Sri Indu College of Engineering & Technology (Autonomous), Ibrahimpatnam, R.R. District, Telangana-501510. ----- 7)A Sathish, Assistant Professor / Department of ECE, Nalla Narsimha Reddy Educational Society's Group of Institutions. Address of Applicant :Nalla Narsimha Reddy Educational Society's Group of Institutions, Narapally, Ghatkesar, Telangana-500088. ----- 8)G.Keerthi, Assistant Professor /Department of CSE, Aurora's Technological & Research Institute. Address of Applicant :Aurora's Technological & Research Institute, Parvathapur, Ghatkesar, Uppal, Telangana-500098. ----- 9)K. Madhavi, Assistant Professor / Department of ECE, Nalla Narsimha Reddy Educational Society's Group of Institutions. Address of Applicant :Nalla Narsimha Reddy Educational Society's Group of Institutions, Narapally, Ghatkesar, Telangana-500088. -----</p>
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(57) Abstract :
Abstract Energy, Voltage, Power, Current, Power Factor, and Frequency are all electrical parameters that can fluctuate in an electrical power system due to load alterations, instabilities, or further abnormal conditions. To avoid a significant problem for the entire system, a change in electrical amounts must be identified immediately. Therefore, it is vital to quickly and accurately identify the current state of electricity in order to make the best judgments possible. Using Internet of Things (IoT) technology, a three-phase main distribution panel power building's distribution system was monitored online. Arduino is used to processing the data, which is then stored on a server and shown on a web-based presentation in real-time. The measuring system offers many significant features, including real-time observing, comprehensive data gathering, cataloging, and system reporting, which may be utilized for different resolutions of power generation investigation, such as planning and estimation. The conclusion demonstrates that the electrical system at the building has an instable load, frequently results in a drop-voltage state.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061895 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : Artificial Intelligence based Video surveillance system using Open CV and Deep Learning

(51) International classification :G06K0009000000, G06Q0020400000, G08B0013196000, H04N0007180000, G06Q0020100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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(57) Abstract :
 Artificial Intelligence based Video surveillance system using Open CV and Deep Learning Abstract: Security is critical in today's world. Because the internet has grown in popularity, automated devices have become more common. This is due to the increased popularity of the internet. To ensure that every transaction is successful, secure authentication must be used. As a result, a Face Recognition system was developed. These tools can be used to identify and authenticate users, deal with security issues, and do a variety of other things. This technology is most commonly found in real-time surveillance systems. We created a graphical user interface for the Convolution neuron network, which was used to create datasets and identify objects. The system must first obtain the user's permission before creating the dataset and training the model.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061897 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : An intelligent transportation Road Accident Prediction and Prevention (RAPP) Device

(51) International classification :G08G0001096700, G08G0001010000, G08G0001090000, G08G0001160000, G06F0011070000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Nowadays, there is a tremendous change with transportation facilities in metropolitan cities across India. The population, as well as the usage of the vehicles, is increasing at a higher rate which causes a lot of congestion and road accidents. In reality, road accident severity is the major concern in underdeveloped and developing countries. Road accident strictness is a major apprehension of the world, particularly in middle-income and low-income countries. Identifying the key areas where serious injuries and death crashes occurring. Provide solutions for risk reduction and prevention, that is warning road travellers about risk and speed by taking mitigating actions. The Main objective of proposal is to predict and prevent the accidents, by alert the drivers traveling in a particular route with voice based alert messages regarding speed limit exceeding, accident prone areas and traffic congestion to improve traffic efficacy and augment road safety. The RAPP device associated with vehicle mainly consist of six units namely GPS track, database of accidents and violations, Arduino nano board, GSM module, and voice message alert sensor. The model and approach are described in detail with the help of the figure. Figure 1 represents the overall structure of an intelligent transportation RAPP (Road Accident Prediction and Prevention) Device.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062057 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DIGITIZED IMAGE PROCESSING TECHNIQUE FOR TRAFFIC JAM DETECTION

(51) International classification :G08G0001010000, G08G0001040000, G08G0001140000, G08G0001017000, G06K0009620000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Increased highway congestion and issues with conventional detectors have sparked interest in vehicle detection technology such as video image processing/Commercial image processing systems performed well in free-flowing traffic, but they struggle in congested locations. Vehicles appear differently under varied lighting and climatic circumstances, which are one of the existing traffic, jam identification challenges. As a result, current technologies have a difficult time distinguishing between traffic on highways and traffic on city streets. As a result, the goal of this research is to create a feature-based tracking system that can recognize cars in these difficult settings. Rather than watching complete vehicles, vehicle attributes are tracked to allow the system to quickly determine traffic conditions. We tested all of the photographs on our three levels of the programme, including Grey scale, under varied traffic and non-traffic scenarios. We tested all of the sample images on our three levels of the application, which are Grey scale level, Eigen Matrix level, and Eigen Vector level, under varied traffic and non-traffic scenarios. After we've accomplished all three levels, we'll try to figure out what the traffic situation is in that region.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202144039375 A

(19) INDIA

(22) Date of filing of Application :31/08/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ENGINE INSULATION FOR TRUCKS USED AT HIGH ALTITUDES

(51) International classification	:B01J0031020000, B60N0003100000, B32B0017020000, B32B0005160000, E04D0013160000	(71) Name of Applicant : 1)Dr. Arvind Chakrpaani Address of Applicant :Karpagam college of Engineering ----- ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:PCT/US2002/040637	(72) Name of Inventor : 1)ARUN SANKAR V V Address of Applicant :Dept. of Mechanical Engineering, Karpagam College of Engineering -----
(32) Priority Date	:21/12/2020	2)DINESH P Address of Applicant :Dept. of Mechanical Engineering, Karpagam College of Engineering -----
(33) Name of priority country	:-----	3)HIRTHICK ROZAN K V Address of Applicant :Dept. of Mechanical Engineering, Karpagam College of Engineering -----
(86) International Application No	:PCT//	4)MANIMARAN M Address of Applicant :Dept. of Mechanical Engineering, Karpagam College of Engineering -----
Filing Date	:01/01/1900	5)SHRINIVASS R Address of Applicant :Dept. of Mechanical Engineering, Karpagam College of Engineering -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The main vision of the invention is to limit the dissipation amount of the heat from CI engines of heavy load vehicles at higher altitude regions by providing insulation material over engine surface. For this, we use various types of insulating material, In that we choose Mineral wool, in these, we analysis the material, then symbolize it's odd one's which matches our needs in this invention and choose the favorable insulation that meet our targetable expectations. In this, we can fix a problem in an additive-based environmental damage which has been caused by a vehicle in the ecosystem. Then the pricing of the automobile fuels in hilly and snowy regions will become normal as much as in other regions. Usage of additives will become lesser than before in the society. And it will promote a healthy engine and environment.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024496 A

(19) INDIA

(22) Date of filing of Application :11/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A NOVEL SOLAR WATER FILTRATION AND HEATING SYSTEM FOR PROVIDING CLEAN DRINKING WATER AND COOKING PURPOSE

(51) International classification :C02F0001000000, F24S0010400000, C02F0001280000, F24S0060300000, F24S0030425000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A NOVEL SOLAR WATER FILTRATION AND HEATING SYSTEM FOR PROVIDING CLEAN DRINKING WATER AND COOKING PURPOSE A novel solar water filtration and heating system(1) is disclosed. The said novel solar water filtration and heating system(1) comprises an assistant tank(2) having a floating valve(21) to regulate the flow of water; a two tier cylindrical structure(5) having a first chamber(3) stacked above a second chamber(4); the first tank(3), configured to receive regulated water inflow from the said assistant tank(2), comprising a lid(31), a plurality of gravity flow nano clay filters(32) protruding up-wards from the bottom plate(33) of the first tank; the second tank(4), configured to receive filtered water from the said first tank(3), made up of a fibre reinforced plastic outer layer(41) and metal lined inner layer(42);evacuated tube collectors(5) protruding outwards and slant downwards from a peripheral ring(51) at the bottom of the said second tank(4), wherein the evacuated tube collectors(5) at inner end(52) are fluidly connected to the said second tank(4) to facilitate inflow of water due to gravity action and outflow of heated water through the said inner end(52) due to thermal convection; a structural ring(53) connected to the sealed outer ends(54) of the plurality of said evacuated tube collectors(5) to provide structural rigidity; an outlet(6) at the bottom of the said second tank to provide filtered hot water. Fig 1.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131041779 A

(19) INDIA

(22) Date of filing of Application :15/09/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A REAL-TIME PERSONALIZED ASSISTANCE PROVIDING SYSTEM AND METHOD BASED ON IOT DEVICES EXHIBITING SOCIAL BEHAVIOR

(51) International classification	:H04L0029080000, G06Q0050000000, G06Q0030060000, G06Q0030020000, G06F0016953500	(71)Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA Address of Applicant :Patna-800005, Bihar, India -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)AKASH SINHA
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(62) Divisional to Application Number	:NA	2)PRABHAT KUMAR
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(57) Abstract :

A real-time personalized assistance providing system (100) on IoT devices exhibiting social behavior, comprising of: at least one mobile device (1) accessed by a user for requesting assistance related to point of interest, an internet of things based computer network (2) setup, a social media server (4), an intelligent recommendation module (13), wherein, said mobile device (1) includes a user profile manager module (8), a processor (19) and permits said user to upload personal opinion about any point of interest said intelligent recommendation module (13) analyses said social circle graph, said data related to said requested assistance and a real time location of said user provided by said mobile device (1) for providing an optimal and personalized assistance in real time, said intelligent recommendation module (13) stores and processes one or more feedbacks or opinions of said user for learning about the users' preferences to provide a personalized assistance.

No. of Pages : 38 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131052146 A

(19) INDIA

(22) Date of filing of Application :13/11/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : VIBRATION ASSISTED CASTING SETUP FOR SYNTHESIS OF FUNCTIONALLY GRADED MATERIALS

(51) International classification :B22D0027080000, B01J0019240000, C04B0035140000, B29C0070620000, C22C0047080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Our Invention, "Vibration Assisted Casting Setup for Synthesis of Functionally Graded Materials", is a novel processing technique to synthesize functionally graded materials (FGMs) based on the generation of Faraday waves on the free surface of the molten aluminum using a mechanical vibration system that can control the dispersion of the reinforcing particles in a fluidic medium, consisting of a heating furnace with a 10mm hole at the bottom, a function waveform generator that can generate waveforms (sine, square, pulse, and arbitrary), and an acoustic system. This wave can be imparted to the flat bottom of the mold made up of H13 tool steel, filled with molten aluminum using a stud mounted on an acoustic system (speaker). The mold with bottom thickness <10mm will be suspended in the furnace enclosure, and the stud coming out from the bottom hole of the stove will vibrate the flat bottom surface of the mold. It can be achieved by creating ripples in the free surface using vibration in the vertical direction. This process is known as the fabrication of aluminum-based FGMs by vibration-assisted casting. Thus, the distribution of fine particles can be controlled efficiently in a fluidic medium by adjusting the various process parameters such as vibrational frequency, amplitude, density of the reinforcing particles, and wave exposure time.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131052394 A

(19) INDIA

(22) Date of filing of Application :15/11/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD AND APPARATUS FOR MEASURING THE ABSORPTIVITY OF MATERIALS WITH DIFFERENT CONTOUR SURFACE

(51) International classification :G01R0031000000, G01N0025200000, G01N0025180000, G01M0011000000, B65B0031020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An apparatus (100) and method for measuring the absorptivity of materials with different contour surface comprises an insulated box (103) fixed with the experimental table (101) in a horizontal position. The electric heater (108) is mounted on the insulated box (103), while the testing surface-1 (109), and testing surface-2 (110), are placed on bottom side of the insulated box (103) in the appropriate position. Both the surfaces are placed at equidistance from the electric heater (108). Plurality of thermocouple/temperature sensors (111, 112, 113) are attached to the electric heater (108), testing surface-1 (109) and testing surface-2 (110) respectively to measure the temperatures at the regular intervals with the help of digital temperature indicator (105).

No. of Pages : 20 No. of Claims : 7

(54) Title of the invention : REMOVE THE PRINTED TEXT, LINE, IMAGE (COLOR, BLACK) AND PRINT AGAIN WITH SAME QUALITY OF DEFINED PRINTING.

<p>(51) International classification :G06K0009380000, G06K0009340000, D21H0021160000, G06T0007900000, B65H0075100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Satish Kumar Kalhotra (Sr. Associate Professor) Address of Applicant :Dept. of Education, Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh, PIN 791112, India. -----</p> <p>2)Madhuri B. Babar (Assistant Professor)</p> <p>3)Dr. Surinder Singh (Assistant Professor)</p> <p>4)Dr. Pushpa Mamoria</p> <p>5)Dr. Rajeev Kumar Shakya (Assistant Professor)</p> <p>6)Prof. (Dr.) Manish Sharma</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Satish Kumar Kalhotra (Sr. Associate Professor) Address of Applicant :Dept. of Education, Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh, PIN 791112, India. -----</p> <p>2)Madhuri B. Babar (Assistant Professor) Address of Applicant :J.D. College of Engineering & Management Nagpur, MH, India. -----</p> <p>3)Dr. Surinder Singh (Assistant Professor) Address of Applicant :Room no 310, Top floor, Chemical Engineering Building, Dr. S S Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh-160014., India. -----</p> <p>4)Dr. Pushpa Mamoria Address of Applicant :Sr. Lecturer, Department of Computer Application, UIET, CSJM University Kanpur- 208024, UP, India. -----</p> <p>5)Dr. Rajeev Kumar Shakya (Assistant Professor) Address of Applicant :Dept of ECE, School of Electrical Engineering & Computing, Adama Science & Technology University, Adama-1888, Ethiopia. ----</p> <p>6)Prof. (Dr.) Manish Sharma Address of Applicant :DIRECTOR- IQAC, INTERNAL QUALITY ASSURANCE CELL, (IQAC) , DEAN, RESEARCH AND DEVELOPMENT, BAHRA UNIVERSITY,SHIMLA HILL, HP, INDIA. -----</p>
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(57) Abstract :

Our Invention "Remove the Printed Text, Line, image (Color, Black) and Print again with same Quality of Defined printing" is the methodology of learning from experience has been more and more applied on problems where a proper mathematical modeling is impossible. For example, it is not known how to mathematically model the relationship between a block of pixels for distinguishing text and backgrounds. In most of generative statistical methods, such as the maximum likelihood ratio testing, large number of training examples are needed to obtain a good probabilities distribution estimation of target events. In comparison with these generative approaches, discriminative machine learning methods aim at find the boundaries between different target events and therefore potentially need less training data. Since there are only two targeting classes, text and non-text, the discriminative methods are usually more successful than the generative approaches. A self-erasing print device, on the other hand, consists of a base, such as A-4, A-3..All size paper, a printer, a printer motor, and peer ink that is heated and abstracted. The innovation often includes a self-erasing ink that includes an acid base indicator and a base, and in which the ink is colored when written but erases itself over a fixed period of time, allowing the surface to be reused after the ink has self-erased. The invention is a Defined printing, advanced Defined heating abstracting, intelligent removing technology, to a Defined printing or copying method for covering Defined printing or scribbling marks and also a unique spraying pixel material of which the set of color is the same as that of paper is adopted, the paper with the Defined printing or scribbling marks is printed or copied again, then the Defined printing or scribbling marks in the paper(Defined size) are fully covered, the paper restores to the original state and can be reused, and recovery processing of Re-waste paper and waste of office paper are avoided. This invented method is a is of great significance in achieving environment friendliness, protecting forest resources and saving paper first time in the world.

No. of Pages : 20 No. of Claims : 15

(54) Title of the invention : A PORTABLE IMPACT TESTING DEVICE AND A SYSTEM

(51) International classification :G01M0007080000, G01N0003303000, B62M0006900000, A63B0029080000, F21Y0107300000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date

(62) Divisional to :NA

Application Number :NA

Filing Date

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(57) Abstract :

The present subject matter disclosed herein relates to a portable impact testing device (100) and system (300) for generating impacts on-site in a composite structure. The device includes an upper tube (102) a lower tube (103) wherein the upper tube (102) is mounted on top of the lower tube (103). A bolt (101) fixed to a handle (109) on one side and is connected to the upper tube (102) on the other side. A spring (110) is situated between the bolt (101) and an impactor mass (111). A plurality of holes (104) are provided on the surface of the lower tube (103) and a locking unit (106) is provided at the bottom of the lower tube (103), wherein the locking unit (106) has a rebound catcher (114) that is connected to a spring (107) and a clip (115).

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : IMPACT OF ELECTRIC SPRING FOR IMPROVEMENT IN POWER QUALITY AND STABILITY OF POWER SYSTEM”

<p>(51) International classification :H02J0003140000, H02J0003000000, G06Q0030020000, G06Q0010060000, G06Q0050060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Guru Nanak Institute of Technology Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MS. MADHUMITA CHAKRABORTY Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114, West Bengal, INDIA -----</p> <p>2)DR. BARNALI KUNDU Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p> <p>3)MR. SHYAMAL KUMAR ROY, Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p> <p>4)MS. PRIYANKA DUTTA Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p>
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(57) Abstract :

The innovation aims at effective demand-side response by modulating the non-critical loads in response to the fluctuations in intermittent renewable energy sources. Demand side management (DSM) is an approach of consumer demand modification for energy consumption. It aims at encouraging the consumer to use less energy during the peak demand hours or shift the time of energy use to off-peak demand time. DSM is popular for various issues. It is beneficial for cost reduction, environmental and social improvement, increasing the reliability of network through reducing demand, and improving the electricity markets.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131055786 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD OF IDENTIFICATION OF DISEASE OF CROPS

(51) International classification :H04L0029080000, G06Q0050020000, H01Q0001220000, G01K0001020000, A01M0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention relates to a method of identification of disease of crops and in particular, this invention relates to a fast method of identification of disease of crops wherein IoT allows to embed multiple sensors to provide the information. More particularly, this present invention relates to the method identification of disease of crops wherein real-time images from the agricultural field will be collected by the camera placed in the IoT-based smart device. Furthermore, this invention also relates to a method of identification of disease of crops which is simple in process, easy to operate, low in preparation cost.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131055802 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A WEB BASED SYSTEM FRAME AND METHODOLOGY FOR MAKING AN E LEARNING PLATFORM

<p>(51) International classification :G06Q0050200000, G09B0007000000, G09B0005060000, G09B0005000000, G06F0009540000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Prarthita Biswas Address of Applicant :11A DOVER LANE,"Tribeni",FLAT No.A-3/13,Kolkata-700029,West Bengal,India -----</p> <p>2)Dr. Shyamasree Sur 3)Mr.Soumyakanti Sur Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Prarthita Biswas Address of Applicant :11A DOVER LANE,"Tribeni",FLAT No.A-3/13,Kolkata-700029,West Bengal,India -----</p> <p>2)Dr. Shyamasree Sur Address of Applicant :25/8/1, Diamond Harbour Road, Aranya Apartment, Flat No. 102, P. O. Barisha, Kolkata -700008 -----</p> <p>3)Mr.Soumyakanti Sur Address of Applicant :25/8/1, Diamond Harbour Road, Aranya Apartment, Flat No. 102, P. O. Barisha, Kolkata -700008 -----</p>
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(57) Abstract :

E-learning frameworks ordinarily require numerous equipment and programming assets. There are numerous instructive establishments that can't bear the cost of such speculations, and distributed computing is the best arrangement, particularly in the colleges where the utilization of PCs are more serious and what should be possible to expand the advantages of basic applications for understudies and instructors. The present invention relates to a web based system frame and methodology for making an e learning platform. Three layer design of the e-Learning stage is given to encourage the sharing, reusing learning articles and interoperability among different learning content productively. The middleware layer imports an ordering module and a metadata change module to finish metadata trade among recognized e-Learning guidelines. Consequently, students can utilize accessible learning objects without being subsidiary with different LMS.

No. of Pages : 11 No. of Claims : 1

(54) Title of the invention : INTELLIGENT HEALTHCARE SYSTEM FOR DETECTION OF TUMOR CELLS IN LUNG CANCER CT IMAGES USING IMAGE PROCESSING

(51) International classification :A61K0039000000, G01N0033574000, A61B0005080000, G06T0005000000, C07D0209140000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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6)Prof. Utpal Chandra De
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8)Rajinder Kumar
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(57) Abstract :
 The present invention relates to intelligent healthcare system for detection of tumor cells in lung cancer CT images using image processing. The objective of the present invention is to solve the problems in the prior art technologies related to diagnosis of the lung cancer and position of the tumor.

No. of Pages : 27 No. of Claims : 6

(54) Title of the invention : A SYSTEM FOR SHIP NAVIGATION BY USING PETRI NETS

<p>(51) International classification :C12M0001220000, G06F0030220000, B63G0009000000, G06Q0010040000, G06Q0010060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Guru Nanak Institute of Technology Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mandira Banik Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, India,An Indian National -----</p> <p>2)Akash Gupta Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, India An Indian National -----</p> <p>3)Arnab Basak Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p> <p>4)Ashish Kumar Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p> <p>5)Biswajeet Roy Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p>
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(57) Abstract :

This invention relates to a system for ship navigation using Petri nets and in particular, this invention relates to a system for ship navigation using Petri nets wherein each ship takes a different path to arrive to their respective destinations. More particularly, this present invention relates to a system for ship navigation using Petri nets wherein the number of routes and number of ships is restricted to two. Furthermore, this invention also relates to a system for ship navigation using Petri nets which is simple in process, while the structure of a model system is clear and accurate.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : IOT BASED SMART ROBOTIC ARM

(51) International classification :H04L0029080000, B25J0005000000, A61B0005055000, G01N0035000000, H01Q0003260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an IoT based smart robotic arm. More particularly, the present invention relates to the IoT based smart robotic arm which serve handicapped, aged, and blind people by providing domestic and medical assistance. This invention relates to the IoT based smart robotic arm wherein several types of motors help for smooth sinusoidal movement of the Mecanum Robotic Arm (MRA). The present invention relates to the IoT based smart robotic arm having an advantage of being used for both used commercially for hospitality and clinical purposes, very cost effective, simple in its action and easy to handle.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : IOT BASED SOLAR POWERED MULTIPURPOSE VEHICLE USED FOR CRICKET GROUND'S DEW SOAKING AND MOISTURE DRYING

<p>(51) International classification :B64D0027240000, C02F0001140000, H02J0007350000, F26B0021000000, H01R0013520000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Guru Nanak Institute of Technology Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MR. SOURISH MITRA Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>2)MR. SANDIP KUMAR KARMAKAR Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>3)PROF.(DR.) SANTANU KUMAR SEN, Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>4)MR. BISWAJIT CHAKI CHOUDHURY Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p>
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(57) Abstract :

The present invention relates to an IOT Based Solar Powered Multipurpose Vehicle. More particularly, the present invention relates to the IOT Based Solar Powered Multipurpose Vehicle used for Cricket Ground's Dew Soaking and Moisture Drying. This invention relates to the IOT Based Solar Powered Multipurpose Vehicle which can cover up the pitch by WPTM (waterproof poly-tarpaulin mat) to protect the twenty two yards from the rain. The present invention relates to the IOT Based Solar Powered Multipurpose Vehicle having an advantages of the requirement for drying the ground is met and the structure is simple, the construction cost is low, and the moisture prevention effect is good, very cost effective, simple in its action and easy to handle.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131056569 A

(19) INDIA

(22) Date of filing of Application :06/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING INDUSTRIAL PLANT

<p>(51) International classification :G06Q0010040000, B29C0045020000, H04L0012240000, A01G0009080000, G06N0020100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Vedanta Limited (Aluminium & Power) Address of Applicant :Vedanta Limited, Bhurkamunda, Sripura, Jharsuguda, Odisha - 768202, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MOHANTY, Bibhudatta Address of Applicant :Vedanta Limited, Bhurkamunda, Sripura, Jharsuguda, Odisha - 768202, India. -----</p> <p>2)SHEIKH, Irfan Address of Applicant :Vedanta Limited, Bhurkamunda, Sripura, Jharsuguda, Odisha - 768202, India. -----</p> <p>3)KUMAR, Pravin Address of Applicant :Vedanta Limited, Bhurkamunda, Sripura, Jharsuguda, Odisha - 768202, India. -----</p> <p>4)ACHARYA, Bhabani Shankar Address of Applicant :Vedanta Limited, Bhurkamunda, Sripura, Jharsuguda, Odisha - 768202, India. -----</p>
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(57) Abstract :

The present disclosure relates to a system (100) for controlling industrial plant, the system includes a plurality of pot controllers (110) located at the control room adjacent to each pot of the plurality of pots, the plurality of pot controllers coupled to a first computing device (102) and a second computing device (104), the plurality of pot controllers operatively coupled to a memory, the memory storing instructions executable by the plurality of pot controllers to receive the set of data pertaining to an operational state of plurality of pots, monitor a set of parameters to control electrolysis process of plurality of pots within the desired range, maintain historical data associated with the plurality of pots and update the first computing device through the second computing device, determine predictability of the electrolysis process of plurality of pots, and upgrade the plurality of pot controllers so as to refine the control process of the plurality of pots.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : AN APPARATUS FOR PROVIDING TRANSPARENT ACCESS CONTROL OF IOT DESTINATIONS

<p>(51) International classification :H04L0029080000, H04L0029060000, H04L0012240000, G06F0021710000, H04W0012000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mohammad Reza Hosenkhan Address of Applicant :Senior Lecturer, Department of Software Engineering Université des Mascareignes, Beau Plan Pamplemousses Mauritius-21001 -----</p> <p>2)Dr. Binod Kumar Pattanayak</p> <p>3)Mr. Anand Rajan</p> <p>4)Dr. Ajit Noonia</p> <p>5)N.RUBA</p> <p>6)Dr A. Shaik Abdul Khadir</p> <p>7)Dr. V. Maniraj</p> <p>8)Shweta Yadav</p> <p>9)Dr. Pratap Patil</p> <p>10)C.MURUGANANDAM Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mohammad Reza Hosenkhan Address of Applicant :Senior Lecturer, Department of Software Engineering Université des Mascareignes, Beau Plan Pamplemousses,Mauritius-21001 -----</p> <p>2)Dr. Binod Kumar Pattanayak Address of Applicant :Professor, Department of Computer Science and Engineering, Institute of Technical Education and Research, Siksha 'O' Anusandhan Deemed to be University, Jagamara, P. O. Khandagiri, Bhubaneswar, Odisha, India, Postal Code: 751030 -----</p> <p>3)Mr. Anand Rajan Address of Applicant :ASSISTANT PROFESSOR SCHOOL OF COMPUTER APPLICATION BABU BANARASI DAS UNIVERSITY, LUCKNOW -----</p> <p>4)Dr. Ajit Noonia Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Rajasthan, Jaipur, India, 303002 -----</p> <p>5)N.RUBA Address of Applicant :Research Scholar, Dept of Computer Science, Khadir Mohideen College, Adirampattinam, Thanjavur, Affiliated to Bharathidasan University, Tiruchirappalli, Tamil Nadu - 614701 -----</p> <p>6)Dr A. Shaik Abdul Khadir Address of Applicant :Associate Professor and Head, Dept of Computer Science, Khadir Mohideen College, Adirampattinam, Thanjavur, Affiliated to Bharathidasan University, Tiruchirappalli, Tamil Nadu, India - 614701 -----</p> <p>7)Dr. V. Maniraj Address of Applicant :Associate Professor and Coordinator, Dept of Computer Science, AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur, Tamil Nadu, India - 613503 - -----</p> <p>8)Shweta Yadav Address of Applicant :Senior IT ADY patil, 411057 -----</p> <p>9)Dr. Pratap Patil Address of Applicant :Dept: Dept of IT and Engineering Affiliation: Amity University in Tashkent, Uzbekistan. City: Tashkent, Pin: 100114 Country: Uzbekistan -----</p> <p>10)C.MURUGANANDAM Address of Applicant :Assistant Professor, Dept of Computer Science, Rajah Serfoji Government College (Autonomous), Thanjavur, Tamil Nadu - 613005 -----</p>
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(57) Abstract :

The present invention discloses an apparatus for providing transparent access control of IoT destinations. The apparatus includes, but not limited to, a memory unit for storing controlling policy function with a plurality of refinement templates, or access control availability policy function in an IoT network; and a processing unit that is configured to: receive a controlled policy function from an IoT node with each of the refinement template, and the availability policy function from the memory unit; receive a controlled policy input indicating a high-level policy for the IoT network, the policy input being compliant with the controlled policy function, and being received in a predetermined format that is not machine-enforceable at an enforcement entity of the IoT network; and based on the received controlled policy input, automatically or semi-automatically generates a machine-enforceable configuration by filling each of the refinement template, the machine-enforceable configuration including the one or more controlled policy functions and being compliant with the received controlled policy input.

(54) Title of the invention : MACHINE LEARNING BASED SYSTEM FOR CRIME DETECTION AND PREVENTION

<p>(51) International classification :H04N0007180000, G06N0020000000, H04N0005770000, G06T0007000000, G08B0021020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Nabamita Deb Address of Applicant :Assistant Professor, Department of Information Technology, Gauhati University, Assam, 781014 ----- ----- 2)Dr. S. Vimal 3)Dr. Sheshang Degadwala 4)Dr. M Kaliappan 5)Dr. Nandkishor Dinkarrao Gawhale 6)Mr. Sourabh Batar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Nabamita Deb Address of Applicant :Assistant Professor, Department of Information Technology, Gauhati University, Assam, 781014 ----- ----- 2)Dr. S. Vimal Address of Applicant :Associate Professor, Department of AI & DS, Ramco Institute of Technology, North Venganallur Village, Rajapalayam - 626117 Virudhunagar, Tamilnadu ----- ----- 3)Dr. Sheshang Degadwala Address of Applicant :Associate Professor , Sigma Institute of Engineering Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara, Gujarat - 390019, India ----- ----- 4)Dr. M Kaliappan Address of Applicant :Professor and Head, Dept. of Artificial Intelligence and Data Science, Ramco Institute of Technology, Rajapalayam-626117, Virudhunagar, Tamilnadu, India ----- ----- 5)Dr. Nandkishor Dinkarrao Gawhale Address of Applicant :Asha Colony Tapovan road, Amravati 444602 ----- ----- 6)Mr. Sourabh Batar Address of Applicant :Assistant Professor, College of Law and Legal Studies (Teerthanker Mahaaveer University), Moradabad ----- -----</p>
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(57) Abstract :

The present invention relates to a security system includes camera module integrated with lights for capturing live feed with high quality images, a centralized micro controller with processor for processing comprises an adaptive configuration for processing the live image stream using machine learning for crime detection, a networking system for communication between the ESP module and centralized controller and an siren based alarm system. After detecting the crime by analyzing the machine learning based enhanced images, algorithm is used for detecting the crime and upon detection the distress signal is send to the user, user selected neighbour and concerned security department along with activation of siren based alarm.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131056646 A

(19) INDIA

(22) Date of filing of Application :06/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A NOVEL APPROACH TO LOAD BALANCING AND CLOUD COMPUTING SECURITY USING SSL IN IAAS ENVIRONMENT

<p>(51) International classification :G06F0009500000, H04L0029080000, H04L0029060000, G06F0021550000, G06F0016245500</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Bholanath Mukhopadhyay Address of Applicant :Research Scholar, Computational Science, Brainware University, Kolkata, India -----</p> <p>2)Dr. Sonali Gupta 3)Ms. Savita Singh 4)Dr. Aniruddha Deka 5)Biswajit Nayak 6)Dr. Asif Ali Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Bholanath Mukhopadhyay Address of Applicant :Research Scholar, Computational Science, Brainware University, Kolkata, India -----</p> <p>2)Dr. Sonali Gupta Address of Applicant :Assistant Professor , Computer Engineering , J C Bose University of Science and Technology , Faridabad, Haryana -----</p> <p>3)Ms. Savita Singh Address of Applicant :Assistant Professor, BCA/MCA, Information Technology, Institute of Managment Studies, Noida, Uttar Pradesh, India-201301 -----</p> <p>4)Dr. Aniruddha Deka Address of Applicant :Asst. Prof. , Department of CSE, The Assam Royal Global University , Guwahati, 781032, Assam -----</p> <p>5)Biswajit Nayak Address of Applicant :Assistant Professor, Faculty of Management Studies, Sri Sri University, Cuttack-754006, Odisha, India. -----</p> <p>6)Dr. Asif Ali Address of Applicant :Senior Associate Professor, Department of Information Technology, Acropolis Institute of Technology and Research, Indore -----</p>
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(57) Abstract :

Cloud computing service providers (CCSP) are constantly at risk of suffering from performance loss. Cloud computing infrastructure allows users to rent computing resources at a fraction of the cost it would have otherwise taken to procure setup and maintain costly hardware and software systems. However, for a cloud computing service to stay relevant and enjoy the goodwill of its consumers, it needs to push the envelope of performance without sacrificing data security or vice versa. While Secure Socket Layer and related security algorithms have now come a long way since it was first introduced by Netscape very early on in the Internet age, there is a drawback that researchers have found associated with it. Performance degradation is a clear and present threat that cloud computing service providers are keen to avoid. In this paper, we present a proposed solution that is novel in its approach as we consider an existing commercial offering from F5, Inc., a renowned network equipment manufacturer, and incorporate its product – BIG-IP, into an experimental framework that promises to offer high availability, redundancy, load balancing and secure data channel simultaneously.

No. of Pages : 23 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131056937 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A NETWORKED MONITORING GARBAGE BIN FOR SMART CITY

<p>(51) International classification :B65F0001140000, B65F0001000000, G06Q0050260000, B65F0001160000, B65F0001120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Guru Nanak Institute of Technology Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MOLOY DHAR Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>2)SAYAN ROY CHAUDHURI Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p> <p>3)BIDYUTMALA SAHA Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p> <p>4)DR. SANTANU KUMAR SEN, Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p> <p>5)SUBHAJIT SANYAL Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p> <p>6)RAKTIM CHATTERJEE Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India -----</p>
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(57) Abstract :

The present invention relates to a networked monitoring garbage bin for smart city. More particularly, the present invention relates to the networked monitoring garbage bin for smart city wherein integrated garbage monitoring and collection system is synchronizing the garbage level in real time and send alert to the municipality where the bin is full based on exact coordinated traced back to the microprocessor IP. This invention relates to the networked monitoring garbage bin for smart city which allows the waste management to monitor based on the level of the garbage depth inside the dustbin. The present invention relates to the networked monitoring garbage bin for smart city having an advantages of the garbage recycling bin is reasonable in structure, the size of the garbage recycling bin can be rapidly, conveniently and flexible according to the requirements of users, parts of the garbage recycling bin can be simply and efficiently disassembled, assembled and replaced, the cruising ability is high, the practicability is high, and the garbage recycling bin is suitable for popularization.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057187 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A MULTI SLOTTED PATCH ANTENNA FOR WIRELESS APPLICATION

(51) International classification :H01Q0009040000, H01Q0021080000, H01Q0005364000, H01Q0021000000, H01Q0015140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a novel multi slotted patch antenna for wireless application. More particularly, the present invention relates to the multi slotted patch antenna for wireless application wherein a simple rectangular patch is operable at 2.1 GHz center frequency. This invention relates to the multi slotted patch antenna for wireless application wherein the multiple slots are introduced on the patch. The present invention relates to the multi slotted patch antenna for wireless application having an advantages of wide in working frequency band, small in size, simple and stable in structure and suitable for large-scale popularization and application.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057188 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM FOR MAINTAINING TRAFFIC RULES FOR ASSISTING THE DRIVERS

<p>(51) International classification :H04L0029060000, G08G0001096200, H04W0052320000, G08G0001017000, G08G0001160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Guru Nanak Institute of Technology Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Avali Banerjee Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>2)Ms. Antara Ghosal Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>3)Ms. Anurima Majumdar Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>4)Deepak Kumar Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>5)Mamata Singh Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p> <p>6)Atrayee Gayen Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India, -----</p>
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(57) Abstract :

The present invention relates to a system for maintaining traffic rules. More particularly, the present invention relates to the system for maintaining traffic rules for assisting the drivers. This invention relates to the system for maintaining traffic rules which will resolve the most common issues the vehicle drivers have to face on a day-to-day basis. The present invention relates to the system for maintaining traffic rules which will resolve the most common issues the vehicle drivers have to face on a day-to-day basis. The present invention relates to the system for maintaining traffic rules having an advantages of acquiring more effective information and facilitating determination on whether a traffic rule maintaining behavior of the driver exists.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057425 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MULTI WALLED CARBON NANOTUBE BASED PRESSURE SENSOR FOR ELECTRONIC SKIN AND METHOD OF FABRICATION OF PRESSURE SENSOR

(51) International classification :A61B0005020500, A61B0005000000, H01L0051440000, H01L0051420000, G01L0019000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention relates to a Pressure sensor for electronic skin and in particular, this invention relates to a Multi walled carbon nanotube based Pressure sensor for electronic skin. More particularly, this present invention relates to the Pressure sensor for electronic skin wherein both Polyindole and Polypyrrole have high redox property which could facilitate higher conductivity of the composite. This invention also relates to a method of fabrication of pressure sensor for electronic skin. Furthermore, this invention also relates to a Pressure sensor for electronic skin in which the sensitivity is high; the weight and the structure is simple and the cost is low, easy to operate and easy to popularize.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057430 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A GREEN METHOD FOR SYNTHESIS OF SILVER NANOPARTICLES

(51) International classification :A61K0036899000, B22F0001000000, B22F0009240000, C09D0011520000, B01J0013000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a green method for synthesis of silver nanoparticles. More particularly, the present invention relates to the green method for synthesis of silver nanoparticles from Couch grass (*Elymus repens*). This invention relates to the green method for synthesis of silver nanoparticles because as they contain various organic functional molecules that may act as reducing and capping agents during interaction with metal salts. The present invention relates to the green method for synthesis of silver nanoparticles having a advantages of the generated silver nanoparticles are high in safety, strong in stability, good in dispersibility and uniform in particle size.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : SINGLE PHASE TRANSFORMERLESS GRID CONNECTED SOLAR PHOTOVOLTAIC (PV) SYSTEM WITH AUTO-SYNCHRONIZER

<p>(51) International classification :H02J0003380000, F03D0001040000, H02J0007350000, F03G0007000000, F03G0006040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Guru Nanak Institute of Technology Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Priyanka Dutta, Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114, West Bengal, INDIA -----</p> <p>2)Dr. Debasree Saha Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p> <p>3)Ms. Madhumita Chakraborty Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p> <p>4)Mr. Amit Debnath Address of Applicant :Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, INDIA -----</p>
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(57) Abstract :

The ancestral or the pre-existing method of energy generation leads to tremendous global warming and air pollution. The key to combat these climatic changes lies in the uses of renewable sources of energy. Solar energy is one such example of renewable source of energy. Though the demand of solar energy is at its peak but the method used for generation of power from it is not up to the mark and has several snags. This paper helps to overcome some of the drawbacks of generating power through solar energy in a more convenient way. In this paper we have exhibited a circuit in which the DC power would be converted into AC in stepped up form. This circuit contradicts the in used method of power transformation which would require several intermediate steps and a transformer, thus making it to be more economical and simpler way of power generation. In this project the inverter that is used is advanced form of H-bridge inverter made of four MOSFETs. The triggering of these MOSFETs is controlled by pulse generator and a NOT gate. The voltage is stepped up by the help of capacitor and then fed to the grid through auto synchronizer so that the frequency can be maintained as per the IE rule.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND IOT BASED INTELLIGENT AUTOMATION (HOME) USING WI-FI AND ANDROID APPLICATIONS

<p>(51) International classification :H04L0012280000, G05B0015020000, H04L0029080000, G05B0019418000, H04W0012060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kumar Amrendra Address of Applicant :Research Scholar Jharkhand Rai University, Kamre, Ranchi, 835222, Jharkhand, India ----- 2)Anuradha sharma 3)NITHIYANANTHAN KANNAN 4)Dr. Mirza Tanweer Ahmad Beig 5)MR. YOGESHKUMAR 6)Sachin Lalar 7)Dr.OBULA.KOTESWARARAO 8)Dr.R.Rajkumar 9)Dr. Ruby Singh 10)Dr. Brijesh Sathian 11)Dr. Ravi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Kumar Amrendra Address of Applicant :Research Scholar Jharkhand Rai University, Kamre, Ranchi, 835222, Jharkhand, India ----- 2)Anuradha sharma Address of Applicant :Assistant Professor Jharkhand Rai University, Ranchi Flat 3A/B.Block A,Ramdeo Vihar, Near Gate No.4 Ashok Nagar Ranchi Jharkhand 834002 ----- 3)NITHIYANANTHAN KANNAN Address of Applicant :PROFESSOR DEPARTMENT OF ELECTRICAL ENGINEERING, FACULTY OF ENGINEERING,RABIGH KING ABDULAZIZ UNIVERSITY, JEDDAH, SAUDI ARABIA ----- 4)Dr. Mirza Tanweer Ahmad Beig Address of Applicant :Assistant Professor Faculty of Science (FOSC) SGT University, Gurugram-122505, Haryana, India. ----- 5)MR. YOGESHKUMAR Address of Applicant :JETHABHAI PATEL ASSISTANT PROFESSOR SHRI C.J. PATEL COLLEGE OF COMPUTER STUDIES, SANKALCHAND PATEL UNIVERSITY,VISNAGAR MEHSANA,GUJARAT,INDIA ----- 6)Sachin Lalar Address of Applicant :Assistant Professor, Department of Computer Science and Applications, Kurukshetra University , Kurukshetra, Haaryana, India ----- 7)Dr.OBULA.KOTESWARARAO Address of Applicant :PRINCIPAL JAWAHAR LAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR North rajupalem ,Kodavaluru Nellore , 524366, Andhra Pradesh, India ----- 8)Dr.R.Rajkumar Address of Applicant :Professor Siddhartha Institute of Science and Technology , Siddarth Nagar, Narayananam Road, Puttur- -517583, Chittoor District, A.P. (India) ----- 9)Dr. Ruby Singh Address of Applicant :Assistant Professor, SRM IST NCR Campus, Modinagar, Ghaziabad-201204, Uttar Pradesh, India ----- 10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar ----- 11)Dr. Ravi Address of Applicant :Assistant Professor Electrical Engineering Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonipat, Haryana, 131001, Haryana, India. -----</p>
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(57) Abstract :
The ultimate goal of home automation systems is to be able to control the entire house. This investigation will look at how to get there. Smart devices can run independently and interact with one another, giving people more control over their appliances and making them more efficient. This method of creating smart home automation systems can be used. It consists of both software and hardware. You can control all of your home appliances from anywhere in the world if you have a Wi-Fi connection. This paper will discuss an Internet of Things-based smart home automation system that allows you to do just that. This paper describes technology that allows people to control their homes via text messages. It also discusses how home automation technology was researched and used (SMS). In this example, an Android phone is used to send commands to the Arduino, which then controls all of the electricity in the house. We can control how much energy our home uses with an Android phone, such as how fast the fan runs based on the temperature and how bright the lights are. We can also use this phone to boost the power of our home's appliances. As a result, IoT is being used to make homes smarter.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : A SWITCHED CAPACITOR BASED MULTILEVEL INVERTER

(57) Abstract :

The present invention provides a switched capacitor based multilevel inverter comprising a boost converter, plurality of active networks, plurality of capacitors, plurality of switches, wherein, the boost converter is for feeding power to the active networks and the active networks comprise of the capacitors for enabling a voltage boosting, the boost converter is interfaced in an input side of the active network which helps to provide soft charging of the capacitors for reducing eventual damages in the inventor and increasing in reliability of the inventor and the switches helps to receive an output of the active networks by helps of plurality of bridges, thereby producing a multi-level output, the inventor includes an inductor in a charging loop for reducing an issue of inrush current.

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : A MULTILEVEL SWITCHED CAPACITOR BASED INVERTER WITHREDUCED COMPONENTS

(51) International classification :H02M0003070000, H02M0007483000, H03H0019000000, H02M0007539000, H02M0007493000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention provides a multilevel switched capacitor based inverter (100), comprising, a boost converter, plurality of active networks, plurality of capacitors (8, 9), plurality of switches (1,2,3,4,5,6,7), wherein, the capacitors (8, 9) are self-balanced charging and discharging capacitors (8, 9) that reduces complexity of the inverter (100), the switches (1,2,3,4,5,6,7) are operated in a fundamental frequency; and the inverter (100) has seven-levels with a self-voltage balancing protocol of switched-capacitor which boosts an output voltage in range from 1 to 1.5 times of a source voltage and achieves a lower total standing voltage (TSV), which make the inverter (100) suitable for high voltage applications.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : BULWARK: AN ARGO SOLUTION

(51) International classification :G06Q0010040000, G06Q0050020000, A01D0041127000, G06Q0010060000, G06Q0030020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 A crop management system (100) comprising an authentication module (120) configured to authenticate a user by using Identification data received from a user using a user device (102); a yield prediction module (122) configured to predict a yield of a crop by comparing a past crop yield data with present yield data stored in a database (116); a disease detection module (124) configured to determine disease in the crop using an image processing technique; a price prediction module (126) configured to predict the crop price, nearby trends of market of crops and also forecast the price of nearby future of the same crops; an output module (128) configured to display one of, the yield of the crop, disease on the crop, the price of the crop, or a combination thereof.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131059481 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR PRODUCING A COMPOSITE DIELECTRIC COMPONENT

(51) International classification :C04B0035462000, C04B0035626000, H05K0001030000, H05K0001020000, C04B0035470000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A method for producing a composite dielectric component is disclosed. The method includes mixing a dielectric component with another element by substituting a part of the dielectric with the other element by a proportion. A weight of the dielectric component and the other element is calculated prior to mixing. The method includes performing a calcination process on a new component generated by substituting the other component upon sieving the new component post production.. The method includes milling the new component in response to performing the calcination. The method includes sintering the new component to generate the composite dielectric component upon granulation of the new component. The granulation is followed by pressing of the new component.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131059500 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM FOR ENSURING PROTECTION FROM EAVESDROPPING IN COGNITIVE RADIO NETWORK USING UNMANNED AERIAL VEHICLE (UAV)

(51) International classification :B64C0039020000, H04K0003000000, B64D0047080000, H02J0050200000, G05D0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (100) for ensuring protection from eavesdropping in a secure and sustainable energy harvesting based cognitive radio network, the system (100) comprising an unmanned aerial vehicle (UAV) (102) configured to generate a jamming signal, wherein the UAV (102) comprises a harvester circuit (104) configured to perform energy harvesting from a radio frequency signal of a primary user (PU) and a primary user emulation attack (PUEA).

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131059534 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR SYNTHESIZING AMINO ACID BASED VESICLES FOR DRUG DELIVERY

<p>(51) International classification :C12N0015880000, A61K0009127000, C08G0069080000, C08G0069100000, C07D0207160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)C. V. Raman Global University Address of Applicant :Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Gulmi Chakraborty Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- ----- 2)Swapan K. Saha Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- ----- 3)Soumik Bardhan Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- -----</p>
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(57) Abstract :

A method for preparing amino acid ester based green vesicles (100) for drug delivery. The method includes: preparing amino-acid esters in the laboratory (101). The amino-acid esters are exposed to aqueous medium (102). The amino acid esters include hydrophilic head and hydrophobic tail, where the hydrophilic head of the amino acid ester is interacted with the aqueous medium and later contracted the hydrophobic tail inside to reduce exposure to the aqueous medium (103). The hydrophobic tail is burned inside bilayer and then subjected the hydrophilic head forms the interior and exterior portions to the aqueous medium (104) to obtain product.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060733 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : LEVITATION BASED ELECTRO MAGNETIC QUANTUM WHEEL

(51) International classification :F16C0032040000, H04R0009060000, H02N0015000000, H02K0007090000, H02K0053000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A levitating wheel (100) for automobiles, the levitating wheel (100) comprising: a first magnet ring (102) of circular shape, wherein the first magnet ring (102) have a dual polarity; a second magnet ring (104) of circular shape, wherein the second magnet ring (104) has a dual polarity; a third magnet ring (106) of circular shape, wherein the third magnet ring (106) have a dual polarity; and a fourth magnet ring (108) floating over the second magnet ring (104), wherein the fourth magnet ring (108) is attached to the levitating wheel (100) of the automobile.

No. of Pages : 16 No. of Claims : 9

(54) Title of the invention : METHOD FOR IMPLEMENTING A TRANSISTOR AS A LIGHT-STIMULATED SYNAPTIC DEVICE

<p>(51) International classification :H01L0021280000, H01L0029510000, G11C0011220000, H01L0029792000, H01L0029780000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)C. V. Raman Global University Address of Applicant :Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Dhrubojyoti Roy Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----</p> <p>2)Dr. Mohua Chakraborty Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----</p> <p>3)Dr. Partho Sarathi Gooh Pattader Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----</p> <p>4)Prof. Dipankar Bandyopadhyay Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----</p>
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(57) Abstract :

A method for implementing a transistor as a Light-stimulated synaptic device is disclosed. The method includes receiving, at the transistor, a synaptic light as an input and generating a postsynaptic response is FET drain current. The method includes modulating a synaptic weight through a light-introduced and P(VDF-TrFE) assisted holes de-trapping and trapping processes at the semiconductor-dielectric interface. The synaptic weight is a variation in conductivity keeping an operating condition of the FeFET device similar. The method includes generating a peak value in response to receiving the input and gradually decaying the peak value towards an initial current value. The method includes filling charge trap states at the DNTT/P(VDF-TrFE) based on generation of electron-hole pairs eventuate in a transistor channel region.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060762 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR ATTAINING EDUCATIONAL OUTCOME

<p>(51) International classification :G09B0007000000, G06Q0010060000, G06Q0050200000, E21B0047000000, B29C0037000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)C. V. Raman Global University Address of Applicant :Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Dillip Kumar Biswal Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- ----- 2)Dr. Bikash Ranjan Moharana Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- ----- 3)Dr. Manoj Kumar Gopaliya Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 ----- -----</p>
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(57) Abstract :

The present invention relates to a method for attaining a plurality of outcomes. The method comprising: assessing a plurality of assessment parameters by utilizing a plurality of tools. The method also including evaluating by performing techniques such as, but not limited to, a continuous internal evaluation (CIE) technique, an End Semester evaluation (ESE) technique, and so forth. The continuous internal evaluation (CIE) technique including a surprise test, a mid-term assessment, an experiential learning assessment, an assignment, and so forth.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060763 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR DESIGNING ISO-INDIGO BASED SMALLMOLECULES FOR LIGHT EMITTING DEVICES

(51) International classification :H01L0033000000, G01N0021840000, H01L0021020000, G01N0021640000, C12Q0001680000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(72)Name of Inventor :

1)Dr. Srinita Sonalin

Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----

(57) Abstract :

A method for designing iso-indigo based small molecules for light emitting diodes. The method (140) includes: preparing iso-indigo derivative using satin as a raw material (141), then introducing spacers in the structure of derivative and later functionalizing the derivative by C-H activation and N-arylation in order to obtain functionalized molecules (142). The obtained functionalized molecules are subjected to recrystallization process (143) and then characterized the recrystallized molecules using different techniques (144) and later optimized binary solution system to obtain molecular aggregates (145).

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060767 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR FABRICATING SPACER LINKED ISO-INDIGO BASED SMALL MOLECULE ORGANIC FIELD EFFECT TRANSISTOR

(51) International classification :H01L0051050000, H01L0051000000, C07D0495040000, C30B0029540000, G01N0021840000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)C. V. Raman Global University

Address of Applicant :Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Srinita Sonalin

Address of Applicant :C. V. Raman Global University, Address: Bidyanagar, Mahura, Janla, Bhubaneswar, Odisha 752054 -----

(57) Abstract :

A method for fabricating spacer linked iso-indigo based small molecule organic field effect transistor. The device comprises a substrate, gate electrode, insulating layer on the gate, blending layer and organic semiconductor layer is preferably small molecule derivative of iso-indigo. The method includes: preparing iso-indigo derivative using satin as a raw material (141), then introducing spacers in the structure of derivative and later functionalizing the derivative by C-H activation and N-arylation in order to obtain functionalized molecules (142). The obtained functionalized molecules are subjected to recrystallization process using different techniques (143) and then characterized the recrystallized molecules using different techniques (144) and later optimized binary solution system for solution processing of active layer to obtain homogenous and continuous film (145), annealing and casting electrodes and characterizing the device (146).

No. of Pages : 16 No. of Claims : 8

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917001221 A

(19) INDIA

(22) Date of filing of Application :10/01/2019

(43) Publication Date : 07/01/2022

(54) Title of the invention : HANDLE FOR A RAZOR

(51) International classification	:B26B0021520000, B26B0021400000, A45D0027220000, B26B0021440000, B26B0021120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/US2017/045030
Filing Date	:02/08/2017
(87) International Publication No	:WO/2018/031325
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)THE GILLETTE COMPANY LLC

Address of Applicant :One Gillette Park Boston,
Massachusetts 02127, U.S.A. U.S.A.

(72)Name of Inventor :

1)LU, Hong

2)WITKUS, Stephen, Charles

3)FORTI, Alexander, Stephen

4)GONG, Huibin

(57) Abstract :

A handle for a razor cartridge is provided.

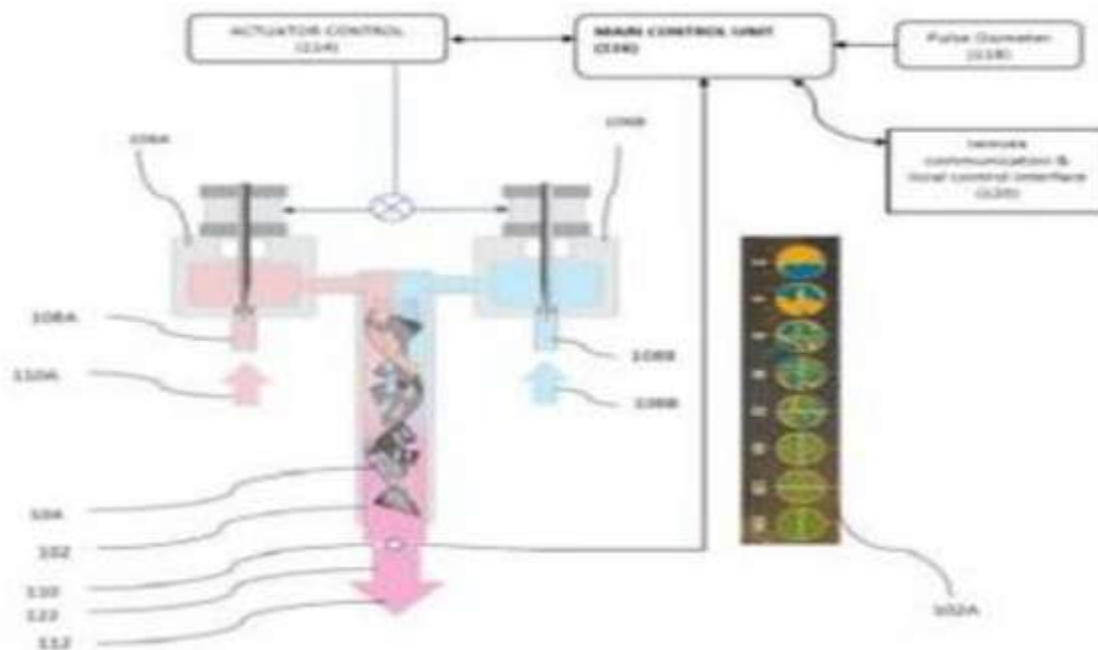
No. of Pages : 30 No. of Claims : 15

(54) Title of the invention : DYNAMIC AIR AND OXYGEN BLENDER FOR VENTILATORS AND SYSTEMS THEREOF

(51) International classification	:A47J0043070000, A61M0016120000, B01F0015000000, B02C0019060000, C08F0110020000	(71)Name of Applicant : 1)Renu Sharma Address of Applicant :Flat No. 211, Shriniketan CGHS Ltd, Plot No 1, Sector 7, Dwarka, New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Renu Sharma
(32) Priority Date	:NA	2)Dinesh Kumar
(33) Name of priority country	:NA	3)Avijit Bansal
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system for blending air and oxygen for ventilator consist of a static mixture 102 connected with an air supply 110A and an oxygen supply 110B controlled by a couple of actuators 106A and 106B, an actuator control 114 coupled to each of said actuators 106A and 106B to control a flow of inlet air and oxygen from said air supply 110A and said oxygen supply 110B respectively, a helical element 104 mounted inside said static mixture 102 to mix air and oxygen from said air supply 110A and said oxygen supply 110B, a main control unit 116 connected with said actuator control 114 to maintain a flow of air and oxygen from said air supply 110A and said oxygen supply 110B, a mix flow sensor 122 mounted at an outlet 112 of said static mixer 102 to regulate air and oxygen levels in real time, and an FiO2 sensor 110 mounted at said outlet 112 of said static mixer 102 to regulate air and oxygen levels in real time.



No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011014963 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A DEVICE TO RETARD GROWTH OF MICROBES AND A METHOD THEREOF

(51) International classification	:F21Y0115100000, B60W0010080000, B60W0020000000, H05B0045000000, H05B0045370000	(71)Name of Applicant : 1)RENU SHARMA Address of Applicant :Flat No. 211, Shriniketan CGHS Ltd Plot No 1, Sector 7, Dwarka Delhi New Delhi India Delhi India 2)DINESH KUMAR
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)RENU SHARMA
(33) Name of priority country	:NA	2)DINESH KUMAR
(86) International Application No	:NA	3)BOBBY JOHN
Filing Date	:NA	4)NIRMAL JOHN
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a device 100, which includes the input unit 110, which is further connected to a battery unit 120 and a solid state LED lamp array assembly 130. Furthermore, the battery unit 120 is connected to the solid state LED lamp array assembly 130. Additionally, the solid state LED lamp array assembly 130 is connected to a database module 140.



No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023511 A

(19) INDIA

(22) Date of filing of Application :04/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : ANTIMICROBIAL LOTION FORMULATION

(51) International classification	:C09D0005140000, A01N0059160000, A01N0059200000, A61K0008190000, A61K0033380000	(71) Name of Applicant : 1)Clensta International Private Limited Address of Applicant :9, 4th Floor, BBIF, Synergy Building, IIT Delhi, Hauz Khas, New Delhi - 110016, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Vinay
(33) Name of priority country	:NA	2)ANJANKAR, Shefali
(86) International Application No	:NA	3)GUPTA, Puneet Kumar
Filing Date	:NA	4)RATHORE, Anurag Singh
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an antimicrobial lotion formulation having antibacterial, antifungal and antiviral properties. The formulation comprises a triplet complex of biosurfactant, citric acid and silver nanoparticles and is effective against drug resistant bacteria and novel viruses including enveloped SARS-CoV-2. A process of preparing an antimicrobial lotion formulation as disclosed herein is also provided.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027699 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR DYNAMIC CONTENT GENERATION AND DEVICE THEREOF

(51) International classification	:G06F0016958000, G06T0007269000, G06F0016732000, G06F0016957000, B01F0003040000	(71) Name of Applicant : 1)HIKE PRIVATE LIMITED Address of Applicant :4th Floor, Indira Gandhi International Airport, Worldmark 1, Northern Access Rd, Aerocity, New Delhi, Delhi 110037, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ankur Narang
(33) Name of priority country	:NA	2)Anshuman Misra
(86) International Application No	:NA	3)Dipankar Sarkar
Filing Date	:NA	4)Kavin Bharti Mittal
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and device for dynamically generating virtual content for a user is disclosed. The device comprises memory to store one or more user activities and one or more emotional state of the user. The device comprises one or more processor coupled to the memory to analyse the one or more user activities and detect one or more elements from the analysed one or more user activities. The one or more processors may be configured to detect the one or more emotional state of the user from the user activities and correlate the emotional state with respect to the detected one or more elements with corresponding user activity. The device is further configured to dynamically generate one or more virtual content depicting varied contextual emotional state.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027706 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : PACKET DUMP UTILITY IN A MOBILE APPLICATION FOR EFFICIENT TROUBLESHOOTING

(51) International classification	:H04W0024080000, G06F0011360000, H04W0004020000, H04M0003220000, H04W0024040000	(71) Name of Applicant : 1)ZScaler,Inc. Address of Applicant :120 Holger Way, San Jose, CA 95134, USA U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Gupta Rishabh
(33) Name of priority country	:NA	2)Goyal Rohit
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods include providing functionality for a user device while operating in background on the user device; responsive to a user request, starting collection of packets intercepted by the enterprise application; storing the collected packets on the user device; receiving a selection from the user of an issue type of a plurality of issue types for an issue; and providing the issue type and the collected packets for debugging of the issue type. The systems and methods can further include transmitting the collected data and the collected packets to a back end server for troubleshooting of the issue.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027709 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : REWET TEST APPARATUS FOR DISPOSABLE HYGIENE PRODUCTS

(51) International classification	:A61F0013150000, A61F0013530000, A61F0013511000, A61L0015600000, A61F0013513000	(71) Name of Applicant : 1)Dr B R Ambedkar National Institute of Technology Jalandhar Address of Applicant :Dr B R Ambedkar National Institute of Technology Jalandhar, GT Road Bye Pass Jalandhar Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Monica Sikka
(33) Name of priority country	:NA	2)Dr Vinay Midha
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Rewet is the amount of wetness returned to the surface of the hygiene disposable product onto an absorbent filter paper. It is generally the wetness felt by the wearer while in use. The present invention relates to a simulated rewet tester for hygiene articles. An attempt has been made to fabricate the tester in a simulated set-up and in an economically viable way. The tester comprises of two curved surfaces between which the hygiene article is sandwiched and a pressure is applied using the pneumatic pressure arrangement. A sensor, which is connected to a microcontroller senses the moisture. All the arrangement is connected to a computer to display the readings.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027711 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : CASE FOR A VEHICULAR JACK WITH A SETTING PIECE

(51) International classification	:B66F0003120000, A61B0005000000, E04F0015100000, A47B0057040000, B66F0003000000	(71) Name of Applicant : 1)HYUNDAI MOTOR COMPANY Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea 2)KIA MOTORS CORPORATION
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GURUPACKIAM, Lakshmanaraj
(33) Name of priority country	:NA	2)PRASANNA VENKATESAN, Raghavendra
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a covering in the form of brackets fixed to the tips of the rhombic base of the jack case, such brackets not intersecting each other at any point in a manner that there is sufficient space between the bracket covering and the base to fit a setting piece in the form of a one-piece attachment with a spine having a slot between the projections on either end of the spine, a tip with two elongated arms and curved base with two elongated arms, such that the tip and curved base of the setting piece are holding the top and bottom of a vehicle jack in a manner that the hooks on the brackets along the vertical plane are engaged with the projections on either end of the spine of the setting piece and the elastic or plastic strings on the left and right brackets along the horizontal plane restrain the setting piece and vehicle jack assembly in place by engaging with the hooks in the slot on the spine of the setting piece.

No. of Pages : 19 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027720 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN INTEGRATED EVAPORATOR APPARATUS IN A REFRIGERATION CYCLE

(51) International classification	:F25B0043000000, F25B0031000000, F25B0009000000, F25B0039020000, F25B0001100000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Singh Amit Kumar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[0030] An integrated evaporator (108) apparatus in a refrigeration system is provided. The apparatus comprises a phase separator (202) configured to separate liquid refrigerant and gaseous refrigerant from a refrigerant mixture and an accumulator (204) to store the separated liquid refrigerant. The phase separator (202) and the accumulator (204) are integrated with the evaporator (108), the liquid refrigerant flows through the evaporator (108) via the accumulator (204) and the gaseous refrigerant flows to a compressor (102). The accumulated liquid refrigerant in the accumulator (204) is utilized by the evaporator (108) when the heat load reaches a predetermined level.

No. of Pages : 18 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027737 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : DEVELOPERS LOAD SENSITIVE AND EXPERTISE BASED SOFTWARE BUGS TRIAGING

(51) International classification	:G06Q0010060000, G06F0011360000, G06Q0050060000, B60T0008180000, H04W0008240000	(71) Name of Applicant : 1)Jaypee Institute of Information Technology (JIIT) Address of Applicant :A-10, Sector 62, Noida- 201309, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Asmita Yadav
(33) Name of priority country	:NA	2)Dr. Sandeep Kumar Singh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A developers load sensitive and expertise based software bugs triaging that resolves the issue of assigning bugs to developers taking into account their due work engagement, expertise as well as current state of activity by collective measure that assign bugs based on (a) Work Engagement (b) Work Experience (c) Technical Expertise (d) Current State.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027833 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : GIMBAL FAN ASSEMBLY

(51) International classification	:G01S0007481000, G02B0006293000, F04D00025080000, G05G0009047000, H04W0056000000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Srivastava Manas
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[0091] A gimbal fan assembly (100) for facilitating circulation of air along plurality of axis is provided. The gimbal fan assembly (100) includes a mounting hub (102) configured to mount the gimbal fan assembly (100) to a fixed surface and a first ring (104), a second ring (106) and a third ring (108) mounted on the mounting hub (102) and moveably coupled to each other for rotation along plurality of axis. The gimbal fan assembly (100) also includes a fan assembly (110) coupled to the third ring (108) and configured to be oriented along plurality of angles. Rotation of the first ring (104), the second ring (106) and the third ring (108) along the plurality of axis enables the orientation of the fan assembly (110) along the plurality of angles for facilitating the circulation of air along the plurality of axis.

No. of Pages : 46 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027838 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN AIR PURIFICATION DEVICE

(51) International classification	:F24F0003160000, A61M0016080000, A61L0009220000, A61L0009120000, F24F0013140000	(71) Name of Applicant : 1)Indian Institute of Technology Delhi Address of Applicant :Indian Institute of Technology Delhi, Hauz Khas, New Delhi- 110016, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DAS, Dipayan
(33) Name of priority country	:NA	2)SINGHAL, Khushank
(86) International Application No	:NA	3)MISHRA, Sumakesh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An air purification device is disclosed. The air purification device includes a housing assembly having a first member adapted to allow ingress of airflow into the housing assembly and a second member adapted to be coupled to the first member and to allow egress of the airflow from the housing assembly. Further, the air purification device includes an air propelling unit disposed in the housing assembly and is adapted to draw the airflow through the first member and expels the airflow through the second member. The air purification device includes a filter element disposed at the first member and adapted to purify the airflow entering into the housing assembly through the first member. Further, the air purification device includes a controlling unit in communication with the air propelling unit and adapted to control the air propelling unit based on a rate of the airflow entering into the housing assembly.

No. of Pages : 33 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027842 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN AUTONOMOUS SPRINKLER SYSTEM AND A METHOD FOR IRRIGATION IN A FIELD

(51) International classification	:A01G0025160000, A01M0007000000, G05D0001020000, A61B0005021000, A01G0025090000	(71) Name of Applicant : 1)National Institute of Technology, Kurukshetra Address of Applicant :National Institute of Technology Kurukshetra, Kurukshetra-136119, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GOEL, Arun
(33) Name of priority country	:NA	2)CHAHHEL, Rahul
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An autonomous sprinkler system for irrigation in a field is disclosed. The autonomous sprinkler system includes a plurality of sensors disposed at a plurality of locations in the field. Each of the plurality of sensors is adapted to measure an amount of water content associated with a location from among the plurality of locations. The autonomous sprinkler system may include a controlling unit configured to receive information indicative of the amount of water content associated with each of the plurality of locations from each of the plurality of sensors. The controlling unit is configured to obtain a first set of data associated with a plurality of environmental factors and a second set of data associated with plantation in the field. The controlling unit is configured to determine at least one portion of the field to be irrigated based on the amount of water content, the first set of data, and the second set of data. Further, the controlling unit is configured to actuate at least one sprinkler disposed in vicinity of the determined portion of the field.

No. of Pages : 38 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027883 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR GENERATING AN ANIMATED VIDEO AND SYSTEM THEREOF

(51) International classification :G06T0013800000,
G06T0013000000,
G10L0013000000,
G09F0019180000,
G03B0021200000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)HIKE PRIVATE LIMITED
Address of Applicant :4th Floor, Indira Gandhi International
Airport, Worldmark 1, Northern Access Rd, Aerocity, New Delhi,
Delhi 110037, India Delhi India

(72)**Name of Inventor :**
1)Srishti Goel
2)Neeraj Kumar
3)Ankur Narang
4)Kavin Bharti Mittal

(57) Abstract :

The present disclosure relates to a method comprising receiving source data from a user. The source data comprises user voice data and one or more parameters related a target voice. The method further comprises modulating the user voice data based on the one or more parameters related to the target voice. The method further comprises synchronizing the modulated user voice data over an animated representation of the user. The method also comprises generating a background based on the modulated voice data and generating a video using the synchronized animated representation and the background.

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027903 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : ESSENTIAL OIL OF CYMBOPOGON CITRATUS AS BIOAVAILABILITY ENHANCER OF FLUCONAZOLE AND AMPHOTERICIN B AGAINST CANDIDA INFECTIONS

(51) International classification	:A61K0031704800, C07K0014400000, A61K0036899000, A61K0031015000, A01N0027000000	(71) Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN- 173229 (H.P) Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DEEKSHA SALARIA
(33) Name of priority country	:NA	2)Er. RAJAN ROLTA
(86) International Application No	:NA	3)Dr. VIKAS KUMAR
Filing Date	:NA	4)Prof. KAMAL DEV
(87) International Publication No	: NA	5)Prof. ANURADHA SOURIRAJAN
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates antifungal and synergistic potential of essential oil of Cymbopogon citratus and its one of the compounds (Limonene) in combination with antifungal antibiotics (fluconazole and amphotericin B). Extraction of essential oil was performed with hydro distillation method. The invention discloses that essential oil of C. citratus has 13 phytocompounds, out of which 3,7-Nonadien-2-one, 8-methyl- (27.28%), a-Pinene (15.60%), Limonene (4.88%) and Citral (4.87%) were present as major phytocompounds. Essential oil of C. citratus and limonene showed the good antifungal activity against Candida albicans (MTCC277 and ATCC90028) by agar well diffusion method and broth dilution method. Essential oil of C. citratus and Limonene showed complete cell death against Candida strains (fungicidal activity). Moreover, essential oil of C. citratus and limonene also showed enhancement of antifungal activity against Candida albicans (MTCC277 and ATCC90028) in combination with fluconazole and amphotericin B. Synergistic activity against fungal strains with fluconazole and amphotericin B as shown by FIC index. Therefore, this combination approach can be used to formulate new antifungal drugs to increase the efficacy and reduce dosage and time to treat Candida infections.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027915 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : FOG LAMP ASSEMBLY

(51) International classification	:B60Q0001200000, F21W0102300000, F21W0103400000, B60Q0001068000, F21S0041147000	(71) Name of Applicant : 1)MINDA INDUSTRIES LIMITED, 4W Lighting Division Address of Applicant :Vill. Naharpur Kasan, P.O. Nakhrola, Manesar, Distt. Gurgaon 122050, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)C.S. Singh
(33) Name of priority country	:NA	2)Amit Kumar Srivastava
(86) International Application No	:NA	3)Anubhav Garg
Filing Date	:NA	4)Manish Tewari
(87) International Publication No	: NA	5)Shankar Lal Yadav
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The fog lamp (100) comprises a light source comprising a plurality of LEDs(110), a reflector (120), a lens (130) and a socket (140). The lens (2) positioned at front 5 of the reflector (100) adapted to distribute the light reflected from the reflector (120). The socket comprises the light source (110). The socket (140) also comprises a pair of connection terminals and is in connection with an external power source. The plurality of LEDs (110) are arranged in a manner to keep the LED illuminating area gap between LEDs very small. The light source is disposed 10 at the focal point on the central axis of parabolic reflecting surface of the reflector (120). Due to smaller gap between LEDs, light beam emitted from the LEDs merge to ensure sufficient illumination for enhanced safety on road.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027921 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : SOLAR DISTILLATION APPARATUS

(51) International classification	:C02F0001140000, B01D0001000000, B60S0003000000, C02F0001180000, A01G0009033000	(71) Name of Applicant : 1)BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE (BITS), PILANI Address of Applicant :Birla Institute of Technology & Science (BITS), Pilani, Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sandip Shridharrao Deshmukh
(33) Name of priority country	:NA	2)Vikrant Pradip Katekar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is an apparatus for the distillation of contaminated water. The apparatus comprising (i) a feed tank for holding contaminated water, (ii) a container comprising a plurality of sidewalls and a bottom wall and an opening (iii) a plurality of solar absorber panel placed along the length of a bottom surface of the container at different heights; (iv) pitched roof element disposed over the opening of the container which preferably is formed of glass (v) a distil water collecting trough disposed at the base of the pitched roof element to collect and carry water that has condensed on the pitched roof element and which flows down the pitched roof element under the force of gravity; (vi) an excess contaminated water storage tank placed adjacent to distil water collecting trough to drain contaminated water.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027958 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : SINGLE STRANDED NUCLEIC ACID APTAMERS DEVELOPED AGAINST YERSINIA ENTEROCOLITICA AND METHODS THEREOF

(51) International classification	:C12N0015115000, C12N0015100000, C12Q0001681100, C07H0021000000, G01N0033530000	(71) Name of Applicant : 1)Dr. GAURAV PARASHAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWER (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA, INDIA Haryana India
(31) Priority Document No	:NA	2)RAVINDER ROZERA
(32) Priority Date	:NA	3)Dr. NIDARSHANA CHATURVEDI PARASHAR
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Dr. GAURAV PARASHAR
Filing Date	:NA	2)RAVINDER ROZERA
(87) International Publication No	: NA	3)Dr. NIDARSHANA CHATURVEDI PARASHAR
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to two single-stranded nucleic acid aptamers specifically isolated and enriched against Yersinia enterocolitica, using temperature guided enrichment and whole cell SELEX method for theranostics application. Real time PCR was also utilised for identifying the subset population of specific binding DNA aptamer molecule. Melting curve analysis suggested a melting temperature shift in the enriched molecule from 83.7°C to 87.8°C. The change in melting temperature of enriched molecule towards the higher range suggest the possible efficiency and characteristics of temperature- based SELEX protocol. PCR product obtained with enriched single stranded DNA molecule at 70°C and 80°C were successfully sequenced. The obtained DNA sequences of Y70 and Y80 were further analysed for identifying the random region of aptamer sequence by utilising clustal omega, BLAST and oligo calculator. The aptamers of the present disclosure may be utilized in an assay, a kit or sensor for diagnostics of Yersinia enterocolitica present in environment, foods, refrigerated and packed food products and clinical samples

No. of Pages : 26 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027994 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A MOUNTING STRUCTURE FOR HOLDING A WHEEL SPEED SENSOR HARNESS AND CONNECTOR

(51) International classification	:F28D0015020000, G01P0001020000, H01R0012570000, G01D0011240000, B60R0021217000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SAURABH GARG
(33) Name of priority country	:NA	2)PIYUSH YADAV
(86) International Application No	:NA	3)VIVEK KUMAR SHARMA
Filing Date	:NA	4)SUNDEEP SINGHAL
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The subject matter of the present invention discloses a mounting structure (300) for holding a rear wheel speed sensor harness (702) and connector (704). The mounting structure (300) comprises a base plate (302), an upper leg (304) extending from a first side (324) of the base plate (302) and a lower leg (306) extending from the first side (324) of the base plate (302). The lower leg (306) extends in a direction opposite to the upper leg (304).

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028012 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A HEAT SHIELD TILE AND A METHOD FOR FORMING THE SAME

(51) International classification	:A61K0008340000, E04F0015100000, B32B0027360000, B32B0027180000, F23R0003000000	(71) Name of Applicant : 1)Girish Mahajan Address of Applicant :House no 2, SKM homes, Gokuldham society, Peermuchalla, Zirakpur, Mohali, Punjab, 140603 Punjab India
(31) Priority Document No	:NA	2)Taniya Garg
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Girish Mahajan
(86) International Application No	:NA	2)Taniya Garg
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a heat shield tile (100) including a plurality of first layers (102) of a first mixture, each one of the first layers (102) having a cloth (108) sandwiched between the first layers (102). The first mixture is a mixture of an adhesive, Sodium Fluoride with triclosan, and water. Further, the heat shield tile (100) includes a plurality of second layers (104) of a second mixture sandwiching the plurality of first layers (102). The second mixture is a mixture of an adhesive and Sodium Fluoride with triclosan. The heat shield tile (100) further includes a plurality of third layers (106) of a third mixture sandwiching the plurality of second layers (104), and thereby forming the heat shield tile (100).

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028015 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : BUCKLING RESTRAINED BRACING ASSEMBLY

(51) International classification	:E04H0009020000, G01R0001073000, E04C0003020000, H04W0056000000, H01T0013390000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi- 110016, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dipti Ranjan Sahoo
(33) Name of priority country	:NA	2)Ahmad Fayeq Ghowsi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The buckling restrained bracing assembly (29) is provided to absorb or dissipate 5 vibrational energy due to wind, seismic, explosion, and blast events. The buckling restrained bracing assembly comprises a core element (7) with a first longitudinal end (7a) and a second longitudinal end (7b). The core element (7) is made of an elongated rod having a longitudinal length. A restraining element (2) made of a plurality of angle bars (9) is positioned surrounding the core element. The angle 10 bars attached with each other with an interior angle of the angle bar facing outwards. The restraining element defining an elongated cavity for placement of the core element attached along their longitudinal axis. An attachment portions (3, 4) connected to the first longitudinal end and the second longitudinal end of the core element. The attachment portions allowing the installation of the core element 15 inside the restraining element.

No. of Pages : 28 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028019 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : ELECTRIC WATER PUMP WITH IMPROVED IMPELLER ASSEMBLY

(51) International classification	:F04D0013060000, F01P0007160000, F01P0005120000, F04D0029420000, F04D0015000000	(71) Name of Applicant : 1)PADMINI VNA MECHATRONICS PVT. LTD. Address of Applicant :Plot No. 100-101, Sector 35, Phase VII, Udyog Vihar, Gurgaon, Haryana 122001, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KABIR BHANDARI
(33) Name of priority country	:NA	2)AMARDIP KUMAR
(86) International Application No	:NA	3)PARVEEN GUPTA
Filing Date	:NA	4)ASHOK KUMAR
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an electric water pump (20) with an improved impeller assembly (31). More particularly, the present invention relates to an improved impeller assembly (31) of an electric water pump that provides compactness, requires less input torque to maintain the flow specification and has an improved overall pump efficiency. Said impeller assembly (31) is welded with a shroud member (32) and it has reduced diameter at its bottom portion that helps in reducing the input torque and improve overall efficiency of the electric water pump (20).

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028020 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : ELECTRIC WATER PUMP WITH IMPROVED ROTOR ASSEMBLY

(51) International classification	:F04D0013060000, F01P0007160000, H02K0001320000, F01P0005120000, F04D0029420000	(71) Name of Applicant : 1)PADMINI VNA MECHATRONICS PVT. LTD. Address of Applicant :Plot No. 100-101, Sector 35, Phase VII, Udyog Vihar, Gurgaon, Haryana 122001, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KABIR BHANDARI
(33) Name of priority country	:NA	2)AMARDIP KUMAR
(86) International Application No	:NA	3)PARVEEN GUPTA
Filing Date	:NA	4)ASHOK KUMAR
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an electric water pump (20) with an improved rotor assembly (24). More particularly, the present invention relates to an improved rotor assembly (24) of an electric water pump (20) that provides compactness, requires less input torque to maintain the flow specification and has an improved overall pump efficiency with minimized pump losses. Said rotor assembly (24) comprises of an impeller assembly (31) and a shroud member (32) welded together. Said impeller assembly (31) has an outer diameter less than outer diameter of the shroud member (32) to provide compactness and reduce the input torque.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028057 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : ALERTING SYSTEM AND DEVICE TO FACILITATE SOCIAL DISTANCING

(51) International classification	:G08B0013140000, H04M0001725000, H04W0004800000, G06N0007000000, H04W0012120000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Pintu
(33) Name of priority country	:NA	2)RAJAN, Ajay C
(86) International Application No	:NA	3)SHARMA, Manik
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to an alerting system and device to facilitate social distancing. The device 100 can include a processing unit 206 , a set of sensors 202 operatively coupled to the processing unit, and configured to detect temperature of corresponding entity, and a communication module 208 operatively coupled to the processing unit 206, and configured to communicatively couple the device with second devices 106 associated with second entities 108 , where the communication module 208 is configured to detect a distance between the device and the one or more second devices upon communicative coupling and extract a unique code associated with the corresponding communicatively coupled second devices 106 . The device 104 includes an alerting unit 204 configured to alert the second entities 106 when temperature and distance parameters are found beyond a predetermined limit range.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028058 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : SERVO CALIBRATION DEVICE

(51) International classification	:A63H0030040000, H02M0007493000, H02M0001120000, H02M0007440000, H02M0007538700	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BATRA, Varun
(33) Name of priority country	:NA	2)SINGH, Gurpreet
(86) International Application No	:NA	3)KUMAR, Vijay
Filing Date	:NA	4)SINGH, Ravinder
(87) International Publication No	: NA	5)NAIR, Deepak
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a servo calibration device 100. The device 100 includes a first plate 102 with predetermined angular graduations and adapted to accommodate one or more radio control (RC) servos, and being configured with a pulse width modulation (PWM) unit, where the PWM unit is configured to generate a first set of PWM signals, a set of second plates 104 configured to provide support and positioning of the one or more RC servos with the first plate 102, and a pointer 106 movably coupled with one or more RC servos, and where the pointer 106 facilitates calibration between center of at least one of the RC servo from one or more RC servos with predetermined angular graduations.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028062 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IMMUNOGENIC POLYPEPTIDE, A VACCINE PREPARATION, AND IMPLEMENTATIONS THEREOF

(51) International classification	:A61K0039000000, A61K0039120000, A61K0039050000, A61K0009107000, C07K0014205000	(71) Name of Applicant : 1)JAWAHARLAL NEHRU UNIVERSITY Address of Applicant :Jawaharlal Nehru University, New Delhi- 110067, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)JOHRI, Atul Kumar
(33) Name of priority country	:NA	2)BHATNAGAR, Rakesh
(86) International Application No	:NA	3)SANDUJA, Pooja
Filing Date	:NA	4)GUPTA, Manish
(87) International Publication No	: NA	5)YADAV, Vikas Kumar
(61) Patent of Addition to Application Number	:NA	6)DUA, Meenakshi
Filing Date	:NA	7)SOMANI, Vikas Kumar
(62) Divisional to Application Number	:NA	8)SHARMA, Abhinay
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses an immunogenic polypeptide having at least 95% sequence identity with the amino acid sequence as set forth in SEQ ID NO: 1, wherein the immunogenic polypeptide is capable of eliciting cross-serotype protection against Streptococcus pyogenes or different serotypes of Group A Streptococcus. Further, the present disclosure discloses a nucleic acid fragment encoding the immunogenic polypeptide. Also disclosed herein is a recombinant construct, a recombinant vector, and a recombinant host cell harboring the nucleic acid fragment as described herein. The present disclosure also discloses a vaccine and a nanoparticle vaccine comprising the immunogenic polypeptide as described herein along with their methods of preparation. A method of eliciting an immune response using the vaccine is also disclosed herein along with the use of the immunogenic polypeptide and the vaccine. A therapeutic kit comprising the vaccine or the polypeptide of the present disclosure is also described.

No. of Pages : 59 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028087 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A MOUNTING ASSEMBLY FOR OPENING AND CLOSING OF A HOOD OF AN AUTOMOBILE

(51) International classification	:B62D0025160000, B60R0021340000, B60R0022240000, B62D0029000000, H01R0004300000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SAURABH SINGH CHAUHAN
(33) Name of priority country	:NA	2)BINNY SINGLA
(86) International Application No	:NA	3)PARVEEN KUMAR SHARMA
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The subject matter of the invention discloses an assembly (400) for opening and closing of a hood (102) of an automobile. The assembly (400) comprises a bracket (300), wherein the bracket (300) comprises a first portion (302) configured to be affixed to a hinge pillar (104) of the automobile, a second portion (304) defining a pivot hole (308) and a third portion (306) configured to be affixed a fender of the automobile. The first portion (302) and the third portion (306) extend perpendicularly from two opposing sides (310, 312) of the second portion (304). The first portion (302) and the third portion (306) extend in a direction opposite to each other. The second portion (304) defines an irregular triangular shape, such that the bracket (300) is located outside the pedestrian head impact zone during impact testing of the automobile.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028089 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : INTELLIGENT PRODUCT SELLING SYSTEM AND METHOD THEREOF

(51) International classification	:G06Q0030060000, G06Q0030080000, H04B0010270000, A47F0005080000, G06Q0030040000	(71) Name of Applicant : 1)Sanchit Kundra Address of Applicant :S/O: Shri Karam Veer Kundra, 53 Lajpat Kunj Civil Line, Agra, Uttar Pradesh, 282002, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sanchit Kundra
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is directed to an intelligent system for selling products through online and offline mode between local vendors and buyers operational via a user interface or platform. The method of selling products comprises the steps of ; registering a local vendor to sell his products; delivering of products to buyer by the vendor; buying of products by local city buyer without going to a showroom or place; bargaining of products by local buyers which are not available at any other online channel; and delivering the product of the local buyer on the same day , without going to local vendor shop.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : MULTIPURPOSE AIR PURIFYING DEVICE AND METHOD THEREOF

(51) International classification	:F24F0003160000, A61L0009140000, A61L0009000000, B01D0053040000, A61L0009160000	(71) Name of Applicant : 1)JAI MATA DI ASSOCIATES Address of Applicant :3263 SECTOR 23 GURGAON 122017 HARYANA INDIA Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kunal Dhawan
(33) Name of priority country	:NA	2)Bhavna Dhawan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A multipurpose air purifying device (100) comprising: a first cartridge (106), wherein the first cartridge (106) comprises: an air inlet (108) to pull a polluted air from an ambient environment; an air outlet (110) to expel a purified air from the first cartridge (106); and a filter assembly (114) comprises a first layer of filter (118) and a second layer of filter (120) to remove contaminants from the polluted air. The multipurpose air purifying device (100) comprising: a second cartridge (126) capable to store a fragrance substance, wherein the second cartridge (126) is provided with openings to enable the purified air to pass through the second cartridge (126) to entrain a fragrance to the purified air; and a third cartridge (128), wherein the third cartridge (128) comprises a sanitizer dispenser (132) to dispense a pre-defined amount of a sanitization solution stored in a sanitizer container (130) at pre-defined intervals.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028130 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : DOFFING FACILITATORS FOR SAFE DISPOSAL OF PERSONAL PROTECTIVE MEDICAL GOWNS

(51) International classification	:A41D0013120000, G06Q0050220000, A61K0039120000, A61L0015180000, A61K0038000000	(71) Name of Applicant : 1)Dr B R Ambedkar National Institute of Technology Jalandhar Address of Applicant :Dr B R Ambedkar National Institute of Technology, Jalandhar, GT Road Bye Pass Jalandhar Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Monica Sikka
(33) Name of priority country	:NA	2)Dr A K Choudhary
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Personal protective equipment, commonly referred to as PPE, is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses. Medical gowns are commonly used in hospitals, clinics and other diagnostic centers. Medical gowns are worn by health care providers and patients to help prevent transmission of microbes. In epidemics of highly infectious diseases, such as Ebola, severe acute respiratory syndrome (SARS), or coronavirus (COVID-19), healthcare workers (HCW) are at much greater risk of infection than the general population, due to their contact with patients' contaminated body fluids. Research says that medical gowns have a potential to act as a vehicle for bacterial dissemination. Pathogen transference is possible from one patient to other (cross infection) by gowns that act as vehicles of transference. Medical gowns, after the usage are generally crumbled from the inside out and disposed to avoid cross infection while waste handling. The current invention aims at maintaining a wrapped-up position of the used garment by providing a securing means such as strings, fasteners, etc. resulting in a collapsible form. The garment can be disposed and avoid cross infection while waste handling

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028155 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : UAN CUM SEED APPLICATOR

(51) International classification	:C05C0001000000, B01J0019000000, A61N0005100000, A45D0040260000, A45D0034040000	(71) Name of Applicant : 1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR) Address of Applicant :KRISHI BHAWAN, 1, DR. RAJENDRA PRASAD ROAD, NEW DELHI, INDIA-110001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)INDRA MANI
(33) Name of priority country	:NA	2)TAPAN KUMAR KHURA
(86) International Application No	:NA	3)SATISH DEVRAM LANDE
Filing Date	:NA	4)ROAF AHMED PARRAY
(87) International Publication No	: NA	5)PREM KUMAR SUNDARAM
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The innovative UAN cum Seed Applicator performs UAN fertilizer metering, seed placement in furrow, uniform distribution of UAN and its precise placement in 5 furrow at optimum spacing from seeds to avoid seed damage and thereby enhances nutrient use efficiency. It comprises of pressurized UAN metering system, optimally designed slit type furrow opener for precise placement of seed and UAN, seed box, UAN storage tanks and pmver transmission system. The applicator is tractor drawn and helps in placement of seed and UAN sequentially at pre-determined depths 10 thereby, maintaining proper horizontal and vertical spacing between the two resulting in improved crop stand establishment and increased productivity .

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028187 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN ARRANGEMENT FOR CLEANING A WASHING MACHINE

(51) International classification	:D06F0035000000, D06F0037260000, D06F0039000000, D06F0039020000, D06F0037020000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Singh Abhishek
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[0023] An arrangement (100) for cleaning a washing machine is provided. The arrangement (100) comprising an inner drum (102) to hold laundry in the washing machine, the inner drum (102) is placed inside an outer drum (104) and a tub cover (106) coupled with a scrub pad (108), the tub cover (106) facilitates in covering the inner drum (102) and the outer drum (104) of the washing machine. Further, the scrub pad (108) is positioned between the inner drum (102) and the outer drum (104) to clean smudge accumulated between the inner drum (102) and the outer drum (104) of the washing machine. The outer surface of the inner drum (102) is cleaned by the scrub pad (108) in a tub cleaning cycle.

No. of Pages : 14 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028196 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : HYBRID BUCKLING-RESTRAINED BRACE SYSTEM

(51) International classification	:E04H0009020000, E04B0001980000, B60K0006480000, B60K0006365000, E04C0003020000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi- 110016, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dipti Ranjan Sahoo
(33) Name of priority country	:NA	2)Ahmad Fayeq Ghowsi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a hybrid buckling-retrained brace system (100) for 5 connection between structural members of a building and configured to absorb transient loads applied to the building. The hybrid buckling-retrained brace system (100) comprises a slender steel core element (3) comprising a central yielding segment (9), a first connection segment (8) and a second connection segment (10), a restraining member (2) comprising a plurality of angle bars (15) and configured 10 to be arranged around the core element (3) and an elongated member (4). The restraining member (2) disposed around the core element (3) is detachably connected in series with the elongated member (4) to absorb transient loads applied to the building. This arrangement not only reduces the overall cost of BRB but also increases the axial stiffness of the hybrid buckling-retrained bracing system.

No. of Pages : 30 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028203 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A NOVEL GLYCOCONJUGATE VACCINE AGAINST STREPTOCOCCUS PNEUMONIAE

(51) International classification	:A61K0039000000, A61K0039090000, C07K0014315000, A61K0047640000, A61K0039385000	(71) Name of Applicant : 1)NATIONAL INSTITUTE OF IMMUNOLOGY Address of Applicant :Aruna Asaf Ali Marg, New Delhi 110067, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mamta Singh
(33) Name of priority country	:NA	2)Jairam Meena
(86) International Application No	:NA	3)Hema Sori
Filing Date	:NA	4)Rahul Ahuja
(87) International Publication No	: NA	5)Sneha Saxena
(61) Patent of Addition to Application Number	:NA	6)Devinder Sehgal
Filing Date	:NA	7)Amulya Kumar Panda
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides glycoconjugate vaccine against micro-organisms. Specifically, said glycoconjugate includes but not limited to pneumococcal glycoconjugate. Further, the present invention provides a nano formulation comprising said conjugate, method of producing said vaccine and kit thereof.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028215 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : GRAPHENE NANO COMPOSITE POLYMERIC MEMBRANE AND METHOD THEREOF

(51) International classification	:B82Y0030000000, A61K0047120000, B01D0071020000, H04L0029080000, H01Q0001080000	(71) Name of Applicant : 1)Nanomatrix Materials Private Limited Address of Applicant :306, Gaurav Tower, Malviya Nagar, Jaipur, Rajasthan, India - 302017 Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VIKAS BARDIYA
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Graphene nano-composite polymeric membrane wherein graphene oxide is synthesized by modified hummers method, graphene oxide is then doped with sulphur and substituted with amino group followed by silver crosslinking. The present invention can be used in high performance masks and air purifiers that has the application in graphene based advanced materials in air filtration membranes.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028228 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : POLLUTION MONITORING DEVICE FOR VEHICLES

(51) International classification	:A61B0005024000, G01F0022000000, G07C0005080000, A61B0005045200, A61B0005091000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GARG, Atul
(33) Name of priority country	:NA	2)GUPTA, Kamali
(86) International Application No	:NA	3)BANSAL, Mohit
Filing Date	:NA	4)BANSAL, Nidhi
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a pollution monitoring device for heavy duty and light weight vehicles. The device 100 can include a first set of sensors 102 configured to detect a first set of parameters of a vehicle, and correspondingly generate a first set of signals, a second set of sensors 104 to detect a second set of parameters of the vehicle, and correspondingly generate a second set of signals ,a processing unit 106 operatively coupled with the first set of sensors 102 and the second set of sensors 104 and configured to generate a set of alarm signals and one or more illuminating devices 108 operatively coupled with the processing unit 106, where at least one of the one or more illuminating devices 108 is illuminated in response to the generated set of alarm signals.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028229 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : CASING TO FACILITATE IMAGE CAPTURING

(51) International classification	:A61B0005045200, A61M0021020000, A61M0021000000, H04R0025000000, B62D0005040000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)JUNEJA, Sagar
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a casing 100 associated with a mobile computing device to facilitate image capturing. The casing 100 includes at least one grip member configured to hold one or more fingers of a subject, at least one cable movably coupled with the casing, a first actuator operatively coupled with the casing, and configured to generate a first set of signals when the subject actuates the first actuator, a control unit operatively coupled with the at least one cable and the first actuator, and configured to extract a second set of signals from the first set of signals, where the second set of signals pertain to resistance parameters, generate a set of actuation signals based on the extracted second set of signals, and a second actuator operatively coupled with the mobile computing device and the control unit, and where based on the generated set of actuation signals the second set of actuator facilitates image capturing.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028233 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : STATIC TRACTION SYSTEM FOR RAIL

(51) International classification	:A61F0009008000, B60L0007180000, B60L0015200000, B60L0007100000, H02P0003140000	(71) Name of Applicant : 1)Umeandus Technologies India Pvt. Ltd. Address of Applicant :B-163, The Icon DLF City, Phase-5, Gurgaon-122009, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Rajeev Chanan
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A static traction system for vehicle on a rail track comprises a traction path, a thrusting member, and a contact surface. The traction path is positioned at a predefined section of the rail track and the thrusting member is powered by a power source that is statically positioned on the traction path, wherein the thrusting member is displaced along the traction path based on a set of predefined commands. The contact surface is positioned on the vehicle, wherein the thrusting member contacts the contact surface to thrust the vehicle along the traction path. In an embodiment, the power source is an energy storage unit, and wherein energy is regenerated and restored into the energy storing unit via absorbing regenerative braking power that is derived from traversal of the vehicle along the rail track.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028255 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DISEASE DIAGNOSIS OF A PATIENT

(51) International classification	:G16H0010600000, G06Q0050220000, G16H0050200000, A61K0009080000, G16H0040200000	(71) Name of Applicant : 1)MUSHTAQ AHMAD AGA Address of Applicant :ASPEER COLONY, CHINKIPORA, SOPORE, BARAMULLA, JAMMU AND KASHMIR, 193201, INDIA Jammu & Kashmir India 2)RAHUL TYAGI
(31) Priority Document No	:NA	(72) Name of Inventor : 1)MUSHTAQ AHMAD AGA
(32) Priority Date	:NA	2)FOZIA SAMAD
(33) Name of priority country	:NA	3)SHAKEEL HUSSAIN MIR
(86) International Application No	:NA	4)ANAM GANI
Filing Date	:NA	5)IRTIZA MANZOOR
(87) International Publication No	: NA	6)MALEEHA QAISAR
(61) Patent of Addition to Application	:NA	7)YASMEENA BANO
Number	:NA	8)SABREENA NABI
Filing Date	:NA	9)MOHAMMAD OWAES AGA
(62) Divisional to Application Number	:NA	10)RAHUL TYAGI
Filing Date	:NA	11)SWATI JAIN
		12)SK THASLIM BASHA
		13)SRINIVASARAO MADASANI

(57) Abstract :

A system and a method for disease diagnosis of a patient is disclosed. The method includes enabling a healthcare provider to access a medical appointment received from a patient. The method includes obtaining, by a medical input subsystem located at e-prescription module, one or more symptoms corresponding to a disease from the patient and receiving one or more clinical signs observed by the healthcare provider. The method includes fetching real-time medical information of the patient from a patient database. The method includes analyzing a plurality of diagnostic test reports of the real-time medical information with a plurality of labelled disease datasets. The method also includes determining one or more inter-related clusters of signs and symptoms including one or more pathognomonic signs, one or more sine qua non signs or a combination thereof for diagnosing the disease of the patient and providing one or more recommendations.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028297 A

(19) INDIA

(22) Date of filing of Application :02/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A METALLIC PEN PROJECTOR WITH A FINGER-PRINT UNLOCK SYSTEM AND PORTABLE WIRELESS CHARGER

(51) International classification	:G06K0009000000, H02J0007000000, G06F0003035400, G06F0021830000, G06F0003048800	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)AYUSHI SINGH
(33) Name of priority country	:NA	2)Payal Rawat
(86) International Application No	:NA	3)Tanwar Sarvesh
Filing Date	:NA	4)AJAY RANA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a metallic pen projector with a finger-print unlock system and portable wireless charger by which we can write upon folio with a metallic rollable nib (1,2). The inbuilt projector lens(convex), and adjustable lens(convex) (7) for the projection of the projector. The foldable touchpad (6) by using graphene sheet. The trackable fingerprint sensor (4) which can locate the lost pen by the user's fingerprint. The spy camera (5) which is inbuilt in the pen for the security purpose. The USB port (8) for the connectivity of mobile, pen drive and for charging purpose. The charging pen stand portable charger can be done in the form of solar energy.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028305 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SCREW DRIVER ASSEMBLY

(51) International classification	:B25B0021000000, H02J0007000000, B23P0019060000, B25B0023000000, A61B0017880000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Saket Kumar
(33) Name of priority country	:NA	2)Rajkumar Viral
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a screw driver assembly. The screw driver assembly is provided with a new design and development of a self-recognized mechanism and advanced universal screw driver that can be utilized to open and close any type of screw shape and size and then complete the screwing and unscrewing process. The screw driver assembly comprises: a power switch 1, a control switch 2, a controller 3, a battery control unit 4, an image capturing unit 5 and a plurality of adjustable needles 6. The screw driver assembly is having the compatibility options of adapting the shape and size of screw with the image capturing unit controlled controller and get it unscrewed without changing any 'bit' type from each of the plurality of needles.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028312 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM FOR PROVIDING COOL AIR-WITH DEHUMIDIFIER CONTROL IN RAINY SEASON AND METHOD THEREOF

(51) International classification	:F24F0003140000, B01D0053260000, C22C0038020000, A61K0008350000, A61K0008420000	(71) Name of Applicant : 1)GURU PRASAD BOSE Address of Applicant :C-334, PANCHVATI CGHS, F- BLOCK, VIKAS PURI, DELHI, INDIA-110018 Delhi India 2)SUNIL KUMAR SONKAR
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GURU PRASAD BOSE
(33) Name of priority country	:NA	2)SUNIL KUMAR SONKAR
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is to provide a system for producing cool air even more cool than traditional air cooler based on water vaporization principles. The system consist a water tank, fan, pump, clay bricks panel and a net. In this system water will flow from top to bottom through vertical holes with bricks and stores in the holes at the top of the bricks. The bricks get wet and water vaporized through clay bricks. Some water store on the top of each bricks and it continuously flows through the bricks and get vaporized. Thus clay bricks and water both get cooled. Air comes from outside is hot and gets cooled in the holes of bricks. Due to heat of air water vaporized faster and bricks and water gets cooled further. The water finally accumulates in tank and again pumped to top of the cooler, where water spread uniformly to all the three sided of cooler as in traditional air cooler. Thus water and bricks gets cooler and cooler and clay air cooler provides very cold air like Air- conditioners. A fiber net I dehumidifier made with a sheet of polyester-spandex chiffon or like materials put before the Fan I Exhaust Fan to prevent mosquitoes I insects I water drops I dust to enter into the room. This works as a de-humidifier.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028313 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : PASSIVE AIR FILTER-A SYSTEM TO CLEAN AIR AND METHOD THEREOF

(51) International classification	:F02C0007180000, F24F0011300000, G01N0030020000, H01L0021677000, F24F0013068000	(71) Name of Applicant : 1)GURU PRASAD BOSE Address of Applicant :C-334, PANCHVATI CGHS, F- BLOCK, VIKAS PURI, DELHI, INDIA-110018 Delhi India 2)SUNIL KUMAR SONKAR
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GURU PRASAD BOSE
(33) Name of priority country	:NA	2)SUNIL KUMAR SONKAR
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In today's world one of the major problems for the humanity is air pollution. Many thousands deaths in the world are due to air pollution. In future, air pollution problem rise further due to industrialization. Providing clean air is a big challenge to every government. Many air filters are available in the market, but they have limited use i.e. in a room or in a vehicle. All these filters are operated by electricity. We discover an idea to clean air without any energy source. It is a passive air filter. In all filters air passes through filter membranes with pressure, which requires energy source. We put filter membrane on a vehicle i.e. public transports and private vehicles. This arrangement needs only regular cleaning of filter membranes. This way air pollution can be reduced at a great level.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028336 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : SHOE SOLE SANITIZER WITH CONTACT-TIME ALERT

(51) International classification	:A61L0002220000, A61L0002180000, A47L0023260000, G08B0015000000, A61L0011000000	(71) Name of Applicant : 1)DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR Address of Applicant :G.T. Road, Amritsar Bye-Pass, Jalandhar – 144011, Punjab, India Email ID: registrar@nitj.ac.in Phone: 0181 2690324 Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)AWASTHI DR. LALIT KUMAR
(33) Name of priority country	:NA	2)GARG DR. RAJIV KUMAR
(86) International Application No	:NA	3)SACHDEVA ANISH KUMAR
Filing Date	:NA	4)BAJPAI DR. SHAIENDRA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a simple, cost-effective shoe sole sanitizing system with the recommended contact-time alert that disinfects the pedestrian's shoe soles before entering the different public places like offices, hospitals, educational institutes etc. The primary components of the said system consist of a disinfectant storage unit(1), plurality of adjustable wheels(2), Sensors(3,10, 11) to activate and deactivate the timer for siren alert and blinking light(5) and also activate the Controller(6) for release of fluid through nozzles (4), Storage tank(7) to store the 1% of sodium hypochlorite solution as the disinfectant liquid, Pump(8), Sponge mat(9) to hold disinfectant liquid.Each person has to put three steps @ 20 seconds per step, which will be recorded by the sensor and if the contact time is less than the recommendation, the siren alert and blinking light will be activated to complete the process properly.

No. of Pages : 18 No. of Claims : 3

(54) Title of the invention : VEHICLE SAFETY SYSTEM USING FINGERPRINT SCANNER AND DRIVING LICENSE DATA

(51) International classification	:G06F0021100000, G06Q0050200000, B60R0021260000, B60R0025250000, A61B0005117200	(71) Name of Applicant : 1)RAGHAV TYAGI Address of Applicant :267-B POCKET-C MAYUR VIHAR PHASE-2 NEW DELHI-110091, INDIA Delhi India 2)SHUBHAM BHARDWAJ
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAGHAV TYAGI
(33) Name of priority country	:NA	2)SHUBHAM BHARDWAJ
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Very often people, get injured and some even lose their lives in road accidents involving underage drivers. With increasing road accidents in India, measures to reduce these incidents to increase road safety are becoming of prime importance. In view of this situation, this invention helps wherein the car's engine won't start until an authorised person, i.e., a person holding a valid driving license, scans his/her fingerprint. For this purpose, this device will use the fingerprint data stored in the RTO's database which is recorded while issuing a driving license to an individual and there would be a temporary database (in the internal memory of the device) for offline retrieval as well. When the entered fingerprint matches the data saved by the owner for offline retrieval or the data saved on the cloud database, the user is granted access to start the engine. If an unauthorised person tries to start the vehicle the ignition system of vehicle won't work. For emergency situations wherein the network is not available and the driver's data is not saved in internal memory of the device, manual override is allowed wherein the driver is asked to enter a passkey that only the owner of vehicle knows, to start the engine. This invention aims to prevent underage and unauthorised people from driving any vehicle that will ensure higher safety on roads. With the successful implementation of the system, it can be expected to achieve higher compliance with the new Motor Vehicle Act, 2019 and provide the owner greater control over their vehicle.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028344 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IMPROVED PROCESS AND CATALYST FOR LOW TEMPERATURE NON-OXIDATIVE DEHYDROGENATION OF PROPANE TO PROPYLENE

(51) International classification	:C07C0005333000, C07C0002760000, B01J0035000000, C07C0007040000, B01J0029420000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG, NEW DELHI, INDIA, 110 001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BIPUL SARKAR
(33) Name of priority country	:NA	2)ANKIT AGRAWAL
(86) International Application No	:NA	3)OM VIR SINGH
Filing Date	:NA	4)INDRAJIT KUMAR GHOSH
(87) International Publication No	: NA	5)SHAIENDRA TRIPATHI
(61) Patent of Addition to Application Number	:NA	6)SANAT KUMAR
Filing Date	:NA	7)ANJAN RAY
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a process and catalyst for the non-oxidative dehydrogenation of propane for the production of propylene as petrochemical building blocks. The process provides a direct single-step gas-phase dehydration of propane mixed with nitrogen in the presence and absence of steam/ hydrogen over supported bimetallic alumina-silicates zeolites. The catalyst contains no precious metal entities and may contain one metal from group VI B in combination with another metal from group III A or IV A supported on FAU, MFI, KFI, BEA type alumina-silicates zeolites. The process provides a propane conversion of 18-52% with a propylene yield of 10-25%.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028345 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF VANILLIN AND OTHER SUBSTITUTED PHENYLALDEHYDES

(51) International classification	:A61K0031085000, C07C0045650000, A01N0031160000, C07C0041300000, A61K0031110000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN 2 RAFI MARG, NEW DELHI, INDIA. 110 001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GUPTA ATUL
(33) Name of priority country	:NA	2)VERMA RAM SWAROOP
(86) International Application No	:NA	3)SINGH SARITA
Filing Date	:NA	4)SINGH SWATI
(87) International Publication No	: NA	5)NEGI ARVIND SINGH
(61) Patent of Addition to Application Number	:NA	6)SHANKER KARUNA
Filing Date	:NA	7)TANDON SUDEEP
(62) Divisional to Application Number	:NA	8)KALRA ALOK
Filing Date	:NA	

(57) Abstract :

The present invention relates to a chemical process for the production of substituted phenylaldehydes such as vanillin (1a) form substituted phenylpropenes of substituted phenylpropenes enriched essential oils such as eugenol (2a) or eugenol rich essential oils indiscriminately through either cis or trans or a mixture of cis and trans isomer(s) of substituted phenylprop-2-enes such as isoeugenol, an intermediate compound. The invention relates to the conversion of substituted phenylpropenes to other substituted phenylaldehydes, particularly vanillin without the protection of the phenolic group, therefore, it offers a step economy. The present chemical process involves the use of class 3 and 4 solvents thereby devoid of the use of any chlorinated solvent

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028347 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN INSTANTANEOUS WATER ELECTROLYSER AND A METHOD FOR IONIZING WATER

(51) International classification	:C02F0001461000, B09C0001080000, C25B0009000000, C02F0001463000, C02F0001440000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN,2 RAFI MARG,RAFI MARG, NEW DELHI, DELHI,INDIA. 110001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PAVANII VADTHYA
(33) Name of priority country	:NA	2)SIDDHARTHA MOULIK
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electrolyser and method of the present invention comprise electrodes made of titanium with perforation, arranged parallel and equidistant from the center of an electrolytic ionized water producer. An inlet is provided to the ionizer at center of electrodes on the top position. All the parallel electrodes are enclosed leak proof in a rectangular container with two outlets on opposite sides and electrical connections from variable power supply source to the device. The water is introduced into the centre of the ionizer from the top. The charged electrodes ionize the water and produce alkaline ionized water at cathode and acidic ionized water at anode. Acidic ionized water and alkaline ionized water are collected separately from the electrolyser.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028351 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PORTABLE ULTRAVIOLETTE STERILIZATION BOX

(51) International classification	:A61L0002260000, A61L0002100000, A61L0002000000, A61L0002070000, A61L0002140000	(71) Name of Applicant : 1)THINK EBIKEGO PRIVATE LIMITED Address of Applicant :267, East Mohan Nagar, 100 feet road, Amritsar, Punjab- 143001, India Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kedar Soman
(33) Name of priority country	:NA	2)Dharmendra Maurya
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A dual compartment UV sterilization box is disclosed. The UV sterilization box includes a support frame 112. The support frame 112 defines a first cavity 104 and a second cavity 106. The UV sterilization box 100 further includes an outer sheet 102 that covers the support frame 112 wholly from an outer side. Furthermore, the UV sterilization box 100 includes an inner first sheet covering 142 that is configured to define the first cavity 104 and an inner second sheet covering 1062 configured to define the second cavity 106.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028354 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DIRECTLY SENDING MESSAGES WITH MINIMAL USER INPUT

(51) International classification	:G06F0003048800, G06F0009451000, G06Q0030060000, G06F0003048400, B31D0005000000	(71) Name of Applicant : 1)TALENT UNLIMITED ONLINE SERVICES PVT. LTD. Address of Applicant :202, S/F 94 Meghdoot Nehru Place South Delhi, Delhi 110019, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GAURAV SRIVASTAVA
(33) Name of priority country	:NA	2)RAHUL PRASAD
(86) International Application No	:NA	3)ANKIT PRASAD
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system including a direct message sending engine (DMSE) (609) and a method for directly sending messages with minimal user input are provided. When a user invokes an input interface proximal to an input message field (IMF) of a user application (608), the DMSE (609) renders a list of preconfigured messages on the input interface. When the user performs a selection action on at least one of the preconfigured messages on the input interface, the DMSE (609) receives the selection action and in response, the DMSE (609) transforms properties of the IMF, commits the preconfigured message(s) to the IMF, and simultaneously and directly sends the preconfigured message(s) to a recipient device. On committing the preconfigured message(s) to the IMF, the DMSE (609) simultaneously executes a programmatic simulation of an action key press, thereby directly sending the preconfigured message(s) to the recipient device free of a manual user input.

No. of Pages : 39 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028369 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : INDUCTION MOTOR CEILING FAN WITH SINGLE SIDED BEARING SUPPORT

(51) International classification	:F04D0025080000, H02K0017080000, G01R0011360000, F24F0110100000, F04D0025060000	(71) Name of Applicant : 1)LUMINOUS POWER TECHNOLOGIES PVT. LTD. Address of Applicant :Plot No. 150, Sector 44, Gurugram, Haryana – 122003, INDIA Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Singh, Mukesh
(33) Name of priority country	:NA	2)Jain, Sandeep
(86) International Application No	:NA	3)Gill, Mandeep Singh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A motor assembly (200) of a ceiling fan comprising a shaft (202) wound with a stator core (204), and a rotor (206) present around the stator core (204) is disclosed. The motor assembly (200) is enclosed within a housing including a top cover (210) and a bottom cover (212). The top cover (210) of the housing rests over a ball bearing (208) mounted on the shaft (202). The rotor (206) is fixed on the top cover (210). Accordingly, the present invention maintains the concentricity of the rotor (206) with the shaft (202) on which the stator core (204) is mounted and eliminates dependency on the bottom cover (212).

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028409 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD AND SYSTEM TO GENERATE CONTENT BASED ON AI TECHNIQUES

(51) International classification :G06N0003080000,
G06N0003040000,
G06F0017270000,
G06T0003400000,
G06K0009620000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Samsung Electronics Co., Ltd.
Address of Applicant :129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Republic of Korea Republic of
Korea

(72)Name of Inventor :
1)MODI, Rajat
2)BATHULA, Sreekar
3)NELLURU, Vishnu Teja
4)SHARMA, Manish

(57) Abstract :

The present subject matter refers a content-generation method in a computing-environment based on artificial neural network (ANN) such as generative adversarial network (GAN). The method comprises receiving an external-input for generation of content by a Generative adversarial network (GAN), wherein such GAN is configured to operate in respect of a plurality of target domain attributes (TDA) for a target domain. The content corresponds to media or multimedia. Thereafter, a plurality of target domain attribute (TDA) are shortlisted from the plurality of TDA based at least one of said external input and one or more clusters associated with said plurality of TDA. Data is interpolated within latent space defined by representations of the shortlisted TDA, wherein a direction of interpolation is determined based on (i) a sampling-vector computed based on at least one of (a) the external-input and (b) said one or more clusters; and/or (ii) an automatically-learned relation within latent codes in said latent space for predicting latent codes.

No. of Pages : 64 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028425 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : DISPENSING EQUIPMENT

(51) International classification	:A61B0017000000, A47K0005120000, A63B0021000000, B05B0012080000, B67D0001060000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Neeraj
(33) Name of priority country	:NA	2)BANSAL, Mayank
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a dispensing equipment 100 comprising a frame 102 that includes two movable sections 104-1 and 104-2 adapted to hold a dispenser 108. The dispensing equipment 100 includes a foot pedal 110-1 that can be operated to facilitate dispensing of fluid from the dispenser 108. The dispensing equipment 100 includes an elongated member 106 that can operatively couple the movable sections 104-1 and 104-2 to the foot pedal 110-1. The dispensing equipment 100 includes a sensor to sense an entity, and a control unit to facilitate dispensing of fluid from the dispenser 108 based on the sensed entity.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028445 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : POLYHERBAL COMPOSITION FOR RESPIRATORY ILLNESSES INCLUDING COVID-19 AND ITS PROCESS OF PREPARATION

(51) International classification	:A61K0036906600, A61K0036270000, A61K0036670000, A61K0036185000, A61K0036190000	(71) Name of Applicant : 1)Dalmia Centre for Research and Development Address of Applicant :A-48, Sector -2, Phase I, Noida, Uttar Pradesh 201 301, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)YADAV, Sunita
(33) Name of priority country	:NA	2)S., Lakshmi Subramanian
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to poly herbal composition for improving overall respiratory functions damaged due to various allergens in the respiratory tract including COVID-19. More particularly this invention relates to a composition or formulation comprising *Achyranthes aspera*, *Woodfordia fruticosa*, *Solanum xanthocarpum*, *Adhatoda vasica*, *Acacia arabica*, *Zingiber officinalis*, *Syzygium aromaticum*, *Curcuma longa*, *Holarrhena antidysenterica*, *Encostemma littorale*, *Calotropis procera*, *Piper longum*, *Piper nigrum* and *Elettaria cardamomum* in a syrup form or in a capsular form with permitted fillers and preservatives. Also, the invention relates to the process of preparation of the polyherbal composition or formulation.

No. of Pages : 29 No. of Claims : 11

(54) Title of the invention : A SYSTEM FOR CONTAMINATION-FREE FOOD DELIVERY

(51) International classification	:H04L0029060000, G06Q0050120000, G07C0009000000, H04L0009080000, G06Q0050060000	(71) Name of Applicant : 1)Akhil Chaudhry Address of Applicant :A-39, Lajpatnagar, sahibabad, ghaziabad-201005 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Akhil Chaudhry
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system(100) for contamination-free food delivery. The present invention includes a deliveryman computing device(108), a client computing device(110), a restaurant computing device(112). a smart delivery cabinet(114), and a server computer unit(102). The smart delivery cabinet(114) includes an electronic cabinet lock(116). The electronic cabinet lock(116) having a networking module(118) that wirelessly connects to the deliveryman computing device(108) to unlock the electronic cabinet lock(116) through a one-time password that is only known by a client and a restaurant owner. The server computer unit(102) includes a database unit(104), a server networking unit(118), and a system processing unit(106). The system processing unit(106) communicates with the deliveryman computing device(108), the restaurant computing device(112), and the client computing device(110) through the server networking unit(118). The client and the restaurant receive a one-time password from the system processing unit(106) on their respective client computing device(110) and the restaurant computing device(112).

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028518 A

(19) INDIA

(22) Date of filing of Application :04/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A HERBAL FORMULATION IN LOLLIPOP FORM FOR PEDIATRIC USE AND METHOD OF PREPARING THE SAME

(51) International classification	:A61K0036906800, A23L0033105000, A23G0003560000, A01N0065480000, A61K0036770000	(71) Name of Applicant : 1)DEVINA VAIDYA Address of Applicant :Principal Scientist Department of Food Science & Technology Y S Parmar University of Horticulture and Forestry Nauni, Solan, Himachal Pradesh-173230, India Email id: devinavaidya@yahoo.com Phone: 9418061045 Himachal Pradesh India
(31) Priority Document No	:NA	2)SK TYAGI
(32) Priority Date	:NA	3)MANISHA KAUSHAL
(33) Name of priority country	:NA	4)ANIL GUPTA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)DEVINA VAIDYA
(87) International Publication No	: NA	2)SK TYAGI
(61) Patent of Addition to Application Number	:NA	3)MANISHA KAUSHAL
Filing Date	:NA	4)ANIL GUPTA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses herbal pediatric formulation in lollipop form which is made up of synergistic combination of ginger and honey. The said lollipop is an amazing method to make children consume spicy and pungent ginger which is known for extraordinary medicinal properties. Secondly the said lollipop formulation also contains honey which not only suppresses the pungency of ginger but also enhances medicinal properties of the said lollipop. The method to prepare said lollipop is very simple and does not require additional ingredients such as corn syrup. The inventors have also provided optimized concentration of different forms of ginger viz., ginger powder (3-6%, preferably 4%), ginger oleoresin (0.02 to 0.14%, preferably 0.1%) and ginger juice (20-30%, preferably 25%) so that the lollipop of present invention can be prepared with any form of ginger available without compromising the taste as well as the medicinal benefits.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028535 A

(19) INDIA

(22) Date of filing of Application :04/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN IDENTIFICATION OF MULTIPLE FEATURES OF VOICES OF DIFFERENT LANGUAGES AND CONVERSION INTO TEXT

(51) International classification	:G10L0017020000, H04M0003420000, G06F0017280000, G10L0017000000, H04M0003560000	(71) Name of Applicant : 1)Adaptive Control Security GLocal Corp Pvt LTd Address of Applicant :602, Deepsikha Tower, 19 Rajendra Place Delhi Central Delhi 110008 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Neha Sharma
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention related to a system(100) and a method for identification of multiple features of voices of different languages and conversion into text. The present invention includes a computational unit(102), a microphone(108) and a display unit(110). The computational unit(102) includes a database unit(104) and a system processing unit(106). The database unit(104) stores computer-readable instructions and a neural network model. The system processing unit(106) executes computer-readable instructions to create a dataset of the plurality of the voice samples and the plurality of subsequent text files in the english language. The system processing unit(106) inputs the plurality of datasets into the train the neural network model for converting voices of the different languages into english language text and identification of multiple features of the voices. The multiple features of the voices are an audio identity of a speaker, an identification multiple the speakers in a crosstalk, an emotion of the speaker and gender of the speaker.

No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028555 A

(19) INDIA

(22) Date of filing of Application :05/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR DEGRADING AND DETOXIFYING TEXTILE DYE EFFLUENT THROUGH MICROBES AND PRODUCT THEREOF

(51) International classification	:C02F0003340000, B09C0001100000, H04L0012280000, C02F0003000000, G01N0033360000	(71) Name of Applicant : 1)Greenathon and Company Address of Applicant :68-B, Jadaun Nagar B, Durgapura, Jaipur-302018, Rajasthan, India Rajasthan India 2)Banasthali Vidyapith
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Sarika Gupta
(33) Name of priority country	:NA	2)Ambika Saxena
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure relates to method for degrading and detoxifying a plurality of dyes from textile effluent and product thereof. The method (200) includes collecting (201) a sample of textile effluent. The sample of textile effluent includes a plurality of dyes. The method (200) further includes selecting (202) at least one of a plurality of indigenous microbes to obtain a set of enzymes. Each of the set of enzymes degrades or detoxifies at least one of the plurality of dyes in the textile effluent. The method (200) further includes producing (203) the set of enzymes through the at least one of the plurality of indigenous microbes to degrade or detoxify at least one of the plurality of dyes by enzymatic degradation; and validating feasibility of the at least one of the plurality of indigenous microbes to produce the set of enzymes at an industrial scale.

No. of Pages : 38 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028595 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : NON-PLANAR PUSH-PULL CHROMOPHORES FOR DETECTION OF FLUORIDE (F⁻) AND METHOD OF PREPARING THE SAME

(51) International classification	:C07C0017380000, G11B0007005000, G11B0007090000, G02F0001225000, B65D0047240000	(71) Name of Applicant : 1)INSTITUTE OF NANO SCIENCE AND TECHNOLOGY (INST) Address of Applicant :Habitat Centre, Phase-10, Mohali-160062, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Govindasamy JAYAMURUGAN
(33) Name of priority country	:NA	2)Vijayendran GOWRI
(86) International Application No	:NA	3)Sachin JALWAL
Filing Date	:NA	4)Arif Hassan DAR
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to urea/thiourea bearing 2,3-disubstituted 1,1,4,4- tetracyanobutadienes based push-pull chromophores, method of preparing the same and use thereof. The present disclosure also relates to a method of fluoride (F⁻) detection and a fluoride (F⁻) detection system comprising highly selective push-pull chromophore sensor for qualitative and quantitative detection of fluoride (F⁻). The present disclosure also relates to a kit comprising the said fluoride (F⁻) detection system.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028601 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : CONTINUOUS FLOW (PASS-THROUGH) ULTRAVIOLET LIGHT ILLUMINATED DISINFECTION SYSTEM

(51) International classification	:A61L0002100000, A61L0002240000, C02F0001320000, A61L0002000000, B41M0005000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE Address of Applicant :Roorkee, Uttarakhand India (72) Name of Inventor : 1)DR. VIMAL CHANDRA SRIVASTAVA 2)MR. NAVNEET KUMAR
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present invention provides a continuous flow (pass-through) ultraviolet light (UV) illuminated disinfecting/sterilization system (100) having (i) an enclosure defining a UV radiation chamber (10) having space therein, (ii) a moving platform/conveying system (11) and (iii) an inlet (1) and outlet (2) section/chamber for sending and receiving object to be sterilized, a running control unit (6) and whole system retains on a stand (7). The UVC radiation chamber (10) is fitted with UVC light, UVC light-emitting diode (LED) array, pulsed xenon UV and far-UVC. UV radiation chamber (10) also includes exhaust fans (3) at the top and bottom wall of the radiation chamber (10) to remove any heat or gas if generated, a control panel (4), temperature indication means (5) having a thermometer for temperature monitoring. The chamber (10) is illuminated from top UVC tubes (8), bottom UVC tubes (9)

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028643 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : N - [4 - (TRIFLUOROMETHOXY) BENZYLIDENE) NICOTINOHYDRAZIDE COMPOSITION FOR ORAL ADMINISTRATION.

(51) International classification	:A61K0031551300, A61K0031513000, A61K0031277000, A61K0031330000, A61K0009480000	(71)Name of Applicant : 1)Dr. Reema Sinha Address of Applicant :F-101, AVJ Heights, Sector Zeta-1, Greater Noida 201306 Uttar Pradesh India 2)Dr. Sandeep Kumar Bansal 3)Dr. Shardendu Kumar Mishra 4)Dr. Rahul Kaushik
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Reema Sinha
(33) Name of priority country	:NA	2)Dr. Sandeep Kumar Bansal
(86) International Application No	:NA	3)Dr. Shardendu Kumar Mishra
Filing Date	:NA	4)Dr. Rahul Kaushik
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to N - [4 - (trifluoromethoxy) benzylidene) nicotinohydrazide composition for oral administration. Specifically, the invention relates to method of administration of N - [4 - (trifluoromethoxy) benzylidene) nicotinohydrazide and the use thereof in the treatment of refractory epilepsy.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028736 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : AN EXHAUST MUFFLER FOR REDUCING EXHAUST NOISE

(51) International classification	:F01N0001080000, F01N0013180000, F01N0001020000, F01N0001240000, G02B0001100000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HEMENDRA SINGH
(33) Name of priority country	:NA	2)VIVEK SINGH
(86) International Application No	:NA	3)DINESH SINGH DHANKHAR
Filing Date	:NA	4)DEEPAK RANA
(87) International Publication No	: NA	5)MUGUNDARAM R
(61) Patent of Addition to Application Number:	:NA	6)DEEPAK PANDA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The subject matter of the present invention discloses structure of an exhaust muffler for reducing exhaust noise. The exhaust muffler includes a muffler shell (400) comprising a front conical frustum shape member (402) having an end portion (404) and a base portion (406); and a rear conical frustum shape member (408) having an end portion (410) and a base portion (412). The base portion (406) of the front conical frustum shape member (402) is joined with the base portion (412) of the rear conical frustum shape member (408) to define structure of the muffler shell (400).

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028755 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SAFETY HELMET DEVICE

(51) International classification	:G06F0003160000, G06T0019000000, G10L0015220000, G06F0021620000, A42B0003040000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ginni Arora
(33) Name of priority country	:NA	2)AJAY RANA
(86) International Application No	:NA	3)ROHIT GUPTA
Filing Date	:NA	4)Akshansh Kumar
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a safety helmet device. The helmet device includes a microcontroller 2 for processing a set of input, a transmitter adapted to act as an ignition key for activating a two-wheeler engine, a receiver adapted to act as a lock inside the two-wheeler engine, a voice assistant unit 3 for providing 7 a voice command to activate a plurality of pre-defined operations, a plurality of sensors 4 for analyzing various human body parameters. Further, the microcontroller is configured to connect with an Augmented Reality AR visor display 1 to show a navigation map to a user and the microcontroller is configured to receive the set of input from the plurality of sensors and a microphone for processing an audio command raised by the user for a particular operation.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202013027909 A

(19) INDIA

(22) Date of filing of Application :01/07/2020

(43) Publication Date : 07/01/2022

(54) Title of the invention : FULLY AUTOMATIC ON-SITE REFUELLING SYSTEM AND METHOD FOR VEHICLES/STATIONARY EQUIPMENT

(51) International classification	:G07F0013020000, G06Q0020200000, B67D0007140000, B67D0007040000, G07G0001000000	(71) Name of Applicant : 1)Surana, Prasan Address of Applicant :AM1101, SUPERTECH 34 PAVILION, SECTOR – 34, NOIDA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Surana, Prasan
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:		
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fully automated on site refuelling system and method for vehicles/ stationary equipment comprising controller (1) to control the flow of the fuel, a WIFI enabled Router with GPS and 4G (2), Magnetic Stripe Card Reader(3), Cloud based server (4), Fuel Dispenser (5), Relay Board (6), Automatic Tank Gauge (7),(7A), RF Module (8), Manhole Electronic Locks with status (9), Nozzle Switch (10), POS Device (11), Printer (12), Solenoid Valve (13), (13A), Automated Receipt Printing, Automated intimation of Order status on App/SMS/Email, Instant Invoicing, Geo Fencing, Integration with RFID Tags, Real Time data sync with cloud; Said controller (1) working on Cards, which can be manually swiped on the POS or the card specific IDS can be manually entered from the keypad. Several modes are being used in method comprising DISPENSE MODE; RECEIVE FUEL MODE; FRESH DISPENSE MODE; REPRINT RECEIPT MODE; BALANCE ENQUIRY MODE; RECEIVE PAYMENT MODE.

No. of Pages : 31 No. of Claims : 20

(54) Title of the invention : HIGH-CONCENTRATION ORGANIC WASTEWATER TREATMENT REACTOR

(51) International classification	:C12M0001107000, C02F0001000000, B01D0053140000, C12M0001000000, B01D0053180000	(71)Name of Applicant : 1)GUANGXI BOSSCO ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD. Address of Applicant :No. 12, Kexing Road, Gaoxin Zone, Nanning, Guangxi 530007, China China
(31) Priority Document No	:CN201910544409.2	(72)Name of Inventor :
(32) Priority Date	:21/06/2020	1)SONG, Hainong
(33) Name of priority country	:China	2)ZHU, Hongxiang
(86) International Application No	:PCT/CN2019/094762	3)CHEN, Guoning
Filing Date	:04/07/2020	4)YANG, Qifeng
(87) International Publication No	: NA	5)LU, Lihai
(61) Patent of Addition to Application Number	:NA	6) LIANG, Chuanshun
Filing Date	:NA	7)LIU, Xi
(62) Divisional to Application Number	:NA	8)CHEN, Yongli
Filing Date	:NA	9)HUANG, Bufeng
		10)DU, Lei
		11) HE, Chunhong
		12)WANG, Zhihong

(57) Abstract :

The present invention discloses a high-concentration organic wastewater treatment reactor. A lower water distribution system, an upper water distribution system, a lower three-phase separator and an upper inclined plate separator are provided from bottom to top in a reactor body of the high-concentration organic wastewater treatment reactor. A gas-liquid separator is disposed on the top of the reactor body. The lower water distribution system and the upper water distribution system are connected to an influent pipe. A lower biogas ascending pipe connected to the gas-liquid separator is disposed on the top of the lower three-phase separator. An upper biogas ascending pipe and an effluent pipe are disposed above the upper inclined plate separator. An outlet end of the upper biogas ascending pipe is connected to the gas-liquid separator. A downcomer is disposed on the bottom of the gas-liquid separator. An air pipe is disposed on the top of the gas-liquid separator. The reactor of the present invention has the characteristics of low energy consumption, good effluent water quality, large biogas production, and no odor, is capable of enhancing the even water distribution and fully mixing sludge and water, have a high removal efficiency of pollutants. Moreover, an internal circulating water dilutes influent water. A system having a strong impact resistance ability and a reactor being operated stably for a long term are achieved.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114007372 A

(19) INDIA

(22) Date of filing of Application :22/02/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MASK APPARATUS

(51) International classification	:A62B0009000000, B29L0031300000, F16C0033720000, F16J0015060000, B63H0023320000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2020-0080437	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)Chiyoung CHOI
(33) Name of priority country	:Republic of Korea	2)Taeun HEO
(86) International Application No	:NA	3)Hojung KIM
Filing Date	:NA	4)Wansu YOUN
(87) International Publication No	: NA	5)Sangkyun BAEK
(61) Patent of Addition to Application Number	:NA	6)Yeongcheol MUN
Filing Date	:NA	7)Keonwang LEE
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MASK APPARATUS A mask apparatus including a mask body that defines a communication hole, a sensor mounting portion that extends from a front surface of the mask body, that surrounds the communication hole, and that defines an installation space therein, a seal coupled to a rear surface of the mask body and configured to define a breathing space between the mask body and a user, a pressure sensor accommodated in the installation space and configured to sense air pressure inside the breathing space that is in communication with the communication hole, and a film disposed in the installation space and configured to restrict permeation of moisture from the breathing space into the installation space through the communication hole.

No. of Pages : 112 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114019849 A

(19) INDIA

(22) Date of filing of Application :30/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ELECTRONIC DEVICE AND METHOD OF OPERATING THE SAME

(51) International classification	:H01L0051050000, H01L0029786000, H01L0029660000, H01L0051000000, H01L0051520000	(71) Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2020-0081503	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)Taewon DO
(33) Name of priority country	:Republic of Korea	2)Yongtae KIM
(86) International Application No	:NA	3)Hoonjae LEE
Filing Date	:NA	4)Hyeyoung JUN
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device and a method of operating the same are provided. The electronic device includes a communication circuit configured to transmit or receive data using a call channel established through a call connection with an external electronic device, and a processor configured to transmit content, which is pre-processed using a first transmission filter, to the external electronic device through the call channel, receive a first real-time control protocol (RTCP) message transmitted by the external electronic device through the call channel, identify a status of the call channel, based on the first RTCP message, determine whether or not to perform an operation of pre-processing the content to be transmitted to the external electronic device using a second transmission filter, transmit a second RTCP message using the second transmission filter to the external electronic device, and perform transmission of the content, based on the second transmission filter.

No. of Pages : 79 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114022261 A

(19) INDIA

(22) Date of filing of Application :18/05/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ALUMINUM ALLOY FASTENING MEMBER, FASTENER CHAIN AND METHOD FOR PRODUCING ALUMINUM ALLOY FASTENING MEMBER

(51) International classification	:A44B0019420000, A44B0019580000, B29L0005000000, C22C0021100000, C22C0021000000	(71) Name of Applicant : 1)YKK CORPORATION Address of Applicant :1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642 Japan Japan
(31) Priority Document No	:2020-116565	(72) Name of Inventor :
(32) Priority Date	:06/07/2020	1)URITA, Yuki
(33) Name of priority country	:Japan	2)OGIHARA, Atsushi
(86) International Application No	:NA	3)TSUCHIDA, Shigeru
Filing Date	:NA	4)HIROMI, Chikako
(87) International Publication No	: NA	5)ARA, Ryota
(61) Patent of Addition to Application Number	:NA	6)NAGASAWA, Sohei
Filing Date	:NA	7)KATORI, Mitsuomi
(62) Divisional to Application Number	:NA	8)HOSAKA, Misako
Filing Date	:NA	

(57) Abstract :

Provided is an aluminum alloy fastening member having a novel chemical conversion coating as a colored coating, a fastener chain, and a method for producing the aluminum alloy fastening member. The aluminum alloy fastening member includes a chemical conversion coating containing manganese as a component element, and the chemical conversion coating satisfies hue ranges of $-3 < a < 12$, $-5 < b < 35$, and $45 < L < 80$ in a CIELAB color space as defined by JIS Z 8781-4 (2013).

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114022860 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FAN WHEEL WITH THREE-DIMENSIONALLY CURVED IMPELLER BLADES

(51) International classification	:F04D0029280000, F04D0029440000, B29C0045140000, B65H0029400000, F01D0005040000	(71) Name of Applicant : 1)EBM-PAPST MULFINGEN GMBH & CO. KG Address of Applicant :BACHMÜHLE 2 MULFINGEN GERMANY 74673 Germany
(31) Priority Document No	:10 2020 114 387.7	(72) Name of Inventor : 1)Daniel Gebert
(32) Priority Date	:28/05/2020	
(33) Name of priority country	:Germany	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a fan wheel (1) with a bottom disc (4), a cover disc (3) and impeller blades (2) arranged around a rotation axis (RA) of the fan wheel (1), which blades in each case extend over a blade length from a blade leading edge (5) to a blade trailing edge (6), wherein the impeller blades (2) are divided into a front section (10) which extends proceeding from the blade leading edge (5) in the direction of the blade trailing edge (6), a rear section (12) which extends proceeding from the blade trailing edge (6) in the direction of the blade leading edge (5), and a transition section (11) which forms a transition between the front section (10) and the rear section (12), and wherein the impeller blades (2) are formed with opposite curvature in the course from the bottom disc (4) to the cover disc (3) in the front section (10) and the rear section (12).

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114024575 A

(19) INDIA

(22) Date of filing of Application :02/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ELECTRICAL CONNECTOR GROUP PROVIDED WITH INTEGRATED VENT VALVE AND RELATED MAKING AND ASSEMBLING METHOD, IN PARTICULAR IN THE AUTOMOTIVE FIELD

(51) International classification	:H01R0043180000, B60R0011000000, A61B0050300000, H05K0005020000, H01R0013730000	(71) Name of Applicant : 1)MARELLI EUROPE S.P.A. Address of Applicant :Viale Aldo Borletti, 61/63, I-20011 Corbetta, MILANO, Italy Italy
(31) Priority Document No	:IT 102020000016015	(72) Name of Inventor : 1)PLAZIO, Adriano 2)DEJI, Razvan-Vasile 3)MAGGIONI, Davide
(32) Priority Date	:02/07/2020	
(33) Name of priority country	:Italy	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electrical connector group (4) comprising a connector body (8) shaped to allow electrical connection with external components, the connector body (8) delimiting an inner volume (12), a plurality of electrical contacts (16) housed in said inner volume (12) and connected to the connector body (8) and to at least one internal electrical/electronic circuit or component (28), at least one closing lid (32) of the connector body (8), covering and hermetically sealing the inner volume (12), at least one vent valve (36) fluidically connected to the inner volume (12), of the one-way type, so as to allow only the exit of fluids from the inner volume (12) to the outside, in which the vent valve (36) comprises a valve head (40), integral with the connector body (8) and coupled, by means of a shape coupling, with a seat (44) of said closing lid (32), in order to perform a fixing and a centring of the closing lid (32) with respect to the connector body (8).

No. of Pages : 31 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114024712 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : POSITION SENSOR

(51) International classification	:G02B0006125000, A61B0005060000, G01G0007040000, F15B0015280000, F16H0059700000	(71) Name of Applicant : 1)MIKUNI CORPORATION Address of Applicant :13-11, Sotokanda 6-Chome, Chiyoda- ku, Tokyo 1010021, Japan Japan
(31) Priority Document No	:2020-114578	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)FUKUI, Terumi
(33) Name of priority country	:Japan	2)IWASAKI, Takeshi
(86) International Application No	:NA	3)ONO, Yurie
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A position sensor 1 includes a board 2, a resistance film 4 having a single layer constitution and disposed in an arc shape on the board 2, and a slider 6 for sliding on a surface 5 of the resistance film 4. The resistance film 4 includes carbon powder 31 at least partly formed by carbon fibers 32. The carbon fibers 32 have a mean particle size of not less than 2 urn and not greater than 8 urn.

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114025645 A

(19) INDIA

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SPRINKLER WITH MODULAR COMPONENTS AND POP UP DEFLECTOR WITH LUG(S) FOR ROTATIONAL ENGAGEMENT

		202121051162
(51) International classification	:B05B0003060000, B05B0003000000, B05B0015650000, B05B0001320000, B05B0003040000	
(31) Priority Document No	:16/920,952	
(32) Priority Date	:06/07/2020	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A sprinkler includes a pop up deflector plate that is engageable with a brake assembly in an extended position. A brake module is secured to a sprinkler body and includes a rotatable connector coupled with the brake assembly. The pop up deflector plate is disposed adjacent the nozzle and engages the rotatable connector in the extended position.

No. of Pages : 38 No. of Claims : 19

(54) Title of the invention : MUD GUARD

(51) International classification	:B62J0015000000, B62D0025180000, B62J0015020000, B62J0015040000, B62D0025160000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2020-114955	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)Takehiro MIYAZAKI
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a mudguard capable of reducing the air resistance of a vehicle while suppressing increase in a housing space for the mudguard behind a wheel. [Solution] A mudguard 10 according to the present invention includes a first facing part 11 facing a rear side part of a wheel 2 of a vehicle 1 when the wheel 2 is located at a turn position, and a second facing part 12 facing the rear side part of the wheel 2 when the wheel 2 is located at a straight-ahead position. The first facing part 11 includes a first inclined part 111 inclined to a vehicle rear side toward a vehicle lower side, and the second facing part 12 is disposed at an inclination smaller than an inclination degree of the first inclined part 111 relative to a vehicle up-down direction.

No. of Pages : 42 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114026104 A

(19) INDIA

(22) Date of filing of Application :11/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : APPARATUS FOR FORMING GLASS TUBES, A HEATING CHAMBER AND A PROCESS FOR THE MANUFACTURE OF AN APPARATUS FOR FORMING GLASS TUBES

(51) International classification	:F24C0015320000, H05B0006700000, F27B0009240000, C03B0023030000, B01J0002000000	(71) Name of Applicant : 1)Schott AG Address of Applicant :Hattenbergstraße 10, 55122 Mainz (DE) Germany
(31) Priority Document No	:20 183 650.9	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)OLLIG, Markus
(33) Name of priority country	:EPO	2)RIECKE, Arne
(86) International Application No	:NA	3)TRINKS, Volker
Filing Date	:NA	4)EICHHOLZ, Rainer
(87) International Publication No	: NA	5)LANGE, Ulrich
(61) Patent of Addition to Application Number	:NA	6)STARK, Sebastian
Filing Date	:NA	7)TRATZKY, Stephan
(62) Divisional to Application Number	:NA	8)SCHMID, Rainer
Filing Date	:NA	9)BAGARIS, Wassilis
		10)GMEINER, Reinhard

(57) Abstract :

An apparatus (1) for forming glass tubes comprising a heating chamber (2), a Danner-pipe (3) and at least one heating device (4), wherein said Danner-pipe (3) and said at least one heating device (4) are arranged inside of said heating chamber (2), wherein said Danner-pipe (3) is inclined with respect to a horizontal plane (10) by a Danner-angle (11), and wherein that said heating device (4) is inclined with respect to said horizontal plane (10) by a heating-angle (13). Further, a heating chamber (2) and a process for the manufacture of such an apparatus (1) are disclosed.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114026545 A

(19) INDIA

(22) Date of filing of Application :15/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ARRANGEMENT, CIRCUIT BREAKER AND PRECHARGING DEVICE FOR A DC POWER NETWORK

(51) International classification	:H02H0007160000, H02H0009020000, H02H0007260000, H02H0003040000, H02J0003260000	(71) Name of Applicant : 1)Eaton Intelligent Power Limited Address of Applicant :Eaton House, 30 Pembroke Road, Dublin 4, Ireland Ireland
(31) Priority Document No	:2009938.8	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)Hauer Wolfgang
(33) Name of priority country	:U.K.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An arrangement (1a..11) with a circuit breaker (20) and a precharging device (21) is disclosed, where two series capacitors (C1, C2) are connected to a direct current power network (DC) and where the arrangement (1a..11) comprises a circuit switch control unit (SCU), which is designed to open a circuit switch (SC) in case of overcurrent and/or upon manual intervention, a load control unit (LCU), which is designed to limit a load current of the two series capacitors (C1, C2) by use of a high ohmic path (4), and a balance control unit (BCU), which is designed to measure a capacitor voltage (V1, V2) of each of the two series capacitors (C1, C2) and to avoid or limit and an imbalance of these capacitor voltages (V1, V2) by individually controlling currents through the two series capacitors (C1, C2).

No. of Pages : 48 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114026581 A

(19) INDIA

(22) Date of filing of Application :15/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : IMAGING LENS ASSEMBLY

(51) International classification	:G02B0013000000, G02B0009600000, G02B0015173000, G02B0013240000, H04N0005225000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICS CO., LTD. Address of Applicant :NO.67-69 Fengle Road,Yuyao Ningbo,Zhejiang 315400 China China
(31) Priority Document No	:2020106307748	(72) Name of Inventor :
(32) Priority Date	:03/07/2020	1)FUJIAN DAI
(33) Name of priority country	:China	2)LIEFENG ZHAO
(86) International Application No	:NA	3)YI ZHANG
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure provides an imaging lens assembly, which sequentially includes, a movable diaphragm, a first lens, a second lens with, a third lens with a refractive power, a fourth lens with a positive refractive power and a fifth lens with a refractive power, wherein an effective focal length f_1 of the first lens and an effective focal length f_4 of the fourth lens meet 1.0

No. of Pages : 102 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114027207 A

(19) INDIA

(22) Date of filing of Application :18/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM FOR PROVIDING SOFTWARE DEVELOPMENT ENVIRONMENT, METHOD FOR PROVIDING SOFTWARE DEVELOPMENT ENVIRONMENT, AND NON-TRANSITORY COMPUTER READABLE MEDIUM

(51) International classification :G06F0008200000,
G06F0008300000,
G06Q0099000000,
G06F0008710000,
G09F0009300000

(31) Priority Document No :2020-114205

(32) Priority Date :01/07/2020

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)YOKOGAWA ELECTRIC CORPORATION
Address of Applicant :9-32, Nakacho 2-chome, Musashino-shi,, Tokyo 180-8750, Japan Japan

(72)**Name of Inventor :**
1)Abe Koh

(57) Abstract :

A system for providing a software development environment, a method for providing a software development environment, and a non-transitory computer readable medium that can improve the convenience of a user interface of a software development environment are provided. A display is configured to display a user interface on which the plurality of development components is placed. A controller is configured to change a display form of each development component and display each development component on the display in accordance with a request to change a display magnification. Each development component is displayed in a display form that includes less information when the display magnification is below a predetermined magnification than when the display magnification is equal to or greater than the predetermined magnification, and each development component is displayed in a display form that includes a corresponding icon regardless of the display magnification.

No. of Pages : 45 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114027209 A

(19) INDIA

(22) Date of filing of Application :18/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM FOR PROVIDING SOFTWARE DEVELOPMENT ENVIRONMENT, METHOD FOR PROVIDING SOFTWARE DEVELOPMENT ENVIRONMENT, AND NON-TRANSITORY COMPUTER READABLE MEDIUM

(51) International classification	:G06F0008200000, G06F0008300000, G06Q0099000000, G06F0008710000, G09F0009300000	(71) Name of Applicant : 1)YOKOGAWA ELECTRIC CORPORATION Address of Applicant :9-32, Nakacho 2-chome, Musashino-shi,, Tokyo 180-8750, Japan Japan
(31) Priority Document No	:2020-114207	(72) Name of Inventor : 1)Abe Koh
(32) Priority Date	:01/07/2020	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system for providing a software development environment, a method for providing a software development environment, and a non-transitory computer readable medium that can improve the convenience of a user interface of a software development environment are provided. A system for providing a software development environment to develop software by combining a plurality of development components includes an information processing apparatus (30) that includes a display (35) and a controller (31). The display (35) is configured to display a user interface (200) on which the plurality of development components and a plurality of links connecting the development components to each other are placed. When one development component among the plurality of development components is selected, the controller (31) is configured to display links (401 to 403, 405) connected to the selected development component (305) on the display (35) in a display form with emphasis.

No. of Pages : 42 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114027905 A

(19) INDIA

(22) Date of filing of Application :22/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : GARMENT STRUCTURE HAVING ADJUSTMENT MECHANISM FOR ABUTTING AT LEAST ONE PAD UNIT FIRMLY AGAINST SKIN TO PROVIDE AT LEAST ONE OF ELECTROTHERAPY AND HEAT THERAPY

(51) International classification	:A61F0007000000, A61N0001040000, A61F0007020000, A61N0001320000, A61B0005000000	(71) Name of Applicant : 1)Ho, Hoi Ming Michael Address of Applicant :H2, The Terrace at The Bloomsway, 28 Tsing Ying Road, Tuen Mun, NT., Hong Kong Hongkong(China)
(31) Priority Document No	:202010631822.5	(72) Name of Inventor : 1)Ho, Hoi Ming Michael
(32) Priority Date	:03/07/2020	
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A garment structure having an adjustment mechanism for abutting at least one pad unit against a human body includes a garment body, at least one adjustment belt, and at least one pad unit being an electrode pad unit, a heating pad unit, or an electrode pad unit with a heating unit. The adjustment belt has one end connected to the garment body, and another end fixed to an outer surface of the garment body. When the adjustment belt is pulled tight, the garment body is dragged to move toward the skin. The pad unit is disposed on the garment body, and moves, along with a portion of the garment body being dragged, to abut against the skin. A user wearing the garment structure can pull and secure the adjustment belt to enable the pad unit to easily and quickly abut against the skin to proceed with electrotherapy and/or heat therapy.

No. of Pages : 48 No. of Claims : 14

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:G06F0003041000, G02B0027010000, G09F0009300000, B60K0035000000, G09G0005000000	(71) Name of Applicant : 1)LG Display Co., Ltd. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2020-0080576	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)SHIN, Sung Soo
(33) Name of priority country	:Republic of Korea	2)RYU, Won Sang
(86) International Application No	:NA	3)LEE, Sang Gul
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a display device (100) including a substrate including display and nondisplay areas, a first thin-film transistor (200) located in the non-display area, and second and third thin-film transistors (200, 300) located in the display area. The second thin-film transistor (400) includes second and third semiconductor patterns including a first oxide semiconductor, a second gate electrode (410) overlapping the second semiconductor pattern, a third gate electrode (413) overlapping the third semiconductor pattern, and second source and second drain electrodes (415) connected to the second and third semiconductor patterns. The third thin-film transistor (300) includes a fourth semiconductor pattern including a first oxide semiconductor, a fourth gate electrode (311) overlapping the fourth semiconductor pattern, and third source and third drain electrodes connected to the fourth semiconductor pattern.

No. of Pages : 55 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028281 A

(19) INDIA

(22) Date of filing of Application :23/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ULTRASONIC WATER-AGNOSTIC TOUCH DETECTION SENSOR

(51) International classification	:G06F0003041000, G06F0003044000, G06F0003043000, G03B0013360000, G06F0003046000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:16/917,779	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)KHAJEH, Ehsan
(33) Name of priority country	:U.S.A.	2)KING, Brian Michael
(86) International Application No	:NA	3)MAK, George Ho YinQ
Filing Date	:NA	4)YIP, Marcus
(87) International Publication No	: NA	5)GOZZINI, Giovanni
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An ultrasonic touch sensing system that uses both compressional and shear waves for touch and water detection is disclosed. When no touch or water is present, less shear and compressional wave energy is absorbed, so both shear and compressional wave reflections do not have significant amplitude decreases. When a finger is in contact with the sensing plate, both shear and compressional wave energy is absorbed, so both shear and compressional wave reflections have significant amplitude decreases. When water is in contact with the sensing plate, compressional energy is absorbed but little or no shear wave energy is absorbed, so while compressional wave reflections have significant amplitude decreases, shear wave reflections do not. From these amplitudes, a determination can be made as to whether no touch is present on the sensing plate, whether a touch is present on the sensing plate, or whether water is present on the sensing plate.

No. of Pages : 80 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028368 A

(19) INDIA

(22) Date of filing of Application :24/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : TRANSPORT OF A MOVIE IN MULTIPLE FRAME RATES TO A FILM AUDITORIUM

(51) International classification	:H04N0021258000, H04L0029060000, H04W0072040000, H04N0021854000, H04N0007010000	(71) Name of Applicant : 1)J.M.S. SAS Address of Applicant :149 avenue du Maine, 75014 Paris, France France
(31) Priority Document No	:EP20183222.7	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)LEJEUNE, Cédric
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a package of computer files (30), preferably a DCP, which includes images for playing a movie at two frame rates. The images (11) for the lower frame rate are in a first computer file (31), i.e. in a first MXF container, and the images (12) for the higher frame rate are in a second computer file (32), i.e. in a second MXF container. The package of computer files (30) also includes a first CPL with first pieces (61) of information, for the lower frame rate, and a second CPL with second pieces (62) of information, for the higher frame rate.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028470 A

(19) INDIA

(22) Date of filing of Application :24/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : POWERED SYSTEM WITH PASSIVE FILTER FOR AN ENERGY STORAGE DEVICE

(51) International classification	:H02J0003010000, H02M0003158000, H02J0009060000, H02M0007483000, H01J0037050000	(71) Name of Applicant : 1)Transportation IP Holdings, LLC Address of Applicant : 901 Main Avenue, Norwalk, Connecticut, 06851 U.S.A. U.S.A.
(31) Priority Document No	:63/045,972	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)Nikhil Edlabadkar
(33) Name of priority country	:U.S.A.	2)Ajith Kuttannair Kumar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system may be provided that includes an energy storage device, and an inverter electrically coupled to the energy storage device. The system also includes a passive filter electrically coupled between the energy storage device and the inverter. The passive filter includes a first coupled-inductor and at least one first bypass capacitor. The first coupled-inductor includes at least two magnetically coupled windings. The passive filter is configured to reduce or eliminate alternating current at the energy storage device

No. of Pages : 37 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028503 A

(19) INDIA

(22) Date of filing of Application :24/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MULTI- FREQUENCY BAND COMMUNICATION BASED ON FILTER SHARING

(51) International classification	:H04Q0003000000, H04B0001000000, H04L0025030000, H01Q0001240000, H04L0027340000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:16/917,325	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)LIN, Saihua
(33) Name of priority country	:U.S.A.	2)WANG, Hongrui
(86) International Application No	:NA	3)EMAMI-NEYESTANAK, Sohrab
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to systems and methods for operating transceiver circuitry to transmit or receive signals on various frequency ranges. To do so, a transmitter or a receiver of the transceiver circuitry is selectively coupled to or uncoupled from an antenna of the transceiver circuitry. Additionally, radio frequency filters may be individually or collectively coupled to and/or uncoupled from the antenna to filter different frequencies in the transmitting or receiving signals.

No. of Pages : 60 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028621 A

(19) INDIA

(22) Date of filing of Application :25/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PROCESS FOR PREPARING (1R,2S)-1-(6-BROMO-2-METHOXYQUINOLIN-3-YL)-4-DIMETHYLAMINO-2-(1-NAPHTHYL)-1-PHENYL-BUTAN-2-OL AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF

(51) International classification	:C07C0215520000, C07D0281080000, C07D0295088000, C07C0309000000, C07D0277200000	(71) Name of Applicant : 1)DONG-A ST CO., LTD. Address of Applicant :64, Cheonho-daero, Dongdaemun-gu, Seoul 02587, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2020-0081133	(72) Name of Inventor :
(32) Priority Date	:01/07/2020	1)KIM, Yong Jik
(33) Name of priority country	:Republic of Korea	2)KIM, Jaehan
(86) International Application No	:NA	3)SHIN, Chang-Yong
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for preparing (iR,2S)-i-(6-bromo-2-methoxyquinolin-3-yl)-4-dimethylamino-2-(i-naphthyl)-i-phenyl-butan-2-ol or pharmaceutically acceptable salts thereof, the method comprising: separating (iR,2S)-i-(6-bromo-2-methoxyquinolin-3-yl)-4-dimethylamino-2-(i-naphthyl)-i-phenyl-butan-2-ol which maybe mass-produced with an economical preparation process and at a high yield.

No. of Pages : 28 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028710 A

(19) INDIA

(22) Date of filing of Application :25/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INDUSTRIAL CONTROL SYSTEM HAVING MULTI-LAYERED CONTROL LOGIC EXECUTION

(51) International classification	:G05B0019418000, G05B0019042000, G05B0019409000, G05B0015020000, G05B0019050000	(71) Name of Applicant : 1)HONEYWELL INTERNATIONAL INC. Address of Applicant :Intellectual Property Services Group 300 S. Tryon Street, Suite 600 Charlotte, North Carolina 28202, United States of America U.S.A.
(31) Priority Document No	:63/047,049	(72) Name of Inventor :
(32) Priority Date	:01/07/2020	1)Paul Francis McLaughlin
(33) Name of priority country	:U.S.A.	2)Nagaraja Sundaresh
(86) International Application No	:NA	3)Joseph Pradeep Felix
Filing Date	:NA	4)Jethro Francis Steinman
(87) International Publication No	: NA	5)Ram Mohan Anugu
(61) Patent of Addition to Application	:NA	6)Jason Thomas Urso
Number	:NA	7)Joseph J Pane
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process control system (200) includes a process controller level (240) including at least one process controller (121, 122), and an input/output (I/O) module level (230) including at least one I/O module (231, 232, 233). The process controller level and the I/O module level are communicatively coupled and each include control logic comprising control hardware or algorithm blocks (120a, 120b, and 235a, 235b, 235c). The control logic in the process controller level and the I/O module level are configured to execute and exchange data to perform process control for a process run by the process control system in a distributed fashion across the process controller level and the I/O module level.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028788 A

(19) INDIA

(22) Date of filing of Application :26/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR RECOVERING AND REUSING GRAYWATER

(51) International classification	:E03B0001040000, G06F0016958000, F28D0021000000, C02F0103000000, F24F0140400000	(71) Name of Applicant : 1)Kohler (China) Investment Co., Ltd. Address of Applicant :No. 158 Jiangchangsan Road Shibe Industrial Park Jing'an District Shanghai, P.R. China, 200436 China
(31) Priority Document No	:202010619856.2	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)Bojian HAN
(33) Name of priority country	:China	2)Taiwoon WOON
(86) International Application No	:NA	3)Yinting YOU
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system for recovering and reusing graywater generated from at least one graywater source in a building. The system includes a controller configured to control recovery and reuse of the graywater; a graywater recovery device communicably coupled to the controller and configured to recover the graywater from the graywater source of the building; and a graywater distributor communicably coupled to the controller, connected to the graywater recovery device, and configured to distribute the recovered graywater to at least one target position in the building for reuse, wherein the controller controls the graywater recovery device to deliver the graywater to the graywater distributor according to a control signal sent by a user, and the controller controls the graywater distributor to deliver the graywater to a target position designated by the user for reuse according to a control signal sent by the user.

No. of Pages : 64 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028789 A

(19) INDIA

(22) Date of filing of Application :26/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : RECYCLED WATER SYSTEM

(51) International classification	:C02F0001000000, E04B0002740000, E03B0001040000, C02F0009000000, C02F0001780000	(71) Name of Applicant : 1)Kohler Co. Address of Applicant :444 Highland Drive, Kohler, Wisconsin 53044, USA U.S.A.
(31) Priority Document No	:63/045,970	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)Niels Eilmus
(33) Name of priority country	:U.S.A.	2)Chanseol Chung
(86) International Application No	:NA	3)Clayton Garrels
Filing Date	:NA	4)William Kuru
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A modular wall frame for a recycled water system, the modular wall frame includes a horizontal frame module, a vertical frame module, a greywater tank coupled to the horizontal frame or the vertical frame, at least one water consuming appliance drain coupled to the horizontal frame module, and at least one water consuming appliance water input coupled to the vertical frame module.

No. of Pages : 54 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028864 A

(19) INDIA

(22) Date of filing of Application :28/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR TREATMENT OF SURFACES

(51) International classification	:C25D0003380000, B08B0003040000, H01L0021687000, B05D0001180000, G03B0013360000	(71) Name of Applicant : 1)Ewald Dörken AG Address of Applicant :Wetterstrasse 58 D - 58313 Herdecke, Germany Germany
(31) Priority Document No	:EP 20 183 973.5	(72) Name of Inventor :
(32) Priority Date	:03/07/2020	1)RABE, Christian
(33) Name of priority country	:EUROPEAN UNION	2)LENZMANN, Christian
(86) International Application No	:NA	3)MINAS, Hans-Jörg
Filing Date	:NA	4)SCHULZ-GAUS, Olav
(87) International Publication No	: NA	5)KURZE, Philipp
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The subject-matter of the present invention is a method and an apparatus for collectively treating the surfaces of a plurality of objects.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028878 A

(19) INDIA

(22) Date of filing of Application :28/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DISPLAY PANEL AND METHOD OF FABRICATING THE SAME

(51) International classification	:H01J0009020000, H01J0011120000, H01J0009240000, H01L0051560000, H01L0027120000	(71) Name of Applicant : 1)LG DISPLAY CO., LTD. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2020-0081557	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)JEONG, Duk Young
(33) Name of priority country	:Republic of Korea	2)NAM, Chul
(86) International Application No	:NA	3)SO, Byeong Seong
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a display panel (100) and a method of fabricating the same, and the display panel (100) includes a display region (DA) including a first pixel region where a plurality of pixels are disposed, a sensing region (CA) including a second pixel region where a plurality of pixel groups (PG) are disposed, and a light transmitting part (AG) disposed between the pixel groups (PG). At least the second pixel region includes a light shield layer (LS), and the light shield layer (LS) includes an opening hole (OP) corresponding to the light transmitting part.

No. of Pages : 79 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028879 A

(19) INDIA

(22) Date of filing of Application :28/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR PRODUCING A SYNCHRONIZER RING OR A CONICAL FRICTION CLUTCH WITH A FRICTION LINING, AND SYNCHRONIZER RING OR CONICAL FRICTION CLUTCH

(51) International classification	:F16D0023020000, F16D0023060000, F16D0013660000, F16D0013320000, F16D0013640000	(71) Name of Applicant : 1)Diehl Metall Stiftung & Co. KG Address of Applicant :Heinrich-Diehl-Str. 9, 90552 Röthenbach/BRD, Germany Germany
(31) Priority Document No	:10 2020 003 985.5	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)Burkhardt, Christoph
(33) Name of priority country	:Germany	2)Heider, Jochen
(86) International Application No	:NA	3)Sollner, Norbert
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method for producing a synchronizer ring or a conical friction clutch (4) with a friction lining (2), with the following steps: providing of a synchronizer ring (4) or of a clutch component with a cone face (5), providing of a planar friction material (1), cutting of the friction material (1), with the result that a strip-shaped friction lining (2) with two long sides (S1, S2) which lie opposite one another is formed, joining of the friction lining (2) onto the cone face (5), the friction material (1) being cut in such a way that the two long sides (S1, S2), which lie opposite one another, of the friction lining (2) have an identical geometry.

No. of Pages : 19 No. of Claims : 14

(54) Title of the invention : DRIVESHAFT

(51) International classification	:F16C0003020000, F16D0003380000, B64C0029000000, B60L0050160000, F16F0015140000	(71) Name of Applicant : 1)JTEKT CORPORATION Address of Applicant :5-8, Minamisemba 3-chome, Chuo-ku, Osaka-shi, Osaka 542-8502 Japan Japan
(31) Priority Document No	:2020-114237	(72) Name of Inventor :
(32) Priority Date	:01/07/2020	1)INABA Toshihiro
(33) Name of priority country	:Japan	2)YOSHIDA Satoshi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Lubrication structures for respective bearing parts (19b, 19d) of a second shaft part (17b) and a fourth shaft part (17d) have: vertical cup holes which extend through respective cups (20a, 20c) of a first shaft part (17a) and a third shaft part (17c) and open toward shaft end surfaces of the shaft parts (17a, 17c), and to which a lubricant is supplied; shaft-part relay holes (36) that are respectively provided in the first shaft part (17a) and the third shaft part (17c) and open in shaft end surfaces of the shaft parts (17a, 17c); supply pipes (70) which are each provided inside the vertical cup hole and the shaft-part relay hole (36) and to which a lubricant is supplied; and shaft-part outlet holes (38) that are respectively provided in the second shaft part (17b) and the fourth shaft part (17d), connect to the shaft-part relay holes (36), and open in shaft end surfaces of the shaft parts (17b, 17d).

No. of Pages : 46 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028940 A

(19) INDIA

(22) Date of filing of Application :28/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING SYSTEM

(51) International classification	:G06F0003041000, G06F0001320900, H04W0004800000, G06N0010000000, A63F0013285000	(71) Name of Applicant : 1)TOYOTA JIDOSHA KABUSHIKI KAISHA Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(31) Priority Document No	:2020-114026	(72) Name of Inventor :
(32) Priority Date	:01/07/2020	1)Shuhei YAMAMOTO
(33) Name of priority country	:Japan	2)Yurika TANAKA
(86) International Application No	:NA	3)Satoshi KOMAMINE
Filing Date	:NA	4)Hideo HASEGAWA
(87) International Publication No	: NA	5)Tomoya MATSUBARA
(61) Patent of Addition to Application Number	:NA	6)Ibuki SHIMADA
Filing Date	:NA	7)Keisuke SHOJI
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An information processing device (30) includes a controller (31). The controller (31) is configured to detect an obstruction present on a road, is configured to detect a user present within a predetermined distance from the obstruction that is detected, and is configured to transmit, to a terminal (20) of the user that is detected, a request to relocate the obstruction.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028942 A

(19) INDIA

(22) Date of filing of Application :28/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CONTROL DEVICE, NON-TRANSITORY STORAGE MEDIUM, AND CONTROL SYSTEM

(51) International classification	:G06F0011100000, H01L0021020000, F24F0011640000, H01L0021027000, C23C0016340000	(71) Name of Applicant : 1)TOYOTA JIDOSHA KABUSHIKI KAISHA Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(31) Priority Document No	:2020-115830	(72) Name of Inventor :
(32) Priority Date	:03/07/2020	1)Satoshi KOMAMINE
(33) Name of priority country	:Japan	2)Hideo HASEGAWA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A control device (30) includes a controller (33) configured to output, when a sign of starting a specific action by a user (4) is detected, a signal for switching an operation mode of a camera (20) from a first mode to a second mode different from the first mode. The camera (20) is configured to operate in the first mode in which data on a captured image generated by imaging an indoor place (3) is stored in the camera (20).

No. of Pages : 36 No. of Claims : 20

(54) Title of the invention : DIELECTRIC RESONATOR ANTENNA MODULES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H01Q0009040000, H01P0007100000, H01Q0001500000, B60R0021010000, H03B0005180000</p> <p>:16/920,297</p> <p>:02/07/2020</p> <p>:U.S.A.</p> <p>:NA :NA</p> <p>: NA</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.</p> <p>(72)Name of Inventor : 1)RAJAGOPALAN, Harish 2)AVSER, Bilgehan 3)GARRIDO LOPEZ, David 4)HASNAT, Forhad 5)PASCOLINI, Mattia 6)ASKARIAN AMIRI, Mikal 7)GOMEZ ANGULO, Rodney A. 8)YANG, Thomas W. 9)WU, Jiechen 10)NYLAND, Eric N. 11)PAULOTTO, Simone 12)EDWARDS, Jennifer M. 13)HILL, Matthew D. 14)CHOWDHURY, Ihtesham H. 15)HURRELL, David A. 16)YONG, Siwen 17)WU, Jiangfeng 18)WAGMAN, Daniel C. 19)AKBARZADEH, Soroush 20)SCRITZKY, Robert 21)RAMALINGAM, Subramanian</p>
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(57) Abstract :

An electronic device may be provided with an antenna module having a substrate. A phased antenna array of dielectric resonator antennas and a radio-frequency integrated circuit for the array may be mounted to one or more surfaces of the substrate. The dielectric resonator antennas may include dielectric columns excited by feed probes. The feed probes may be printed onto sidewalls of the dielectric columns or may be pressed against the sidewalls by biasing structures. A plastic substrate may be molded over each dielectric column and each of the feed probes in the array. The feed probes may cover multiple polarizations. The array may include elements for covering multiple frequency bands. The dielectric columns may be aligned a longitudinal axis and may be rotated at a non-zero and non-perpendicular angle with respect to the longitudinal axis.

No. of Pages : 92 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029078 A

(19) INDIA

(22) Date of filing of Application :29/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CONTROL DEVICE

(51) International classification	:B60Q0001140000, B60L0050510000, B60R0016020000, B60L0053160000, B60L0007140000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2020-112507	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)Kohei Nishi
(33) Name of priority country	:Japan	2)Ryohei Okawachi
(86) International Application No	:NA	3)Hiroataka Kato
Filing Date	:NA	4)Shingo Kobuna
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A control device included in an in-vehicle system (200) that includes: a battery (210) mounted on an electric vehicle; a switch (221) that controls energization and cutoff between the battery and an in-vehicle instrument (240, 250, 260); a connection determination portion (270) that outputs connection information related to an electrical connection state; a traveling sensor (283) that outputs traveling information related to a traveling state; and a contact sensor (281) that outputs contact information related to a contact possibility of a human with the battery, the in-vehicle instrument, and a path (211, 212) electrically connecting the battery and the in-vehicle instrument. The control device controls energization and cutoff of the switch based on the contact information and the traveling information.

No. of Pages : 35 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029121 A

(19) INDIA

(22) Date of filing of Application :29/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ELECTRIC TRACTION VEHICLE

(51) International classification	:B60L0003100000, B60K0006460000, B60L0003000000, B60L0009000000, B60L0058330000	(71) Name of Applicant : 1)ALSTOM Transport Technologies Address of Applicant :48 rue Albert Dhalenne, 93400 SAINT- OUEN-SUR-SEINE, FRANCE France
(31) Priority Document No	:20 07092	(72) Name of Inventor :
(32) Priority Date	:03/07/2020	1)CHANAL Pierre
(33) Name of priority country	:France	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to an electric traction vehicle (8) comprising: - an electric energy source (12), - an electric battery (20) recharged by the electric power source - a dehumidifying device (40) capable of dehydrating the air inside the vehicle and powered by the electric battery delivering a supply voltage - a humidity sensor (42) capable of measuring a humidity level of the air inside the vehicle, and - a control unit (43) connected between the dehumidifying device and the humidity sensor, having a release threshold and an engage threshold, the release threshold being lower than the engage threshold, and configured to start the dehumidifying device when the humidity level measured by the humidity sensor is higher than the engage threshold and to stop the dehumidifying device when the humidity level measured by the humidity sensor is lower than the release threshold.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029187 A

(19) INDIA

(22) Date of filing of Application :29/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DRIVE TRAIN HAVING A TWO-GEAR TRANSMISSION FOR AN ELECTRICALLY DRIVABLE MOTOR VEHICLE

(51) International classification	:F16H0003000000, F16H0003089000, B60K0001000000, F16H0003100000, F16H0061020000	(71) Name of Applicant : 1)Schaeffler Technologies AG & Co. KG Address of Applicant :Industriestr. 1-3, 91074 Herzogenaurach (DE) Germany
(31) Priority Document No	:10 2020 117 152.8	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)BARGAJE, Kedar
(33) Name of priority country	:Germany	2)AYYAPPATH, Prajod
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TA drive train is proposed having a two-gear transmission (10) for an electrically drivable motor vehicle, having an input shaft (12) which can be connected to an electric motor (34) for the introduction of a torque, an output shaft (18) which can be connected to a drive wheel (42) for the output of the torque, a first gear stage (14) for the transmission of a rotational speed of the input shaft (12) to the output shaft (18) at a first transmission ratio, having a first driving gearwheel (20) and a first driven gearwheel (22), a second gear stage (16) for the transmission of a rotational speed of the input shaft (12) to the output shaft (18) with a second transmission ratio different from the first transmission ratio, having a second driving gearwheel (24) and a second driven gearwheel (26), a first freewheel (28) which is assigned to the first gear stage (14), and a second freewheel (32) which is assigned to the second gear stage (16) and locks in the opposite direction to the first freewheel (28).

No. of Pages : 23 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029291 A

(19) INDIA

(22) Date of filing of Application :30/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CHARGING DEVICE AND CHARGING SYSTEM FOR VEHICLE BATTERY

(51) International classification	:H02J0007000000, G06F0001160000, G01R0031371000, F16F0009020000, B60L0050500000	(71) Name of Applicant : 1)EXEMPLAR FIELDS CO., LTD. Address of Applicant :NO. 132-5, DIANZAI, SHANJIA VIL., ZHUNAN TOWNSHIP, MIAOLI COUNTY 35058, TAIWAN (R.O.C.) Taiwan
(31) Priority Document No	:109122093	(72) Name of Inventor :
(32) Priority Date	:30/06/2020	1)CHEN, TSENG-YAO
(33) Name of priority country	:Taiwan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A charging device (110) configured to charge the first battery (A, C, E) or the second battery (B, D, F) and a charging system (100) for vehicle battery (AF) are provided. The charging device (110) includes a box (116), a first connector (111, 411), a second connector (112, 412), and a dragging rod (115). The first battery (A, C, E) or the second battery (B, D, F) is adapted to be accommodated in the box. The first connector (111, 411) is disposed in the box (116) and reciprocates along a first moving path. The first connector (111, 411) is adapted to dock with the first battery (A, C, E). The second connector (112, 412) is disposed in the box (116) and reciprocates along a second moving path L2. The second connector (112, 412) is adapted to dock with the second battery (B, D, F). The first moving path (L1) and the second moving path (L2) are different from each other. The dragging rod (115) connects the first connector (111, 411) and the second connector (112, 412) such that first connector (111, 411) and the second connector (112, 412) are moved synchronously.

No. of Pages : 41 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029441 A

(19) INDIA

(22) Date of filing of Application :30/06/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INFORMATION PROCESSING METHOD, INFORMATION PROCESSING DEVICE,AND NON-TRANSITORY COMPUTER READABLE STORAGE MEDIUM

(51) International classification	:A61M0001160000, A61M0001360000, A61N0001378000, A61F0013420000, C12Q0001681600	(71) Name of Applicant : 1)Unicharm Corporation Address of Applicant :182, Shimobun, Kinsei-cho, Shikokuchuo-City, Ehime 7990111, Japan Japan
(31) Priority Document No	:2020-114342	(72) Name of Inventor :
(32) Priority Date	:01/07/2020	1)Yusuke NAKAMURA
(33) Name of priority country	:Japan	2)Yoshinori TANAKA
(86) International Application No	:NA	3)Takeshi SHIMAZU
Filing Date	:NA	4)Kuniyoshi KAWABATA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An information processing method according to the present application includes: acquiring intracorporeal information which is information regarding excretion in a body and extracorporeal information which is information different from the intracorporeal information and is information regarding the outside of the body; and predicting an excretion timing at which a wearer wearing an absorbent article is to excrete in future based on the intracorporeal information and the extracorporeal information.

No. of Pages : 158 No. of Claims : 29

(54) Title of the invention : VISIBILITY PACKAGING FOR ENERGY STORAGE ELEMENTS

(51) International classification	:H01M0002100000, H01M0002200000, F28D0020000000, H01L0027115210, H01G0011100000	(71) Name of Applicant : 1)VARTA Microbattery GmbH Address of Applicant :VARTA-Platz 1, 73479 Ellwangen Jagst, Germany Germany 2)VARTA Consumer Batteries GmbH & Co. KGaA
(31) Priority Document No	:20183715.0	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)Hessel, Otto
(33) Name of priority country	:EPO	2)Köhnlein, Dietmar
(86) International Application No	:NA	3)Regner, Werner
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A visibility packaging (100; 200) for energy storage elements (3) is proposed, having the following features: a. the visibility packaging (100; 200) is formed by at least one blank composed of a sheet material, with formation of a rear wall (1) and a front wall (2) of the visibility packaging, b. the front wall (2) is spaced apart from the rear wall (1) to form a receiving space (6) for the energy storage elements (3), c. the front wall (2) is provided with at least one viewing cutout (4), d. the front wall (2) comprises at least one web (9), and e. the web (9) has a central apex region (10) which is fixed to a contact region (40) of the rear wall (1), wherein the web (9) and the rear wall (1) together form a K-shaped cross section in a closure position and wherein the web (9) closes a removal opening of the receiving space (6). The visibility packaging is characterized by the following feature: f. the rear wall (1) has at least one perforation (30; 31; 32; 33) which delimits the contact region (40) from the rest of the rear wall (1) and which makes it possible to separate the contact region (40) from the rear wall (1), such that the web (9) can be transferred, by way of a folding operation, into a removal position in which the apex region (10) of the web (9) is spaced apart from the rear wall (1) and the web (9) frees the removal opening of the receiving space (6).

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029620 A

(19) INDIA

(22) Date of filing of Application :01/07/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : BUFFER INTERLAYERS IN MEMBRANELESS HIGH VOLTAGE BATTERIES

(51) International classification	:B04C0011000000, B03B0005620000, B04C0001000000, B03B0013000000, B60L0003040000	(71) Name of Applicant : 1)URBAN ELECTRIC POWER INC. Address of Applicant :401 North Middletown Road Building 155 Pearl River, New York 10965, United States of America U.S.A.
(31) Priority Document No	:63/047,351	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)YADAV, Gautam G.
(33) Name of priority country	:U.S.A.	2)UPRETI, Aditya
(86) International Application No	:NA	3)WEINER, Meir
Filing Date	:NA	4)HUANG, Jinchao
(87) International Publication No	: NA	5)WEI, Xia
(61) Patent of Addition to Application Number	:NA	6)BANERJEE, Sanjoy
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A membraneless battery comprising a cathode comprising a cathode electroactive material; an anode comprising an anode electroactive material; a catholyte in contact with the cathode, wherein the catholyte is not in contact with the anode; an anolyte in contact with the anode, wherein the anolyte is not in contact with the cathode; and one or more buffer interlayers disposed between the anolyte and the catholyte. The catholyte has a pH of less than 4, and the anolyte has a pH of greater than 10. The one or more buffer interlayers regulate a pH in the battery. The anode electroactive material comprises a Zn electroactive material. At least one of the one or more buffer interlayers comprises a weak acid and its conjugate base; and/or at least one of the one or more buffer interlayers comprises a weak base and its conjugate acid.

No. of Pages : 87 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029731 A

(19) INDIA

(22) Date of filing of Application :02/07/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:G06F0003041000, G02B0027010000, G09F0009300000, B60K0035000000, G09G0005000000	(71) Name of Applicant : 1)Samsung Display Co., Ltd. Address of Applicant :1, Samsung-Ro, Giheung-Gu, Yongin-si, Gyeonggi-Do, Korea Republic of Korea
(31) Priority Document No	:10-2020-0081463	(72) Name of Inventor :
(32) Priority Date	:02/07/2020	1)JINHYOUNG KIM
(33) Name of priority country	:Republic of Korea	2)JIN YONG SIM
(86) International Application No	:NA	3)MUNSIK HAM
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A display device (DD) including: a display module (DM); a first support part (SUP1) and a second support part (SUP2) which are disposed under the display module (DM) and spaced apart from each other in a first direction (DR1); a first gear (GR1) connected to each of both sides of the first support part (SUP1) which are opposite each other in a second direction (DR2) crossing the first direction (DR1); and a second gear (GR2) connected to each of both sides of the second support part (SUP2) which face each other in the second direction (DR2), where the second gear (GR2) is disposed adjacent to the first gear (GR1) in the first direction (DR1) and engaged with the first gear (GR1). When viewed in the second direction (DR2), each of the first gear (GR1) and the second gear (GR2) has a shape corresponding to at least a portion of an elliptical shape.

No. of Pages : 60 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029822 A

(19) INDIA

(22) Date of filing of Application :02/07/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : POWER SUPPLY SYSTEM

(51) International classification	:E03B0007070000, H04L0012100000, G06F0001260000, H02J0050800000, B60M0001340000	(71) Name of Applicant : 1)B&R INDUSTRIAL AUTOMATION GMBH Address of Applicant :B & R Straße 1 Eggelsberg AUSTRIA 5142 Austria
(31) Priority Document No	:A50569/2020	(72) Name of Inventor :
(32) Priority Date	:03/07/2020	1)Sebastian Blume
(33) Name of priority country	:Austria	2)Stefan Nestic
(86) International Application No	:NA	3)Djordje Vukovic
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In order to provide a more efficient power supply system (1), the power supply system (1) comprises a rectifier (8), a low voltage inverter (2), and a low voltage actuator (4), the rectifier (8) being designed to convert a mains AC voltage (u, v, w) into a low input DC voltage (U_e), the low voltage inverter (2) being connected to the rectifier (8) and designed to convert the low input DC voltage (U_e) into a low supply AC voltage (uv₁), and the low voltage inverter (2) being connected to the low voltage actuator (4) in order to supply the low voltage actuator (4) with power via the low supply AC voltage (uv₁). According to the invention, a DC-DC converter (3) is also provided which is connected to the rectifier (8) and designed to convert the low input DC voltage (U_e) into an extra-low DC voltage (U_z). An extra-low voltage inverter (5) is connected to the DC-DC converter (3) and is designed to convert the extra-low DC voltage (U_z) into an extra-low supply AC voltage (uv₂). The extra-low voltage inverter (5) is connected to an extra-low voltage actuator (6) in order to supply the extra-low voltage actuator (6) with power via the extra-low supply AC voltage (uv₂).

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114029866 A

(19) INDIA

(22) Date of filing of Application :02/07/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : IMAGING LENS ASSEMBLY

(51) International classification	:G02B0013000000, G02B0009600000, G02B0009100000, H04N0005225000, G02B0027000000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICS CO., LTD. Address of Applicant :NO.67-69 Fengle Road,Yuyao Ningbo,Zhejiang 315400 China China
(31) Priority Document No	:2020106312638	(72) Name of Inventor :
(32) Priority Date	:03/07/2020	1)YI ZHANG
(33) Name of priority country	:China	2)FUJIAN DAI
(86) International Application No	:NA	3)LIEFENG ZHAO
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides an imaging lens assembly, which sequentially includes, from an object side to an image side along an optical axis, a movable diaphragm, a first lens with a positive refractive power, a second lens with a negative refractive power, a third lens with a refractive power, a fourth lens with a refractive power, a fifth lens with a refractive power and a sixth lens with a negative refractive power, wherein TSmin is a distance from the movable diaphragm at a minimum distance from an imaging surface of the imaging lens assembly to an object-side surface of the first lens on the optical axis, TSmax is a distance from the movable diaphragm at a maximum distance from the imaging surface of the imaging lens assembly to the object-side surface of the first lens on the optical axis and EPDmin is a minimum entrance pupil diameter (EPD) of the imaging lens assembly, TSmin and TSmax and EPDmin meet $1=EPDmin/(|TSmin|+|TSmax|)=2.5$.

No. of Pages : 90 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114043718 A

(19) INDIA

(22) Date of filing of Application :27/09/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : HIGH IMPACT RESISTANT POLY(LACTIC ACID) BLENDS

(51) International classification	:C08L0077000000, C08L0067040000, A61B0017560000, A61M0005240000, A61K0039395000	(71) Name of Applicant : 1)Northern Technologies International Corporation Address of Applicant :4201 Woodland Road, Circle Pines, MN 55014, USA U.S.A.
(31) Priority Document No	:16/793,529	(72) Name of Inventor :
(32) Priority Date	:18/02/2020	1)GIRI, Preetam
(33) Name of priority country	:U.S.A.	2)MANJURE, Shilpa
(86) International Application No	:NA	3)BOTE, Sayli
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The notched Izod impact toughness and tensile elongation of poly(lactic acid) (PLA)- homopolymers are increased by about 2 to about 4 times by blending therewith a PLAcopolymer having a difunctional flexible middle segment such as a polysiloxane or a polyether from about 0.6 wt.% to about 20 wt.%. The PLA-homopolymer-PLA-copolymer blend having a difunctional flexible polymer from about 0.5 wt.% to about 10 wt.% is thermally annealed to provide impact toughness of at least about 5 kJ/m² and tensile elongation of greater than 12%. This exceptional improvement observed in the PLA blend is a synergistic effect of the addition of the difunctional flexible polymer of the copolymer and thermal annealing. The improvement observed in the mechanical properties with high PLA homopolymer content above about 90 to about 98 wt.% is unusual and results in an increased scope of molding and thermoforming applications. The annealed PLAcopolymers having a difunctional flexible middle segment have also been found to have improved notched Izod impact properties.

No. of Pages : 28 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117010470 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : STORAGE SHELF FOR STORING AT LEAST ONE STORAGE PRODUCT CARRIER AND METHOD FOR DETECTING A STORAGE STOCK OF A STORAGE SHELF

(51) International classification	:B65G0001137000, B65G0001040000, B62B0003100000, B23Q0007140000, H01L0021677000	(71) Name of Applicant : 1)HÄNEL & CO. Address of Applicant :Bafflesstrasse 21 9450 Altstätten SG Switzerland
(31) Priority Document No	:10 2019 118 046.5	(72) Name of Inventor :
(32) Priority Date	:04/07/2019	1)REMINDER, Manfred
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2020/068538	
Filing Date	:01/07/2020	
(87) International Publication No	:WO 2021/001432	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a storage shelf (10) comprising a plurality of supporting brackets (12), which are disposed on top of each other, for supporting storage product carriers (20) which can be conveyed by means of an automatic transport device (14), and at least one feed and removal opening (16) for feeding and removing the storage product carrier (20). For this purpose, an image-capturing unit (40) is arranged on an upper side (18) of the feed and removal opening (16). The image-capturing unit (40) is fastened to a displacement device (30) which is displaceable in a horizontal direction (X).

No. of Pages : 13 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117015572 A

(19) INDIA

(22) Date of filing of Application :01/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : COSMETIC GEL COMPRISING A TRIGLYCERIDE OIL

(51) International classification	:A61K0009127000, A61Q0019100000, A61K0008020000, A61K0008370000, C11D0003500000	(71) Name of Applicant : 1)CLARIANT INTERNATIONAL LTD Address of Applicant :Rothausstr. 61 4132 Muttenz Switzerland
(31) Priority Document No	:18196989.0	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)DAHMS, Gerd
(33) Name of priority country	:EPO	2)WAGDARE, Nagesh
(86) International Application No	:PCT/EP2019/075762	
Filing Date	:24/09/2019	
(87) International Publication No	:WO 2020/064771	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to the invention, a cosmetic gel is provided comprising multilamellar vesicles dispersed in an aqueous phase, wherein the multilamellar vesicles have the shape of a rotational body comprising two or more concentric lipid double layers, the cosmetic gel comprising: a) a surfactant component, comprising at least one vesicle-forming surfactant, which is a surfactant having a HLB value of greater than 6; b) an oily phase comprising a triglyceride oil; c) an aqueous phase comprising a water-soluble polyhydric alcohol; and wherein the multilamellar vesicles have a median particle size d(50) from 50 to 800 nanometres and wherein the particle size distribution is Gaussian and the standard deviation is less than 30% of the median particle size d(50).

No. of Pages : 32 No. of Claims : 24

(54) Title of the invention : METAL SALT OF ALICYCLIC DICARBOXYLIC ACID HAVING EXCELLENT DISPERSIBILITY IN POLYOLEFIN RESIN, PRODUCTION METHOD FOR SAID METAL SALT OF ALICYCLIC DICARBOXYLIC ACID, CRYSTAL NUCLEATOR FOR POLYOLEFIN RESIN CONTAINING SAID METAL SALT OF ALICYCLIC DICARBOXYLIC ACID, CRYSTAL NUCLEATOR COMPOSITION CONTAINING SAID CRYSTAL NUCLEATOR, POLYOLEFIN RESIN COMPOSITION, AND POLYOLEFIN RESIN MOLDED ARTICLE

(51) International classification	:C08K0005000000, C08K0005098000, C08K0005527000, C08K0005157500, C08L0023000000	(71)Name of Applicant : 1)NEW JAPAN CHEMICAL CO., LTD. Address of Applicant :13, Yoshijimayaguracho, Fushimi-ku, Kyoto-shi, Kyoto 6128224 Japan
(31) Priority Document No	:2018-169457	(72)Name of Inventor :
(32) Priority Date	:11/09/2018	1)IWASAKI, Shohei
(33) Name of priority country	:Japan	2)MATSUMOTO, Kazuya
(86) International Application No	:PCT/JP2019/034513	3)INOUE, Mitsuko
Filing Date	:03/09/2019	4)SHINODA, Yurie
(87) International Publication No	:WO 2020/054492	5)KITAGAWA, Sachio
(61) Patent of Addition to Application Number	:NA	6)UCHIYAMA, Yohei
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The purpose of the present invention is to provide: a metal salt of an alicyclic dicarboxylic acid that has excellent dispersibility in a polyolefin resin, and as a result, has an excellent crystallinity-improving effect, which is the inherent function of a crystal nucleator for a polyolefin resin, without depending on processing conditions; a production method for the metal salt of an alicyclic dicarboxylic acid; and a crystal nucleator containing the metal salt of an alicyclic dicarboxylic acid; and further, a crystal nucleator composition that is for a polyolefin resin and that contains the crystal nucleator and a metal salt of a fatty acid; and a polyolefin resin composition containing the crystal nucleator; and a polyolefin resin molded article made from the polyolefin resin composition as a raw material. The present invention pertains to a metal salt of an alicyclic dicarboxylic acid wherein the alicyclic dicarboxylic acid is a cyclohexane-1,2-dicarboxylic acid having an alkyl substituent, and the metal salt is a calcium salt, a hydroxy aluminum salt, a disodium salt, or a dilithium salt.

No. of Pages : 68 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016566 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SURGICAL INSTRUMENT TRAY

(51) International classification	:A61B0050330000, A61B0050300000, A61B0050000000, A61B0090000000, A61L0002260000	(71) Name of Applicant : 1)DEPUY IRELAND UNLIMITED COMPANY Address of Applicant :Loughbeg Industrial Estate Ringaskiddy County Cork Ireland
(31) Priority Document No	:1817051.4	(72) Name of Inventor :
(32) Priority Date	:19/10/2018	1)BIRKBECK, Alec
(33) Name of priority country	:U.K.	2)BUSHELL, Sarah
(86) International Application No	:PCT/EP2019/076981	3)YOUNG, Duncan
Filing Date	:04/10/2019	
(87) International Publication No	:WO 2020/078746	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Surgical instrument trays and related methods are described. The surgical instrument tray is for a surgical instrument having a plurality of parts from which the surgical instrument is assembled. The surgical tray comprises a tray having a plurality of side walls and a base which define an interior space; a lid for closing the interior space and which is removable from the tray; and a plurality of outlines located within the interior space. Each outline has the shape of a corresponding different part of the surgical instrument and each outline has at least one support arranged to receive and releasably hold the respective different parts of the surgical instrument above and in registration with the outline. The plurality of outlines are configured to indicate that the different parts of the surgical instrument are assembled to form the surgical instrument and/or that the surgical instrument is disassembled into the different parts.

No. of Pages : 32 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016646 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : USER EQUIPMENT AND RADIO COMMUNICATION METHOD

(51) International classification	:H04W0072040000, H04W0072120000, H04W0024100000, H04L0012260000, H04W0028040000	(71) Name of Applicant : 1)NTT DOCOMO, INC. Address of Applicant :11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 1006150 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)TAKEDA, Kazuki
(33) Name of priority country	:NA	2)NAGATA, Satoshi
(86) International Application No	:PCT/JP2018/035220	3)WANG, Lihui
Filing Date	:21/09/2018	4)HOU, Xiaolin
(87) International Publication No	:WO 2020/059147	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In order to appropriately control reception of downlink control information, user equipment according to one aspect of the present invention is characterized by having: a reception unit that receives one or more items of downlink control information for different uses in a prescribed cell; and a control unit that performs storage such that among the received downlink control information, downlink control information for a prescribed use does not surpass a prescribed number of items.

No. of Pages : 64 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016647 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : USER TERMINAL AND WIRELESS COMMUNICATION METHOD

(51) International classification	:H04W0072040000, H04L0005000000, H04W0052020000, H04W0048120000, H04W0076270000	(71) Name of Applicant : 1)NTT DOCOMO, INC. Address of Applicant :11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 1006150 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HARADA, Hiroki
(33) Name of priority country	:NA	2)TAKEDA, Kazuki
(86) International Application No	:PCT/JP2018/035231	3)MATSUMURA, Yuki
Filing Date	:21/09/2018	
(87) International Publication No	:WO 2020/059153	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A user terminal having: a reception unit for monitoring, in a connected mode, a downlink control channel for system information or for paging; and a control unit for determining, on the basis of at least one of linking of a downlink reference signal to a downlink control channel monitoring occasion and setting information indicating a downlink reference signal that is pseudo-collocated to a control resource set that includes a downlink control channel, a downlink reference signal that is pseudo-collocated to the downlink control channel. According to one aspect of the present disclosure, monitoring of the downlink control channel can be appropriately performed.

No. of Pages : 43 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016654 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PLASMINOGEN ACTIVATOR INHIBITOR 1 (PAI-1) INHIBITORS AND USES THEREFOR

(51) International classification	:A61K0031495000, A61K0031635000, C07D0403120000, A61K0009000000, A61K0031196000	(71) Name of Applicant : 1)EIRION THERAPEUTICS, INC. Address of Applicant :25-K Olympia Ave., Suite 200 Woburn, Massachusetts 01801 U.S.A.
(31) Priority Document No	:62/731074	(72) Name of Inventor :
(32) Priority Date	:13/09/2018	1)EDELSON, Jonathan
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/050849	
Filing Date	:12/09/2019	
(87) International Publication No	:WO 2020/056160	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosures provides new technologies for treatment and/or prevention of certain dermatological conditions, specifically including graying hair. Among other things, the present disclosure provides an insight that plasminogen activator inhibitor -1 (PAI-1) inhibitors may be useful in the treatment and/or prevention of certain dermatological conditions, and in particular in treatment and/or prevention of graying hair.

No. of Pages : 102 No. of Claims : 112

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016655 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : USES OF PLASMINOGEN ACTIVATOR INHIBITOR 1 (PAI-1) INHIBITORS

(51) International classification :A61Q0007000000,
C07K0014810000,
C07D0403120000,
A61K0031635000,
A61K0031454500

(31) Priority Document No :62/731076
(32) Priority Date :13/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/050890
Filing Date :12/09/2019
(87) International Publication No :WO 2020/056191
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)EIRION THERAPEUTICS, INC.
Address of Applicant :25-K Olympia Ave., Suite 200 Woburn,
Massachusetts 01801 U.S.A.
(72)**Name of Inventor :**
1)EDELSON, Jonathan

(57) Abstract :

The present disclosures provides surprising insight into new technologies for treatment and/or prevention of certain types of hair loss (also known as alopecia), including androgenetic alopecia, alopecia areata, frontal fibrosing alopecia, and senescent alopecia. Among other things, the present disclosure provides surprising insight that plasminogen activator inhibitor -1 (PAI-1) inhibitors may be surprisingly effective and/or useful in the treatment and/or prevention of certain types of hair loss, including androgenetic alopecia, alopecia areata, frontal fibrosing alopecia, and senescent alopecia. Furthermore, the present disclosure provides insight that provided new technologies may not be particularly effective and/or useful in the treatment and/or prevention of other types of alopecia such as radiation-induced alopecia, chemotherapy-induced alopecia, and alopecia due to chronic discoid lupus erythematosus.

No. of Pages : 84 No. of Claims : 92

(54) Title of the invention : VENTILATING HOUSING

(51) International classification :G01L0019140000,
F21V0031030000,
F21S0045330000,
H04R0001100000,
H02K0005150000

(31) Priority Document No :2018-192899
(32) Priority Date :11/10/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/040282
Filing Date :11/10/2019
(87) International Publication No :WO 2020/075848
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

1)KITAGAWA, Daisuke**2)YANO, Youzou****3)NISHIYAMA, Satoshi****4)OGAWA, Tiago****5)TAKEUCHI, Masahiko**

(57) Abstract :

A ventilating housing provided with a housing and a ventilating component, the housing including a tubular projecting portion which protrudes from the housing and has a communicating hole formed therein providing communication between an internal space of the housing and an external space. The ventilating component is provided with: a mounting member which is mounted by being press-fitted on the projecting portion with an inner surface of the mounting member contacting an outer surface of the projecting portion; a ventilating body which is supported on the mounting member so as to cover the end of the communicating hole and which provides ventilation between the internal space and the external space; and a cover member which includes a peripheral portion and a top portion and is press-fitted on the mounting member. The ventilating housing is characterized in that: a ventilating path connecting the ventilating body and the external space is provided in at least one of the inside of the mounting member, the inside of the cover member, and a gap between an outer surface of the mounting member and the peripheral portion of the cover member; and a first contact portion, which is a part at which an outer-most protruding part of the outer surface of the mounting member and an inner surface of the peripheral portion of the cover member contact each other, is located on the internal space side of an external space-side end portion of a second contact portion, which is a part at which the outer surface of the projecting portion of the housing and the inner surface of the mounting member contact each other.

No. of Pages : 59 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016690 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : 2' FANA MODIFIED FOXP3 ANTISENSE OLIGONUCLEOTIDES AND METHODS OF USE THEREOF

(51) International classification :C12N0015113000,
A61K0009107000,
C12N0015820000,
A61P0035000000,
H01L0023130000

(31) Priority Document No :62/737061
(32) Priority Date :26/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053033
Filing Date :25/09/2019
(87) International Publication No :WO 2020/069044
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :3675 Market Street Suite 200
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2)THE CHILDREN'S HOSPITAL OF PHILADELPHIA

(72)Name of Inventor :
1)AISHWARYA, Veenu
2)HANCOCK, Wayne, W.

(57) Abstract :

The present invention is directed to hybrid chimera antisense oligonucleotides including deoxyribonucleotide and 2'-deoxy-2'-fluoro- β -D-arabinonucleotide which binds to a Foxp3 mRNA, and to methods of use thereof. The methods include the use for reducing expression level of Foxp3 gene, increasing anti-tumor activity, and treating cancer in a subject.

No. of Pages : 53 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016693 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PARTICULATE FLAVOURING COMPOSITION COMPRISING PLATED LACTATE PARTICLES

(51) International classification :A23L002700000,
A23L002720000,
A23L002760000,
A23L0029231000,
C12P0007560000

(31) Priority Document No :18203916.4
(32) Priority Date :01/11/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/078842
Filing Date :23/10/2019
(87) International Publication No :WO 2020/089006
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)KUSUMAWARDANI, Heny

2)MARMOLEJO, Cynthia Berenice

3)PRITAWARDANI, Prita

4)VAN LANKVELD, Adrianus Johannes Maria

(57) Abstract :

The present invention provides a particulate flavouring composition comprising at least 60 wt.% of plated lactate particles, the plated lactate particle comprising (i) a lactate particle containing calcium lactate and optionally edible acid; and (ii) a liquid flavouring that is absorbed onto the lactate particle; the plated lactate particle containing: • 25-99.5 wt.% calcium lactate; • 0-70 wt.% edible acid; and • 0.5-40 wt.% of the liquid flavouring; and wherein the combination of calcium lactate, edible acid and the liquid flavouring constitutes at least 90 wt.%, preferably at least 95 wt.% of the plated lactate particle. This flavour plated lactate powder is easy to produce, exhibits excellent physical stability and is capable of imparting intense flavour notes to foods and beverages.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016696 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : OPTICAL SYSTEMS INCLUDING LIGHT-GUIDE OPTICAL ELEMENTS WITH TWO-DIMENSIONAL EXPANSION

(51) International classification :G02B0027010000,
G02B0027000000,
G02B0027140000,
G02B0027280000,
G02B0019000000

(31) Priority Document No :62/728803
(32) Priority Date :09/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2019/057572
Filing Date :09/09/2019
(87) International Publication No :WO 2020/049542
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)LUMUS LTD.

Address of Applicant :8 Pinchas Sapir street 7403631 Ness
Ziona Israel

(72)Name of Inventor :

1)EISENFELD, Tsion

2)CHRIKI, Ronen

(57) Abstract :

An optical system including a light- guide optical element (LOE) with a first set of mutually-parallel, partially-reflecting surfaces and a second set of mutually-parallel, partially-reflecting surfaces at a different orientation from the first set. Both sets of partially-reflecting surfaces are located between a set of mutually-parallel major external surfaces. Image illumination introduced at a coupling-in location propagates along the LOE, is redirected by the first set of partially-reflecting surfaces towards the second set of partially-reflecting surfaces, where it is coupled out towards the eye of the user. The first set of partially-reflecting surfaces are implemented as partial surfaces located where needed for filling an eye-motion box with the required image. Additionally, or alternatively, spacing of the first set of partially-reflecting surfaces is varied across a first region of the LOE. Additional features relate to relative orientations of the projector and partially reflecting surfaces to improve compactness and achieve various adjustments.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016699 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : APPARATUS AND METHOD OF PERFORMING A GROUP COMMUNICATION

(51) International classification	:H04W0004080000, H04W0008180000, H04W0088020000, H04L0029080000, H04M0007000000	(71) Name of Applicant : 1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. Address of Applicant :NO.18 Haibin Road, Wusha, Chang'an Dongguan, Guangdong 523860 China
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)LIU, Jianhua
(33) Name of priority country	:NA	
(86) International Application No	:PCT/CN2018/109539	
Filing Date	:09/10/2018	
(87) International Publication No	:WO 2020/073207	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus and a method of performing a group communication are provided. The method performing the group communication of a user equipment (UE) includes transmitting, to at least one group member in a group communication system, at least one data, and initiating, to a session management function (SMF) node in the group communication system, a group specific packet data network (PDU) session establishment request in the group communication system.

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016704 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF OZANIMOD AND ITS INTERMEDIATE (S)-1-AMINO-2,3-DIHYDRO-1H-INDENE-4-CARBONITRILE

(51) International classification	:C07D0271060000, A61K0031424500, A61P0035020000, C07D0303360000, C07K0014000000	(71) Name of Applicant : 1)PHARMAZELL GMBH Address of Applicant :Rosenheimer Str. 43 83064 Raubling Germany
(31) Priority Document No	:201841034453	(72) Name of Inventor :
(32) Priority Date	:12/09/2018	1)DONSBACH, Kai
(33) Name of priority country	:India	2)PARIHAR, Jayprakash Ajitsingh
(86) International Application No	:PCT/EP2019/074348	3)PRATHA, Sridhar
Filing Date	:12/09/2019	4)SATYAVARAPU, Chinnayya Setty
(87) International Publication No	:WO 2020/053334	5)NALLURI, Leela Kumar
(61) Patent of Addition to Application Number	:NA	6)MATTURTI, Prasad
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an improved process for preparation of Ozanimod (I) or pharmaceutically acceptable salts thereof. The present invention also relates to an improved process for preparation of (S)-1-amino-2,3-dihydro- 1H-indene-4-carbonitrile (II) or its optically active acid salts.

No. of Pages : 22 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016718 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ACTIVATION OF GROUND GRANULATED BLAST FURNACE SLAG

(51) International classification	:C01D0015080000, C04B0028020000, C04B0040000000, C04B0028080000, A61K0033300000	(71) Name of Applicant : 1)SIKA TECHNOLOGY AG Address of Applicant :Zugerstrasse 50 6340 Baar Switzerland
(31) Priority Document No	:18198197.8	(72) Name of Inventor :
(32) Priority Date	:02/10/2018	1)DUPOUY, Lissa
(33) Name of priority country	:EPO	2)LIARD, Maxime
(86) International Application No	:PCT/EP2019/076513	3)HAUGUEL, Lolita
Filing Date	:01/10/2019	4)LOOTENS, Didier
(87) International Publication No	:WO 2020/070093	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an improved mineral binder composition comprising: - a mineral binder comprising at least 30 weight-% slag, based on the weight of the mineral binder, - an activator for the hydration of the slag consisting of or comprising calcium hydroxide and - a co-activator consisting of or comprising at least one salt selected from the group consisting of lithium carbonate, lithium sulfate and sodium carbonate. The improved mineral binder composition shows reduced setting time and increased early strength.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016731 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INWARD/OUTWARD VEHICLE MONITORING FOR REMOTE REPORTING AND IN-CAB WARNING ENHANCEMENTS

(51) International classification	:G06K0009000000, B60Q0009000000, B60R0001000000, G08G0001160000, B60W0040090000	(71) Name of Applicant : 1)NETRADYNE, INC. Address of Applicant :9191 Towne Centre Dr. Suite 200 San Diego, California 92122 U.S.A.
(31) Priority Document No	:62/729994	(72) Name of Inventor :
(32) Priority Date	:11/09/2018	1)JULIAN, David Jonathan
(33) Name of priority country	:U.S.A.	2)ANNAPUREDDY, Venkata Sreekanta Reddy
(86) International Application No	:PCT/US2019/050600	3)PANDYA, Sandeep
Filing Date	:11/09/2019	4)YEDLA, Arvind
(87) International Publication No	:WO 2020/055992	5)WILLIS, Dale Alan
(61) Patent of Addition to Application Number	:NA	6)VENKATACHALAM JAYARAMAN, Venkata Ramanan
Filing Date	:NA	7)YANAMALA, Suresh Babu
(62) Divisional to Application Number	:NA	8)AGRAWAL, Avneesh
Filing Date	:NA	9)TARANALLI, Veeresh
		10)KIM, Jaeyoon

(57) Abstract :

Systems and methods are provided for intelligent driving monitoring systems, advanced driver assistance systems and autonomous driving systems, and providing alerts to the driver of a vehicle, based on anomalies detected between driver behavior and environment captured by the outward facing camera. Various aspects of the driver, which may include his direction of sight, point of focus, posture, gaze, is determined by image processing of the upper visible body of the driver, by a driver facing camera in the vehicle. Other aspects of environment around the vehicle captured by the multitude of cameras in the vehicle are used to correlate driver behavior and actions with what is happening outside to detect and warn on anomalies, prevent accidents, provide feedback to the driver, and in general provide a safer driver experience.

No. of Pages : 46 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016732 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PATH, PATH INFORMATION PROCESSING METHOD AND DEVICE, STORAGE MEDIUM AND ELECTRONIC DEVICE

(51) International classification	:H04W0008140000, H04W0036000000, H04W0076250000, G06F0001329000, G06F0009540000	(71) Name of Applicant : 1)ZTE CORPORATION Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(31) Priority Document No	:201811163347.2	(72) Name of Inventor :
(32) Priority Date	:30/09/2018	1)LIANG, Shuang
(33) Name of priority country	:China	2)ZHU, Jinguo
(86) International Application No	:PCT/CN2019/109299	3)LI, Zhijun
Filing Date	:30/09/2019	
(87) International Publication No	:WO 2020/063998	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a path, a path information processing method and device, a storage medium and an electronic device. A path processing method comprising: an intermediate-session management function (I-SMF) receiving a first message of an anchor-session management function (A-SMF), wherein the first message comprises context information; the I-SMF determining, according to the context information, a method corresponding to a data path established by the I-SMF and selecting the data path.

No. of Pages : 23 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016733 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PROCESS AND INTERMEDIATES FOR THE PREPARATION OF FLUENSULFONE

(51) International classification :C07D0409120000,
A01N0043560000,
C07D0401120000,
A01N0043360000,
C07D0403120000
(31) Priority Document No :62/736498
(32) Priority Date :26/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IL2019/051063
Filing Date :26/09/2019
(87) International Publication No :WO 2020/065652
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)ADAMA MAKHTESHIM LTD.
Address of Applicant :P.O. Box 60 8410001 Beer-Sheva Israel
(72)Name of Inventor :
1)ZELL, Thomas
2)COHEN, Shlomi

(57) Abstract :

The invention provides a process for preparing heterocyclic fluoroalkenyl sulfones and their thioether and sulfoxide precursors of the formula: C1-R-S(O)n-(CH2)2-CF=CF2 (Formula I') wherein R is a heterocyclic five-membered aromatic ring and n is 0, 1 or 2, comprising a step of dehalogenation of a compound of the formula : C1-R-S (O)n-(CH2)2-CFX1-CF2X2 (Intermediate B), wherein X1 and X2 are independently halogen atoms, to remove said X1 and X2 atoms. Also included are novel intermediate compounds.

No. of Pages : 40 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016734 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR PRODUCTION OF AVIATION FUEL

(51) International classification :C10G0003000000,
C07C0001200000,
C10L0001040000,
C10G0065080000,
C10G0065140000
(31) Priority Document No :PA 2018 00767
(32) Priority Date :24/10/2018
(33) Name of priority country :Denmark
(86) International Application No :PCT/EP2019/078896
Filing Date :23/10/2019
(87) International Publication No :WO 2020/083994
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HALDOR TOPSØE A/S

Address of Applicant :Haldor Topsøes Allé 1 2800 Kgs.
Lyngby Denmark

(72)Name of Inventor :

1)ANDERSSON, Asbjørn Sune

2)ALKILDE, Ole Frej

3)DUONG, Thi Hong Diep

(57) Abstract :

The present disclosure relates to a process plant and a process for production of a hydrocarbon suitable for use as jet fuel from a feedstock being a renewable feedstock or an oxygenate feedstock, comprising the steps of combining the renewable feedstock with an amount of a hydrocracked intermediate product, directing it to contact a material catalytically active in hydrodeoxygenation under hydrodeoxygenation conditions to provide a hydrodeoxygenated intermediate product, fractionating said hydrodeoxygenated intermediate product in at least two fractions including a first fraction of which at least 90% boils below a defined boiling point and a second fraction of which at least 90% boils above said defined boiling point, directing at least an amount of said second fraction to contact a material catalytically active in hydrocracking under hydrocracking conditions to provide the hydrocracked intermediate product, with the associated benefit of such a process being well suited for efficiently converting the upper-boiling point of an oxygenate feedstock such as a renewable feedstocks to a lower boiling product, such as non-fossil kerosene.

No. of Pages : 20 No. of Claims : 14

(54) Title of the invention : SADDLED ELECTRIC VEHICLE

(51) International classification	:B62D0021150000, B60K0001000000, B60K0001040000, B62K0011040000, B60L0050600000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-181660	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)MATSUSHIMA Satoshi
(33) Name of priority country	:Japan	2)NAGASHIMA Yusuke
(86) International Application No	:PCT/JP2019/028587	
Filing Date	:22/07/2019	
(87) International Publication No	:WO 2020/066239	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This two-wheeled powered vehicle is provided with: a vehicle drive motor (40); a battery unit (50) which is the power source of the motor (40), is disposed in front of and above the motor (40), and is affixed to the motor (40); and a vehicle body frame for supporting the motor (40) and the battery unit (50). The battery unit (50) has provided at the front surface (50a) thereof facing forward of the vehicle a front surface upper fastening section (66) fastened to the vehicle body frame. The front surface upper fastening section (66) is provided above and in front of the motor (40) and overlaps the vehicle width center when viewed in the vehicle front-rear direction.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016736 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : VEHICLE ONBOARD CAMERA

(51) International classification	:H04N0005225000, H04M0001020000, B60R0011040000, B60R0001000000, H01R0013502000	(71) Name of Applicant : 1)SONY SEMICONDUCTOR SOLUTIONS CORPORATION Address of Applicant :4-14-1 Asahi-cho, Atsugi-shi, Kanagawa 2430014 Japan
(31) Priority Document No	:2018-214503	(72) Name of Inventor :
(32) Priority Date	:15/11/2018	1)TOKITO, Toshihiro
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/043876	
Filing Date	:08/11/2019	
(87) International Publication No	:WO 2020/100740	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] To provide a vehicle onboard camera wherein a force that is applied to a flexible substrate connecting a main substrate and an imaging element substrate can be satisfactorily absorbed. [Solution] This vehicle onboard camera comprises an imaging element substrate, a main substrate, and a flexible substrate. The imaging element substrate has a first terminal. The main substrate has a second terminal. The flexible substrate has a first connecting section that is connected to the first terminal, a second connecting section that is connected to the second terminal, and first and second curved sections that are located between the first connecting section and the second connecting section and, when in an expanded condition, curve along intersecting first and second curvature axes. With this vehicle onboard camera, it is possible to absorb a force of an arbitrary direction that is applied to the flexible substrate.

No. of Pages : 71 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016737 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR TREATING A MICROPOROUS MEMBRANE

(51) International classification	:C02F0001440000, B01D0061140000, B01D0071020000, B01D0071820000, B01D0071260000	(71) Name of Applicant : 1)PPG INDUSTRIES OHIO, INC. Address of Applicant :3800 West 143rd Street Cleveland, Ohio 44111 U.S.A.
(31) Priority Document No	:16/131775	(72) Name of Inventor :
(32) Priority Date	:14/09/2018	1)GUO, Qunhui
(33) Name of priority country	:U.S.A.	2)BOWLES, Steven, E.
(86) International Application No	:PCT/US2019/050411	3)KUTCHKO, Cynthia
Filing Date	:10/09/2019	4)MCHENRY, Deena, M.
(87) International Publication No	:WO 2020/055867	5)OLSON, Kurt, G.
(61) Patent of Addition to Application Number	:NA	6)PETERS, James, C.
Filing Date	:NA	7)WALTERS, David, N.
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for treating a surface of a microporous membrane includes: (1) contacting at least one surface of the membrane with a treatment composition including: (a) an acrylic polymer prepared from a mixture of vinyl monomers including: (i) a (meth)acrylic acid monomer and (ii) a silane-functional acrylic monomer; and (b) a base, where the acrylic polymer is in contact with the filler present in the matrix; and (2) subjecting the membrane of (1) to conditions sufficient to effect a condensation reaction between the filler and the acrylic polymer. A treated microporous membrane and an aqueous treatment composition are also disclosed.

No. of Pages : 41 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016750 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MONOACYLGLYCEROL LIPASE MODULATORS

(51) International classification	:C07D0413040000, C07D0403040000, A61P0025180000, C07D0417040000, C07D0211220000	(71) Name of Applicant : 1)JANSSEN PHARMACEUTICA NV Address of Applicant :Turnhoutseweg 30 2340 Beerse Belgium
(31) Priority Document No	:62/738600	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)CHEN, Gang
(33) Name of priority country	:U.S.A.	2)HUANG, Chaofeng
(86) International Application No	:PCT/IB2019/058240	3)LAFORTEZA, Brian Ngo
Filing Date	:27/09/2019	4)RAVULA, Suchitra
(87) International Publication No	:WO 2020/065613	5)SOUTHGATE, Emma Helen
(61) Patent of Addition to Application Number	:NA	6)ZHANG, Wei
Filing Date	:NA	7)AMERIKS, Michael K.
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Fused compounds of Formula (I) and Formula (II), pharmaceutical compositions containing them, methods of making them, and methods of using them including methods for treating disease states, disorders, and conditions associated with MGL modulation, such as those associated with pain, psychiatric disorders, neurological disorders (including, but not limited to major depressive disorder, treatment resistant depression, anxious depression, bipolar disorder), cancers and eye conditions. and; Wherein R1, R2, R2a, R3, R3a, R4, and R4a are defined herein.

No. of Pages : 599 No. of Claims : 91

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016756 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : WATER TREATMENT DEVICE, WATER TREATMENT METHOD, FORWARD OSMOSIS MEMBRANE TREATMENT METHOD, FORWARD OSMOSIS MEMBRANE TREATMENT SYSTEM, AND WATER TREATMENT SYSTEM

(51) International classification	:C02F0001440000, B01D0061000000, C02F0009000000, B01D0061580000, B01D0061040000	(71) Name of Applicant : 1)ORGANO CORPORATION Address of Applicant :1-2-8, Shinsuna, Koto-ku, Tokyo 1368631 Japan
(31) Priority Document No	:2018-190215	(72) Name of Inventor :
(32) Priority Date	:05/10/2018	1)NAKAMURA Yuki
(33) Name of priority country	:Japan	2)NAKANO Toru
(86) International Application No	:PCT/JP2019/037279	3)TAKIGUCHI Keisuke
Filing Date	:24/09/2019	
(87) International Publication No	:WO 2020/071177	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a water treatment device and a water treatment method, whereby it is possible to treat water of interest which contains at least one of soluble silica and a hard component at low cost. A water treatment device 1 for treating water of interest which contains at least one of soluble silica and a hard component, the water treatment device 1 being provided with a pretreatment device 10 which is equipped with one of a soluble silica removal means and a hard component removal means, a reverse osmosis membrane treatment device 12 which serves as a condensation treatment means for performing the condensation treatment of pretreated water obtained in the pretreatment device 10, and a forward osmosis membrane treatment device 14 for performing the forward osmosis membrane treatment of condensed water obtained in the reverse osmosis membrane treatment device 12, wherein a dilution draw solution that is used in the forward osmosis membrane treatment device 14 is also used in the pretreatment device 10.

No. of Pages : 86 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016771 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ELECTRONIC DEVICE FOR CONTROLLING DISPLAY POSITION OR AREA OF IMAGE ON BASIS OF CHANGE OF CONTENT OF IMAGE

(51) International classification :G06F0003048400,
H04M0001020000,
G09G0003360000,
G09G0005000000,
G06F0003048100

(31) Priority Document No :10-2018-0133117

(32) Priority Date :01/11/2018

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2019/014671
Filing Date :01/11/2019

(87) International Publication No :WO 2020/091491

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAMSUNG ELECTRONICS CO., LTD.

Address of Applicant :129, Samsung-ro, Yeongtong-gu
Suwon-si Gyeonggi-do 16677 Republic of Korea

(72)Name of Inventor :

1)BAE, Jongkon

2)KIM, Hanyuool

3)KIM, Donghwy

4)KIM, Hojin

5)PARK, Hyunjun

6)LEE, Yohan

7)LEE, Hongkook

8)HAN, Dongkyoon

9)HONG, Yunpyo

(57) Abstract :

Disclosed is an electronic device comprising: a display; a display driving circuit for driving the display; and at least one processor operationally connected to the display and the display driving circuit. The display driving circuit moves, on a display area of the display, a display position of at least one pixel data corresponding to an image related to at least one application, from a designated point by a designated distance. The at least one processor is configured to: extend a first part of the image by a designated range on the basis of the designated distance; contract a second part of the image by the designated range on the basis of the designated distance; and display the image on the display area on the basis of the extended first part or the contracted second part. Various other embodiments understood through the specification are possible.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016772 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : EXOSOME-TARGETING BISPECIFIC ANTIBODIES

(51) International classification	:C07K0016280000, C07K0014705000, C07K0016460000, A61K0039000000, G07F0017320000	(71) Name of Applicant : 1)IMMUNOME, INC. Address of Applicant :665 Stockton Drive, Suite 300 Exton, PA 19341 U.S.A.
(31) Priority Document No	:62/746862	(72) Name of Inventor :
(32) Priority Date	:17/10/2018	1)ROBINSON, Matthew K.
(33) Name of priority country	:U.S.A.	2)MORIN, Michael John
(86) International Application No	:PCT/US2019/056698	
Filing Date	:17/10/2019	
(87) International Publication No	:WO 2020/081786	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The inventions described herein are directed to bispecific antibodies that are capable of selectively targeting exosomes by specifically binding a first exosome-associated protein and Programmed Death Ligand-1 (PD-L1) as a second exosome-associated protein. These bispecific antibodies can disrupt the suppression of anti-tumor activity by immune cells by targeting tumor-cell derived exosomes that inhibit T cell activation. Therefore, bispecific antibodies of the invention can be used in methods for treating cancers.

No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016777 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHODS, APPARATUS AND DEVICE-READABLE MEDIUMS RELATING TO WIRELESS ACCESS IN A NETWORK REQUIRING A CARRIER-SENSE MECHANISM

(51) International classification	:H04B0007060000, H04W0084120000, H04W0012060000, H04W0004800000, H04L0005000000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GULDOGAN, Mehmet Burak
(33) Name of priority country	:NA	2)LOPEZ, Miguel
(86) International Application No	:PCT/EP2018/079183	3)WILHELMSSON, Leif
Filing Date	:24/10/2018	4)SUNDMAN, Dennis
(87) International Publication No	:WO 2020/083484	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, apparatus and device-readable mediums are disclosed relating to wireless access in a network requiring a carrier-sense mechanism. One aspect provides a method performed by a transmitting device for transmitting to a receiving device in a 10 wireless communications network. The transmitting device comprises a plurality of antenna elements. The method comprises: performing a directional carrier-sense assessment for one or more sub-bands configured for transmissions between the transmitting device and the receiving device, the directional carrier-sense assessment utilizing beamforming to detect a respective level of wireless activity on each of the sub-15 bands in a particular direction for transmissions to the receiving device; selecting a respective transmit power for each sub-band based on the determined level of wireless activity; and transmitting to the receiving device in the particular direction, using the respective selected transmit power for each sub-band.

No. of Pages : 16 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016778 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHODS AND COMPOSITIONS FOR TREATING SKIN DISEASES

(51) International classification	:A61K0038170000, A61K0045060000, A61K0048000000, A61K0036530000, A61K0035644000	(71) Name of Applicant : 1)VANDERBILT UNIVERSITY Address of Applicant :305 Kirkland Hall, 2201 West End Avenue Nashville, Tennessee 37240 U.S.A.
(31) Priority Document No	:62/731394	(72) Name of Inventor :
(32) Priority Date	:14/09/2018	1)HAWIGER, Jack Jacek
(33) Name of priority country	:U.S.A.	2)LIU, Yan
(86) International Application No	:PCT/US2019/051005	3)VEACH, Ruth Ann
Filing Date	:13/09/2019	4)ZIENKIEWICZ, Jozef
(87) International Publication No	:WO 2020/056250	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are compositions and methods for treating skin diseases mediated by inflammation that is caused by microbial, autoimmune, allergic, metabolic, neoplastic, and physical factors and insults (wounds, burns, UV light and radiation). In one aspect, the compositions and methods disclosed herein can also be used to enhance clearance of microbes from infected skin and subcutaneous tissue, in a subject. Also disclosed herein are compositions and methods for reducing levels of stress-responsive transcription factors and metabolic transcription factors in a cell in a subject with inflammation-mediated skin diseases.

No. of Pages : 50 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016779 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PREDICTED VALUE DETERMINATION METHOD, ENCODER, DECODER, AND COMPUTER STORAGE MEDIUM

(51) International classification	:H04N0019176000, H04N0019182000, H04N0019593000, H04N0019105000, H04N0019590000	(71) Name of Applicant : 1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. Address of Applicant :No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong 523860 China
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HUO, Junyan
(33) Name of priority country	:NA	2)MA, Yanzhuo
(86) International Application No	:PCT/CN2019/107602	3)WAN, Shuai
Filing Date	:24/09/2019	4)YANG, Fuzheng
(87) International Publication No	:WO 2021/056216	5)ZHANG, Wei
(61) Patent of Addition to Application Number	:NA	6)WANG, Haixin
Filing Date	:NA	7)SUN, Yu
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a predicted value determination method, encoder, decoder, and computer storage medium; the method is applied to an encoder, and comprises: obtaining a reconstructed value of an adjacent pixel of a current block (S501); filtering the reconstructed value of the adjacent pixel to obtain a reference value set of the current block (S502), if the size of the current block is less than a preset threshold, then according to the value of the bit depth of the pixel brightness component in the current block, calculating a value of a first constant (S503); determining the difference between the value of the first constant in a predicted input value set and a first reference value in a reference value set (S504); according to the reference value set, determining a predicted input value, in the predicted input value set, other than the first predicted input value (S505); according to the predicted input value set, calculating a predicted value of the pixel at a specific position in the current block (S506); filtering the predicted value of the pixel at a specific location to obtain the predicted values of all pixels in the current block (S507).

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016790 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MODULAR SYSTEMS AND METHODS FOR PERFORMING ADDITIVE MANUFACTURING OF OBJECTS

(51) International classification	:B33Y0010000000, B33Y0030000000, B33Y0050020000, B33Y0040000000, B33Y0050000000	(71) Name of Applicant : 1)BRINTER OY Address of Applicant :Itäinen Pitkätatu 4 C 20520 Turku Finland
(31) Priority Document No	:16/182042	(72) Name of Inventor :
(32) Priority Date	:06/11/2018	1)KALPIO, Tomi
(33) Name of priority country	:U.S.A.	2)PIIRA, Marko
(86) International Application No	:PCT/FI2019/050740	
Filing Date	:16/10/2019	
(87) International Publication No	:WO 2020/094913	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a modular system (100) for performing additive manufacturing of an object. The system comprises at least two additive manufacturing devices (102,104), wherein each of the at least two additive manufacturing devices comprises a housing having two slots (206) on lateral sides to accommodate a manufacturing tray (208); a printer head (210, 212) and axis system; and a movement mechanism. Furthermore, the system comprises a control module (106) operatively coupled to each of the at least two additive manufacturing devices. The control module is configured to control the at least two additive manufacturing devices to arrange the manufacturing tray in a first of the at least two additive manufacturing devices; print a part of the object on the manufacturing tray arranged in the first additive manufacturing device; move the manufacturing tray having the partially manufactured object to a second of the at least two additive manufacturing devices; and print a remaining part of the object on the manufacturing tray to complete the additive manufacturing of the object.

No. of Pages : 26 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016792 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD AND SYSTEM FOR IN-VIVO, AND NON-INVASIVE MEASUREMENT OF METABOLITE LEVELS

(51) International classification :G01R0033380000,
G01R0033383000,
G01R0033460000,
G01N0024080000,
G01R0033440000

(31) Priority Document No :62/731576

(32) Priority Date :14/09/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/CA2019/051305
Filing Date :13/09/2019

(87) International Publication No :WO 2020/051716

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)10250929 CANADA INC.
Address of Applicant :250 University Avenue Suite 200
Toronto, Ontario M5H 3E5 Canada

(72)**Name of Inventor :**
1)O'BRIEN, David

(57) Abstract :

Embodiments of a compact portable nuclear magnetic resonance (NMR) device are described which generally include a housing that provides a magnetic shield; an axisymmetric permanent magnet assembly in the housing and having a bore, a plurality of magnetic elements that together provide a well confined axisymmetric magnetization for generating a near-homogenous magnetic dipole field B_0 directed along a longitudinal axis and providing a sample cavity for receiving a sample, and high magnetic permeability soft steel poles to improve field uniformity; a shimming assembly with coils disposed at the longitudinal axis for spatially correcting the near homogenous magnetic field B_0 ; and a spectrometer having a control unit for measuring a metabolite in the sample by applying magnetic stimulus pulses to the sample, measuring free induction delay signals generated by an ensemble of hydrogen protons within the sample; and suppressing a water signal by using a dephasing gradient with frequency selective suppression.

No. of Pages : 91 No. of Claims : 102

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016793 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MEDICAL TUBE POSITION CONFIRMATION SYSTEM

(51) International classification	:F21V0008000000, A61J0015000000, A61B0005145000, A61B0001000000, A61B0005000000	(71) Name of Applicant : 1)NEUROCEUTICALS INC. Address of Applicant :4F, AXIS HONGOU, 3-24-6, Hongou, Bunkyo-ku, Tokyo 1130033 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MIIKE, Shinya
(33) Name of priority country	:NA	2)SUZUKI, Yutaka
(86) International Application No	:PCT/JP2018/034860	
Filing Date	:20/09/2018	
(87) International Publication No	:WO 2020/059087	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A medical tube position confirmation system for confirming the position of a medical tube for transluminally supplying nutrition into a body, an end part of the medical tube being implanted in the stomach, the medical tube position confirmation system being characterized by being provided with: a light guide body configured so as to guide light incident from an incidence end part and emit the light from an emission end part, the light guide body being configured so as to be insertable into the medical tube so that the emission end part is disposed inside the stomach; a light source for emitting light including a wavelength transmitted through a living body, the light source being optically connected to the incidence end part of the light guide body so that light is incident on the light guide body; and a scattering part for scattering the light emitted by the light guide body, the scattering part being optically connected to the light guide body at the emission end part of the light guide body.

No. of Pages : 20 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016794 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : TREM2 STABILIZING ANTIBODIES

(51) International classification	:C07K0016280000, A61K0039000000, C07K0014705000, A61K0047500000, A61P0021000000	(71) Name of Applicant : 1)NOVARTIS AG Address of Applicant :Lichtstrasse 35 4056 Basel Switzerland
(31) Priority Document No	:62/745798	(72) Name of Inventor :
(32) Priority Date	:15/10/2018	1)BRAND, Verena
(33) Name of priority country	:U.S.A.	2)FEUERBACH, Dominik
(86) International Application No	:PCT/IB2019/058769	3)GASPARINI, Fabrizio
Filing Date	:15/10/2019	4)GEORGE, Nathalie
(87) International Publication No	:WO 2020/079580	5)SCHAADT, Eveline
(61) Patent of Addition to Application Number	:NA	6)SHIMSHEK, Derya
Filing Date	:NA	7)SRINIVAS, Honnappa
(62) Divisional to Application Number	:NA	8)WALDHUBER, Markus
Filing Date	:NA	9)WILCKEN, Rainer

(57) Abstract :

The present invention provides antibodies that bind to and stabilize human Triggering Receptor Expressed on Myeloid cells 2 (TREM2) protein and methods of using these antibodies.

No. of Pages : 241 No. of Claims : 97

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016795 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DEUTERIUM-ENRICHED PIRFENIDONE AND METHODS OF USE THEREOF

(51) International classification	:A61K0045060000, A01N0037360000, A61K0031441200, C07D0491100000, A61P0003100000	(71) Name of Applicant : 1)PURETECH LYT 100, INC. Address of Applicant :6 Tide Street Boston, Massachusetts 02210 U.S.A.
(31) Priority Document No	:62/731570	(72) Name of Inventor :
(32) Priority Date	:14/09/2018	1)ELENKO, Eric
(33) Name of priority country	:U.S.A.	2)CHEN, Michael C.
(86) International Application No	:PCT/US2019/051369	3)SABOUNJIAN, LuAnn
Filing Date	:16/09/2019	
(87) International Publication No	:WO 2020/056430	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are deuterium-enriched N-Aryl pyridinone compounds, optionally in combination with one or more additional therapeutic agents, pharmaceutical compositions comprising the same, methods of preparation thereof, and methods of use thereof. Such compounds and compositions are useful, for example, in treating diseases, disorders, or conditions such as edema.

No. of Pages : 190 No. of Claims : 61

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016796 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INTRA PREDICTION-BASED IMAGE CODING METHOD USING MPM LIST, AND DEVICE THEREFOR

(51) International classification	:H04N0019110000, H04N0019176000, H04N0019105000, H04N0019593000, H04N0019159000
(31) Priority Document No	:62/742972
(32) Priority Date	:09/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/KR2019/013223
Filing Date	:08/10/2019
(87) International Publication No	:WO 2020/076064
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LG ELECTRONICS INC.

Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu
Seoul 07336 Republic of Korea

(72)Name of Inventor :

1)LI, Ling

2)HEO, Jin

3)KIM, Seunghwan

(57) Abstract :

An image decoding method, according to the present document, comprises the steps of: deriving a first intra prediction mode candidate on the basis of a first neighboring block positioned on the left side of a current block; deriving a second intra prediction mode candidate on the basis of a second neighboring block positioned on the top side of the current block; configuring a most probable mode (MPM) list for the current block on the basis of the first intra prediction mode candidate and the second intra prediction mode candidate; deriving an intra prediction mode for the current block on the basis of the MPM list; generating prediction samples by carrying out prediction on the current block on the basis of the intra prediction mode; and generating a restored picture of the current block on the basis of the prediction samples.

No. of Pages : 94 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016797 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ANTI-COLLISION AND MOTION CONTROL SYSTEMS AND METHODS

(51) International classification	:G01S0017931000, G01S0007481000, H04N0007180000, G08B0013196000, G01S0017420000	(71) Name of Applicant : 1)Microsoft Technology Licensing, LLC Address of Applicant :One Microsoft Way, Redmond, Washington 98052, United States of America U.S.A.
(31) Priority Document No	:62/734458	(72) Name of Inventor :
(32) Priority Date	:21/09/2018	1)PRATT, Andrew James
(33) Name of priority country	:U.S.A.	2)MORAR, Monil Dinesh
(86) International Application No	:PCT/US2019/051336	3)MOORE, Nolan Grant
Filing Date	:16/09/2019	4)FORESMAN, Mark Alan
(87) International Publication No	:WO 2020/060938	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods presented herein include an anti-collision and motion monitoring system includes one or more light detection and ranging (LiDAR) systems configured to detect locations of one or more objects in an environment. The anti-collision and motion monitoring system also includes one or more camera systems configured to capture images of the one or more objects in the environment that are detected by the one or more LiDAR systems. The anti-collision and motion monitoring system further includes processing circuitry configured to coordinate operation of the one or more LiDAR systems and the one or more camera systems, to receive inputs from the one or more LiDAR systems and the one or more camera systems relating to the one or more objects in the environment, to process the inputs received from the one or more LiDAR systems and the one or more camera systems to determine outputs relating to control of at least one of the one or more objects in the environment, and to communicate the outputs to a central coordinator to control one or more operating parameters of at least one of the one or more objects in the environment based at least in part on the inputs received from the one or more LiDAR systems and the one or more camera systems.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016800 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHODS AND COMPOSITIONS FOR TREATING CANCER USING MRNA THERAPEUTICS

(51) International classification	:C07K0014540000, A61P0035000000, A61K0038200000, A61K0047680000, A61K0039395000	(71) Name of Applicant : 1)MODERNATX, INC. Address of Applicant :200 Technology Square Cambridge, MA 02139 U.S.A.
(31) Priority Document No	:62/731335	(72) Name of Inventor :
(32) Priority Date	:14/09/2018	1)FREDERICK, Joshua
(33) Name of priority country	:U.S.A.	2)GURUMURTHY, Sushma
(86) International Application No	:PCT/US2019/051072	3)MISHRA, Ankita
Filing Date	:13/09/2019	4)BAI, Ailin
(87) International Publication No	:WO 2020/056304	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure features methods for treating cancer, including solid tumors and disseminated cancers such as myeloid malignancies, using one or more mRNAs encoding an OX40L polypeptide, an IL-12 polypeptide, an IL-15 polypeptide, and combinations thereof.

No. of Pages : 419 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016804 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : THIOCARBAMATE DERIVATIVES AS A2A INHIBITORS, PHARMACEUTICAL COMPOSITION THEREOF AND COMBINATIONS WITH ANTICANCER AGENTS

(51) International classification	:A61K0039000000, A61P0035000000, A61K0039395000, A61K0045060000, A61K0009000000	(71) Name of Applicant : 1)ITEOS BELGIUM SA Address of Applicant :Rue des Frères Wright, 29 6041 Gosselies Belgium
(31) Priority Document No	:62/729808	(72) Name of Inventor :
(32) Priority Date	:11/09/2018	1)CROSIGNANI, Stefano
(33) Name of priority country	:U.S.A.	2)DICKINSON, Paul
(86) International Application No	:PCT/EP2019/074208	3)DE MATAS, Marcel
Filing Date	:11/09/2019	4)HOUTHUYS, Erica Joke Katelijne Heleen
(87) International Publication No	:WO 2020/053263	5)MARILLIER, Reece Gerrad
(61) Patent of Addition to Application Number	:NA	6)MARTINOLI, Chiara
Filing Date	:NA	7)DE HENAU, Olivier
(62) Divisional to Application Number	:NA	8)DRIESENS, Gregory
Filing Date	:NA	

(57) Abstract :

The present invention relates to thiocarbamate derivatives of Formula (I) which are useful as A2A adenosine receptor (A2AR) inhibitors (I). Especially, the present invention relates to a pharmaceutical composition comprising an A2A inhibitor of Formula (I) and a lipid carrier such as lauroyl macrogol-32 glycerides, D-a-tocopherol-polyethylene glycol-1000 succinate or a mixture thereof. The pharmaceutical composition of the invention is particularly useful for oral dosing in the treatment of cancers. The present invention also relates to a combination comprising an A2A receptor inhibitor of Formula (I) and an anticancer agent. The anticancer agent is for example an immunotherapeutic agent, such as a checkpoint inhibitor. The invention further relates to a pharmaceutical composition and a kit of parts comprising such combination. Additionally, the combination of the invention is particularly useful for the treatment and/or prevention of cancers.

No. of Pages : 154 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016809 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SELF-USE OSCILLOMETRY DEVICE

(51) International classification	:A46B0011000000, A61B0005080000, G09B0023280000, A61N0001040000, A61H0009000000	(71) Name of Applicant : 1)THORASYS THORACIC MEDICAL SYSTEMS INC. Address of Applicant :6560 Ave. de l'Esplanade, Suite 103 Montreal, Québec H2V 4L5 Canada
(31) Priority Document No	:62/731424	(72) Name of Inventor :
(32) Priority Date	:14/09/2018	1)SCHUESSLER, Thomas Florian
(33) Name of priority country	:U.S.A.	2)CHOW SUN FAT, Kim Fur
(86) International Application No	:PCT/CA2019/051308	3)POSADA ESTEFAN, Lucas
Filing Date	:16/09/2019	4)DRAPEAU, Guy
(87) International Publication No	:WO 2020/051718	5)JUTRAS, Sebastien
(61) Patent of Addition to Application Number	:NA	6)CHICATUN, Florencia
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An oscillometry device comprises a casing. A user portion forms a conduit entering into the casing, the conduit adapted to receive a breath of a user and, an oscillometry measurement system operatively connected to the conduit in the casing and adapted to produce oscillometry measurement signals from the breath of the user. A user support interface projects from the casing in a common direction with the user portion, the user support interface vertically supporting the oscillometry device relative to a user when the user has his or her mouth on the user portion, the user support interface being made of a flexible deformable material.

No. of Pages : 14 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016810 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : VEHICLE CHASSIS

(51) International classification	:B62D0029000000, A63B0060000000, B29C0048300000, B29C0048210000, B65D0001160000
(31) Priority Document No	:1814778.5
(32) Priority Date	:11/09/2018
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2019/052515
Filing Date	:10/09/2019
(87) International Publication No	:WO 2020/053568
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)GORDON MURRAY DESIGN LIMITED

Address of Applicant :Wharfside Broadford Business Park
Shalford Surrey GU4 8EP U.K.

(72)Name of Inventor :

1)MURRAY, Ian Gordon

2)COPPUCK, Frank

3)SMITH, Andrew John

(57) Abstract :

We disclose a chassis for a vehicle, comprising an interconnected framework comprising a plurality of tubular sections, and at least one sheet bonded to the framework, wherein the tubular sections are of a non-ferrous metallic composition. The non-ferrous tubular sections have a very thin wall; generally, these sections are made by extrusion, which currently allows for wall thicknesses no thinner than about 2.5mm. We prefer the wall thickness to be about this level, and ideally no greater than 3mm. Such a thin-walled tube would usually imply a lower resistance to buckling, but as part of the structural element defined above, we have found that the tube does not buckle and in fact has an impact response that is superior to other alternatives. We therefore prefer that the tubular sections have a profile for which the ratio of the minimum area moment of inertia of its cross section to the square of the unsupported length of the section is less than 2mm². Another way of expressing this approach is to consider the aspect ratio of the tubular section, i.e. the ratio of its length to its wall thickness. Sections with a high aspect ratio will be more prone to buckling. Given the low elastic modulus of Aluminium, a low aspect ratio has been preferred, but according to the present invention a higher aspect ratio of more than about 100 or 150 is feasible.

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016814 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ANTIBACTERIAL COMPOUNDS

(51) International classification :C07D0487040000,
C07D0471040000,
A61P0031040000,
C07D0413140000,
A61K0009200000

(31) Priority Document No :62/734173
(32) Priority Date :20/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/052021
Filing Date :19/09/2019
(87) International Publication No :WO 2020/061375
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)TENG, Min
2)NAMMALWAR, Baskar
3)LI, Xiaoming
4)PEREZ, Christian
5)PUERTA, David T.
6)YULE, Ian
7)FAULKNER, Adele
8)ATTON, Holly
9)PARKES, Alastair
10)CONVERS-REIGNIER, Serge
11)SOUTHEY, Michelle

(57) Abstract :

Provided herein are heterocyclic derivative compounds and pharmaceutical compositions comprising said compounds that are useful for inhibiting the growth of gram -negative bacteria. Furthermore, the subject compounds and compositions are useful for the treatment of bacterial infection, such as urinary tract infection and the like.

No. of Pages : 130 No. of Claims : 65

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016815 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CONTENT ADAPTIVE QUANTIZATION STRENGTH AND BITRATE MODELING

(51) International classification	:H04N0019124000, H04N0019115000, H04N0019140000, H04N0019172000, H04N0019146000	(71) Name of Applicant : 1)ATI TECHNOLOGIES ULC Address of Applicant :One Commerce Valley Dr. East Markham, Ontario L3T 7X6 Canada
(31) Priority Document No	:16/177128	(72) Name of Inventor : 1)QIU, Jinbo
(32) Priority Date	:31/10/2018	2)LIU, Yang
(33) Name of priority country	:U.S.A.	3)AMER, Ihab
(86) International Application No	:PCT/IB2019/055358	4)ZHANG, Lei
Filing Date	:25/06/2019	5)HAROLD, Edward A.
(87) International Publication No	:WO 2020/089702	6)HAO, Zhiqi
(61) Patent of Addition to Application Number	:NA	7)WANG, Jiao
Filing Date	:NA	8)SINES, Gabor
(62) Divisional to Application Number	:NA	9)LIU, Haibo
Filing Date	:NA	10)IVANOVIC, Boris

(57) Abstract :

Systems, apparatuses, and methods for generating a model for determining a quantization strength to use when encoding video frames are disclosed. A pre-encoder performs multiple encoding passes using different quantization strengths on a portion or the entirety of one or more pre-processed video frames. The pre-encoder captures the bit-size of the encoded output for each of the multiple encoding passes. Then, based on the multiple encoding passes, the pre-encoder generates a model for mapping bit-size to quantization strength for encoding video frames or portion(s) thereof. When the encoder begins the final encoding pass for one or more given video frames or any portion(s) thereof, the encoder uses the model to map a preferred bit-size to a given quantization strength. The encoder uses the given quantization strength when encoding the given video frame(s) or frame portion(s) to meet a specified bit-rate for the encoded bitstream.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016817 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : TACTICAL (BALLISTIC) SHIELD CARRIER APPARATUS FASTENED ON THE STEEL VEST OR HUMAN BODY

(51) International classification :F41H0005080000,
F41H0001020000,
A41D0001040000,
A01G0022000000,
F41H0005040000

(31) Priority Document No :2018/14978

(32) Priority Date :10/10/2018

(33) Name of priority country :Turkey

(86) International Application No :PCT/TR2019/050027
Filing Date :10/01/2019

(87) International Publication No :WO 2020/076253

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GÜRBAG SAVUNMA VE TEKNOLOJİ SAN. TIC. A.S.
Address of Applicant :Nasuh Akar Mah. Türkocagi Cad.
No:42 Çankaya / Ankara Turkey

(72)Name of Inventor :
1)BAL, Fuat

(57) Abstract :

The invention relates to a tactical (ballistic) shield carrier apparatus which is fastened to a steel vest or human body which facilitates the carriage of the tactical (ballistic) shield used by security forces during a conflict in the open field.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016823 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : EFFICIENT QUANTIZATION PARAMETER PREDICTION METHOD FOR LOW LATENCY VIDEO CODING

(51) International classification	:H04N0019176000, H04N0019140000, H04N0019149000, H04N0019172000, H04N0019124000	(71) Name of Applicant : 1)ATI TECHNOLOGIES ULC Address of Applicant :One Commerce Valley Dr. East Markham, Ontario L3T 7X6 Canada
(31) Priority Document No	:16/177156	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)LEW, Dennis
(33) Name of priority country	:U.S.A.	2)WANG, Jiao
(86) International Application No	:PCT/IB2019/055357	3)ZHANG, Lei
Filing Date	:25/06/2019	4)HAROLD, Edward A.
(87) International Publication No	:WO 2020/089701	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems, apparatuses, and methods for calculating a quantization parameter (QP) for encoding video frames to meet a given bit budget are disclosed. Control logic coupled to an encoder calculates a complexity indicator that represents a level of difficulty in encoding a previous video frame. The complexity indicator is based at least in part on a first parameter associated with the previous video frame and corresponds to one or more of a variance, an intra-prediction factor, and an inter-to-intra ratio. The complexity indicator is then used by the control logic to calculate a preferred QP to use to encode the current video frame to meet a given bit budget. By using the preferred QP generated based on the complexity indicator, the encoder is able to make fewer QP adjustments during the frame. This helps to improve the visual quality of the resulting encoded video bitstream.

No. of Pages : 10 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016828 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : COMBINATION THERAPIES

(51) International classification :A61P0035000000,
A61K0045060000,
A61K0031519000,
A61K0031550000,
A61K0031517000

(31) Priority Document No :62/729189
(32) Priority Date :10/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/050227
Filing Date :09/09/2019
(87) International Publication No :WO 2020/055756
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :9393 Towne Center Dr. Suite 200 San Diego, CA 92121 U.S.A.

(72)**Name of Inventor :**
1)ENGSTROM, Lars, Daniel
2)ARANDA, Ruth, Wei
3)OLSON, Peter
4)CHRISTENSEN, James, Gail
5)HALLIN, Jill

(57) Abstract :

The present invention relates to combination therapies for treating KRas G12C cancers. In particular, the present invention relates to methods of treating cancer in a subject in need thereof, comprising administering to the subject a therapeutically effective amount of a combination of a pan ErbB family inhibitor and a KRAS G12C inhibitor of Formula (I), Formula (I-A) or Formula (I-B), pharmaceutical compositions comprising a therapeutically effective amounts of the inhibitors, kits comprising the compositions and methods of use therefor.

No. of Pages : 118 No. of Claims : 90

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016829 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PROCESS FOR CONTROLLING A FERMENTATION PROCESS

(51) International classification	:C12M0001000000, C12P0007060000, C12P0007080000, A23F0003140000, G01N0027020000	(71) Name of Applicant : 1)FERMENTATIONEXPERTS A/S Address of Applicant :Vorbassevej 12 6622 Bække Denmark
(31) Priority Document No	:PA 2018 00610	(72) Name of Inventor : 1)KJÆRULFF, Søren
(32) Priority Date	:19/09/2018	
(33) Name of priority country	:Denmark	
(86) International Application No	:PCT/EP2019/074992	
Filing Date	:18/09/2019	
(87) International Publication No	:WO 2020/058325	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for controlling the development of at least predetermined metabolites in a fermented product comprising at least one plant material and/or at least one seaweed material, wherein the process comprising the steps of: (i) Determining the at least 2 predetermined metabolites to be developed in the fermented product; (ii) Based on the predetermined metabolites determined in step (i) at least one plant material and/or the at least one seaweed material is selected; (iii) Based on the predetermined metabolites determined in step (i) at least one fermenting organism is selected; (iv) Mixing the at least one plant material and/or the at least one seaweed material selected in step (ii) with the at least one fermenting organism selected in step (iii) in a fermentation reactor providing a fermentation mixture; (v) Allowing the fermentation mixture to ferment under fermentation conditions favouring the development of the at least 2 predetermined metabolites; whereby the fermented product is provided.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016832 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : GLOBAL ANCESTRY DETERMINATION SYSTEM

(51) International classification	:G06N0007000000, G16B0040000000, G16B0010000000, G06N0020000000, G16H0050200000	(71) Name of Applicant : 1)ANCESTRY.COM DNA, LLC Address of Applicant :1300 W. Traverse Parkway Lehi, Utah 84043 U.S.A.
(31) Priority Document No	:62/729840	(72) Name of Inventor :
(32) Priority Date	:11/09/2018	1)SONG, Shiya
(33) Name of priority country	:U.S.A.	2)TURISSINI, David Andrew
(86) International Application No	:PCT/IB2019/057667	3)WANG, Yong
Filing Date	:11/09/2019	4)BYRNES, Jake Kelly
(87) International Publication No	:WO 2020/053789	5)NOTO, Keith
(61) Patent of Addition to Application Number	:NA	6)SEDGHIFAR, Alisa
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An input genotype is divided into a plurality of windows, each including a sequence of SNPs. For each window, a diploid HMM is computed based on genotypes and/or phased haplotypes to determine a probability of a haplotype sequence being associated with a particular label. For example, the diploid HMM for a window is used to determine the emission probability that the window corresponds to a set of labels. An inter-window HMM, with a set of states for each window, is computed. Labels are assigned to the input genotype based on the inter-window HMM. Upper and lower bounds are estimated to produce a range of likely percentage values an input can be assigned to a given label. Confidence values are determined indicating a likelihood that an individual inherits DNA from a certain population. Maps are generated with polygons representing regions where a measure of ethnicity of population falls within specific ranges.

No. of Pages : 51 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016834 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : COMBINATION THERAPY FOR TREATING BLOOD CANCER

(51) International classification	:A61K0045060000, A61P0035000000, A61P0035020000, C07K0016280000, G01N0015000000	(71) Name of Applicant : 1)SIGNALCHEM LIFESCIENCES CORPORATION Address of Applicant :110-13120 Vanier Place Richmond, British Columbia V6V 2J2 Canada
(31) Priority Document No	:62/732816	(72) Name of Inventor :
(32) Priority Date	:18/09/2018	1)ZHANG, Zaihui
(33) Name of priority country	:U.S.A.	2)JIANG, Xiaoyan
(86) International Application No	:PCT/US2019/051764	3)ROTHE, Katharina
Filing Date	:18/09/2019	4)NIU, Xiaoja
(87) International Publication No	:WO 2020/061216	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are combination therapies for treating blood cancer, in particular, acute myeloid leukemia, by concurrently targeting Axl and BCL-2.

No. of Pages : 49 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016838 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : PLANT GROWTH CONTAINER

(51) International classification :B65D0081320000,
A01G0009029000,
G01N0001280000,
A45D0040000000,
E05B0065520000
(31) Priority Document No :62/742740
(32) Priority Date :08/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/055046
Filing Date :07/10/2019
(87) International Publication No :WO 2020/076729
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)GARDYN INC.
Address of Applicant :6701 Pemberton Street Bethesda,
Maryland 20817 U.S.A.
(72)**Name of Inventor :**
1)ROUXEL, Francois-Xavier

(57) Abstract :

A plant-growing container (500) can include a lower portion (506) and a wall (502) extending upwardly from the lower portion (506). The wall (502) can include a first aperture (512). The plant-growing container (500) can further include an orifice (510) formed by an upper portion (504) of the wall (502) and configured to receive a removable seed receptacle. The plant-growing container (500) can further include a reservoir provided by a lower portion (506) of the wall (502). The container (500) can be configured to be removably inserted into a port of a module of a plant-growing system, wherein the reservoir can be configured to receive a first volume of fluid from a fluid that is circulated through the plant-growing system.

No. of Pages : 77 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016839 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ENERGY STORAGE AND CONVERSION

(51) International classification	:H02N0003000000, G01N0027447000, C02F0001480000, B03C0005020000, C02F0001463000	(71) Name of Applicant : 1)IONECH LIMITED Address of Applicant :Devonshire House 60 Goswell Road London EC1M 7AD U.K.
(31) Priority Document No	:1814767.8	(72) Name of Inventor : 1)OWEN, Nathan
(32) Priority Date	:11/09/2018	
(33) Name of priority country	:U.K.	
(86) International Application No	:PCT/EP2019/074212	
Filing Date	:11/09/2019	
(87) International Publication No	:WO 2020/053266	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device for converting energy of a fluid to electrical energy is disclosed. The device comprises a pressure vessel having an inlet port for a fluid. A pair of charge collecting electrodes is spaced apart from each other along a collection direction and disposed within the pressure vessel. An electric field generator is configured to generate an electric field in the pressure vessel along a field direction to separate charged species in the fluid. Other disclosed devices provide a current flow delay to encourage charge build up or illumination with electromagnetic radiation. Yet other devices are arranged for fluid flow rather than pressure. Also disclosed is a system comprising any one of the disclosed devices and related methods. The disclosure may find application, for example, in providing a source of energy for an electric vehicle.

No. of Pages : 25 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016840 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : BITSTREAM MERGING

(51) International classification :H04N0019700000,
H04N0019460000,
H04N0019105000,
H04N0019103000,
H04N0021234300

(31) Priority Document No :18194348.1

(32) Priority Date :13/09/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/074436
Filing Date :12/09/2019

(87) International Publication No :WO 2020/053369

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
**1)FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG
DER ANGEWANDTEN FORSCHUNG E.V.**
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Germany

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1)SKUPIN, Robert
2)SÁNCHEZ DE LA FUENTE, Yago
3)HELLGE, Cornelius
4)SCHIERL, Thomas
5)SÜHRING, Karsten
6)WIEGAND, Thomas

(57) Abstract :

A video encoder (2) for providing an encoded video representation (12), wherein the video encoder (2) is configured to provide a video stream (12) comprising encoded parameter information describing a plurality of encoding parameters (20, 22, 28, 30), encoded video content information and one or more merge identifiers indicating whether and/or how the encoded video representation (12) can be merged with another encoded video representation.

No. of Pages : 27 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016841 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INDOLE AHR INHIBITORS AND USES THEREOF

(51) International classification :A61P0035000000,
C07D0473340000,
C07D0487040000,
A61K0031506000,
C07D0241280000

(31) Priority Document No :62/746277
(32) Priority Date :16/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/056455
Filing Date :16/10/2019
(87) International Publication No :WO 2020/081636
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)IKENA ONCOLOGY, INC.
Address of Applicant :645 Summer Street, Suite 101 Boston,
Massachusetts 02210 U.S.A.
(72)**Name of Inventor :**
1)CASTRO, Alfredo, C.

(57) Abstract :

The present invention provides compounds useful as inhibitors of AHR, compositions thereof, and methods of using the same.

No. of Pages : 282 No. of Claims : 15

(54) Title of the invention : METHOD AND PLANT FOR AEREAULIC SEPARATION

(51) International classification	:B07B0004020000, B02C0017180000, G01N0035100000, B03B0009060000, B07B0013160000	(71) Name of Applicant : 1)BIGARREN BIZI Address of Applicant :Estia II Technopole Izarbel 64210 Bidart France
(31) Priority Document No	:18/58373	(72) Name of Inventor :
(32) Priority Date	:17/09/2018	1)PEYS, Stéphane
(33) Name of priority country	:France	
(86) International Application No	:PCT/IB2019/057821	
Filing Date	:17/09/2019	
(87) International Publication No	:WO 2020/058847	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for the continuous aeraulic separation of particulate materials stemming from electronic scrap and made up of a mixture of particles which are heterogeneous in terms of both particle size and density comprises the following successive steps: (a) grinding the particles, (b) generating a gas flow carrying the ground particles, (c) carrying out a first aeraulic separation over the gas flow in order to separate the particles contained therein into a first fraction made of the coarsest particles of various densities, and a second fraction made up of the finest particles, (d) carrying out a second aeraulic separation of the first fraction in order to separate the particles contained therein into a third fraction made up of the coarsest and densest particles and a fourth fraction made up of the coarsest and least dense particles, (e) reinjecting the third or the fourth fraction to the grinding input, and (f) recovering the second and the fourth fraction, or the third fraction, as applicable, as output products.

No. of Pages : 12 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016849 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : LASER WELDED RAZOR BLADES

(51) International classification	:B26B0021400000, B26B0021220000, B26B0021440000, F01D0025240000, B26B0021520000	(71) Name of Applicant : 1)BIC VIOLEX S.A. Address of Applicant :58, Agiou Athanasiou St. 145 69 Anoixi Greece
(31) Priority Document No	:18210713.6	(72) Name of Inventor :
(32) Priority Date	:06/12/2018	1)DAVOS, Vasilios
(33) Name of priority country	:EPO	2)KOULOURIAS, Georgios
(86) International Application No	:PCT/EP2019/083813	3)POLYCHRONIDIS, Petros
Filing Date	:05/12/2019	
(87) International Publication No	:WO 2020/115205	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a method for manufacturing a razor cartridge component comprising continuously feeding an elongated band of material (12), separating one or more blade support elements (34c, 34d) from the elongated band of material (12), stabilizing the one or more separated blade support elements (34c, 34d), in a stationary position; providing one or more razor blades (125a, 125b); and laser welding the one or more razor blades to respective ones of the stabilized one or more blade support elements.

No. of Pages : 20 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016851 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : TIME-DIVISION DUPLEX (TDD) ANTENNA SYSTEM

(51) International classification	:H01Q0003260000, H04L0027040000, H04L0025030000, H04L0025020000, G06F0003140000	(71) Name of Applicant : 1)VIASAT, INC. Address of Applicant :Viasat, Inc. Patent Department 6155 El Camino Real Carlsbad, CA 92009 U.S.A.
(31) Priority Document No	:62/741311	(72) Name of Inventor :
(32) Priority Date	:04/10/2018	1)RUNYON, Donald, L.
(33) Name of priority country	:U.S.A.	2)LUKE, Charles, M.
(86) International Application No	:PCT/US2019/054555	3)PANOS, Alex, C.
Filing Date	:03/10/2019	4)ZIMMERMAN, Kurt, A.
(87) International Publication No	:WO 2020/072811	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

One example includes a self-synchronizing TDD antenna system. The system includes an antenna to communicate transmit and receive signals and an antenna circuit coupled to a user communication system via a transmission line cable. The antenna circuit includes a transmission line measurement circuit to determine signal loss through the transmission line cable and an amplitude adjustment circuit to adjust amplitude of the transmit and/or receive signals based on the determined signal loss. The antenna circuit also includes a transmit detection circuit to monitor signal power of the transmit signal, and a controller to switch the amplitude adjustment circuit from a receive mode to a transmit mode in response to the monitored signal power exceeding a predetermined threshold. In the receive mode, the adjustment circuit applies a receive amplitude adjustment to the receive signal, and in the transmit mode the adjustment circuit applies a transmit amplitude adjustment to the transmit signal.

No. of Pages : 31 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016856 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DURABLE BIOFOULING PROTECTION

(51) International classification :C09D0005160000,
C12M0001000000,
C12P0007640000,
B01D0065080000,
A01N0025340000

(31) Priority Document No :62/754574

(32) Priority Date :01/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/059546
Filing Date :01/11/2019

(87) International Publication No :WO 2020/093015

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BIOFOULING TECHNOLOGIES, INC.

Address of Applicant :3110 Edward Mill Road, Suite 300
Raleigh, North Carolina 27612 U.S.A.

(72)Name of Inventor :

1)MCMURRAY, Brian

2)SHARPE, Cliff

3)TERMINI, Mike

4)RALSTON, Emily

5)STEPHENS, Abraham

6)DORMIER, Ed

7)CALCUTT, Lindsey

8)BASISTA, Joseph

(57) Abstract :

Disclosed are devices, methods and/or systems for use in protecting items and/or structures that are exposed to, submerged and/or partially submerged in aquatic environments from contamination and/or fouling due to the incursion and/or colonization by specific types and/or kinds of biologic organisms and/or plants, including the protection from micro- and/or macro-fouling for extended periods of time of exposure to aquatic environments.

No. of Pages : 140 No. of Claims : 126

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016857 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : BUTTON LITHIUM ION BATTERY AND MANUFACTURING METHOD THEREFOR

(51) International classification	:H01M0010052500, H01M0002260000, H01M0002020000, H01M0002360000, H01M0010040000	(71) Name of Applicant : 1)ZHONGSHAN ZHONGWANGDE NEW ENERGY TECHNOLOGY CO., LTD Address of Applicant :No.3 and No.4 Factory Building Dongya Area,Dache Industrial Park,Nanlang Town Zhongshan, Guangdong 528400 China
(31) Priority Document No	:201911094423.3	(72) Name of Inventor :
(32) Priority Date	:11/11/2019	1)CHEN, Wei
(33) Name of priority country	:China	2)HUANG, Xuehua
(86) International Application No	:PCT/CN2020/087693	
Filing Date	:29/04/2020	
(87) International Publication No	:WO 2021/093279	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a button lithium ion battery and a manufacturing method therefor. The lithium ion battery comprises a shell (4), a roll core (1), a central stand column (2), a pole (3) and a tab (5), wherein the shell (4) is internally provided with an accommodating cavity (43); the roll core (1) is arranged in the accommodating cavity (43); at least one end of the central stand column (2) is provided with an opening (21); the pole (3) is arranged on the shell (4), with one end of the pole (3) extending into the opening (21), and the other end of the pole (3) extending to the outside of the shell (4); and the tab (5) is connected to the roll core (1), the tab (5) extends into the opening (21) and is electrically connected to the pole (3). The thick pole (3) is electrically connected to the roll core (1) and then is embedded into the central stand column (2), such that the space in the central stand column (2) is fully utilized, the overall thickness of the shell (4) is reduced, and the utilized space of the battery is increased.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016863 A

(19) INDIA

(22) Date of filing of Application :10/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MODULATORS OF PNPLA3 EXPRESSION

(51) International classification	:C12N0015113000, C07H0021000000, A61K0031712500, A61K0031708800, A61P0003060000	(71) Name of Applicant : 1)IONIS PHARMACEUTICALS, INC. Address of Applicant :2855 Gazelle Court Carlsbad, CA 92010 U.S.A.
(31) Priority Document No	:62/733152	(72) Name of Inventor :
(32) Priority Date	:19/09/2018	1)FREIER, Susan, M.
(33) Name of priority country	:U.S.A.	2)BUI, Huynh-Hoa
(86) International Application No	:PCT/US2019/051743	
Filing Date	:18/09/2019	
(87) International Publication No	:WO 2020/061200	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present embodiments provide methods, compounds, and compositions useful for inhibiting PNPLA3 expression, which may be useful for treating, preventing, or ameliorating a disease associated with PNPLA3.

No. of Pages : 176 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016867 A

(19) INDIA

(22) Date of filing of Application :10/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MEDICAL OCCLUSION DEVICE

(51) International classification	:A61B0017000000, A61M0025100000, A61B0017122000, A61B0001000000, A61B0017120000
(31) Priority Document No	:PCT/EP2018/075716
(32) Priority Date	:23/09/2018
(33) Name of priority country	:EPO
(86) International Application No	:PCT/US2019/024065
Filing Date	:26/03/2019
(87) International Publication No	:WO 2020/060587
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)UNIVERSITAT ZÜRICH

Address of Applicant :Prorektorat VNW Rämistrasse 71 8006
Zürich Switzerland

(72)Name of Inventor :

1)MAISANO, Francesco

2)GUIDOTTI, Andrea

3)TOBIS, Idan

4)ZARBATANY, David

(57) Abstract :

An occlusion device (20) includes a compliant balloon (5) including an inflation port (3) for filling and unfilling a fluid into and from a balloon chamber (26). A distal tip element (10) and a proximal base element (4) are disposed at distal and proximal sides (28B, 28A) of the balloon (5), respectively. An elongate actuating element (9) is disposed longitudinally slidable in a balloon lumen (6) forming a longitudinal passage (27) from the proximal side (28A) to the distal side (28B) of the balloon (5), connected to the distal tip element (10), and longitudinally moveable with respect to the proximal base element (4) so as to set a distance between the distal tip element (10) and the proximal base element (4). A locking mechanism (2) is configured to maintain, between the distal tip element (10) and the proximal base element (4), the distance set using the elongate actuating element (9).

No. of Pages : 50 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016868 A

(19) INDIA

(22) Date of filing of Application :10/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ANTI-KLRG1 ANTIBODIES

(51) International classification	:A61K0039000000, C07K0016280000, A61P0037040000, A61P0019020000, A61P0017000000	(71) Name of Applicant : 1)ABCURO, INC. Address of Applicant :90 Bridge Street Newton, MA 02458 U.S.A.
(31) Priority Document No	:62/732329	(72) Name of Inventor :
(32) Priority Date	:17/09/2018	1)GULLA, Stefano, V.
(33) Name of priority country	:U.S.A.	2)THOMPSON, Kenneth Evan
(86) International Application No	:PCT/US2019/050110	
Filing Date	:06/09/2019	
(87) International Publication No	:WO 2020/060781	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to antibodies, or antigen-binding fragments thereof, that specifically binds to killer cell lectin-like receptor G1 (KLRG1). Such antibodies, or antigen-binding fragments thereof, are useful for various therapeutic or diagnostic purposes including treatment of cancers and to increase the effectiveness of vaccines.

No. of Pages : 44 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016877 A

(19) INDIA

(22) Date of filing of Application :10/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : APPARATUS FOR COMPRESSION MOULDING CONCAVE OBJECTS

(51) International classification	:B29L0031560000, B29C0043340000, B29L0001000000, B29C0031040000, B29C0033020000	(71) Name of Applicant : 1)SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA Address of Applicant :Via Selice Provinciale 17/A 40026 Imola (Bologna) Italy
(31) Priority Document No	:102018000009342	(72) Name of Inventor :
(32) Priority Date	:11/10/2018	1)PARRINELLO, Fiorenzo
(33) Name of priority country	:Italy	2)PUCCI, Fabrizio
(86) International Application No	:PCT/IB2019/058425	
Filing Date	:03/10/2019	
(87) International Publication No	:WO 2020/075020	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus comprises: - a dispensing device (2) for dispensing at least one polymeric material; - a severing element (17) for severing a dose (12) of polymeric material from the polymeric material dispensed by the dispensing device (2); - a transport element (11) for transporting the dose (12); - a mould (9) comprising a male mould element (20) and a female mould element (21), the female mould element (21) being positioned above the male mould element (20). The transport element (11) is configured to perform a first movement by moving along a path directed from the dispensing device (2) towards the mould (9), so as to bring the dose (12) to the mould (9). Moreover, the transport element (11) is configured to perform, in addition to the first movement, a second movement by rotating about an axis (H), so as to turn the dose (12) from a first orientation with which the dose (12) is received by the transport element (11), to a second orientation with which the dose (12) is released by the transport element (11) onto the male mould element (20).

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016891 A

(19) INDIA

(22) Date of filing of Application :10/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : AUTOMATIC HEADLIGHT ACTIVATION IN FOG CONDITIONS

(51) International classification	:B60Q0001140000, B60Q0001000000, G01N0033000000, F21W0102000000, F21S0041140000	(71) Name of Applicant : 1)GREENWOOD, Charles William Address of Applicant :Cowton Hall East Cowton Northallerton, Yorkshire DL7 0BL U.K.
(31) Priority Document No	:1814771.0	(72) Name of Inventor : 1)GREENWOOD, Charles William
(32) Priority Date	:11/09/2018	
(33) Name of priority country	:U.K.	
(86) International Application No	:PCT/GB2019/000130	
Filing Date	:11/09/2019	
(87) International Publication No	:WO 2020/053540	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A lighting system (100) for a vehicle comprises a headlight system (106), relative humidity measurement means configured to determine the relative air humidity outside the vehicle, and a computer system (102) operatively in communication with the headlight system (106) and the relative humidity measurement means, wherein the computer system (102) is configured to activate the headlight system (106) in response to receiving a signal from the measurement means indicating that the measured relative air humidity value exceeds a predefined threshold value of relative humidity.

No. of Pages : 14 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016904 A

(19) INDIA

(22) Date of filing of Application :10/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : BIOBASED BARRIER COATINGS

(51) International classification :B65D0065420000,
D21H0021160000,
B65D0065460000,
C09D0191000000,
D21H0017140000

(31) Priority Document No :62/730241

(32) Priority Date :12/09/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/050796
Filing Date :12/09/2019

(87) International Publication No :WO 2020/056124

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GREENTECH GLOBAL PTE, LTD.

Address of Applicant :One Raffles Place, Tower 2, #20-61
Singapore, Singapore 048616 Singapore

(72)Name of Inventor :

1)SPENDER, Jonathan

2)BILODEAU, Michael, Albert

3)MIKAIL, Samuel

(57) Abstract :

The present invention describes tunable methods of treating cellulosic materials with a barrier coating comprising a prolamine and at least one polyol fatty acid ester that provides increased oil and/or grease resistance to such materials without sacrificing the biodegradability thereof. The methods as disclosed provide for adhering of the barrier coating on articles including articles comprising cellulosic materials and articles made by such methods. The materials thus treated display higher lipophobicity and may be used in any application where such features are desired.

No. of Pages : 62 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016934 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : RADIO FREQUENCY ABLATION CATHETER, RADIO FREQUENCY ABLATION SYSTEM FOR LUNGS, AND CORRESPONDING CONTROL METHOD, CONTROL DEVICE, AND COMPUTER-READABLE STORAGE MEDIUM

(51) International classification :A61B0018000000,
A61B0018140000,
A61B0018120000,
F24H0009200000,
F28F0013080000

(31) Priority Document No :201811075817.X

(32) Priority Date :14/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/082546
Filing Date :12/04/2019

(87) International Publication No :WO 2020/052231

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HANGZHOU BRONCUS MEDICAL CO., LTD.

Address of Applicant :Room 317, Floor 3, Building 2, No. 88
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China

(72)Name of Inventor :

1)XU, Hong

2)ZHOU, Huazhen

3)WANG, Liming

4)JIANG, Song

5)SU, Chenhui

(57) Abstract :

A radio frequency ablation catheter and a control method and a control device therefor, a radio frequency ablation system for lungs and a control method and a control device therefor, and a computer-readable storage medium. The radio frequency ablation catheter comprises an electrode (1). A heat exchange medium flow channel is provided inside the electrode (1). An equalization device (20) is provided on the electrode (1). An infiltration hole (200) communicating with the heat exchange medium flow channel is provided at the equalization device (20). A heat exchange medium output from the heat exchange medium flow channel is distributed via the equalization device (20) and flows out of the same. The electrode (1) can perfuse physiological saline into a tissue to be ablated, thereby improving the electrical and thermal conductivity of the tissue to be ablated, maintaining balanced impedance, maintaining the impedance in a relatively stable state, and enabling continuous output of radio frequency energy.

No. of Pages : 83 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016940 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR DESIGNING A PROSTHETIC ELEMENT

(51) International classification	:A61F0002460000, A61C0013000000, A61F0002300000, A61M0016060000, H04L0012260000	(71) Name of Applicant : 1)DENTAL DESIGN Address of Applicant :Avenue Brugmann, 416 1180 Uccle Belgium
(31) Priority Document No	:18200412.7	(72) Name of Inventor :
(32) Priority Date	:15/10/2018	1)CHELALA, Pierre
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/077935	
Filing Date	:15/10/2019	
(87) International Publication No	:WO 2020/078989	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for designing a prosthetic element (1) that is to be executed prior to a cutting of a tooth (91) of a patient for placing the prosthetic element (1).

No. of Pages : 38 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016941 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : CODING AND DECODING OF AN OMNIDIRECTIONAL VIDEO

(51) International classification	:H04N0001320000, H04N0019164000, H04N0019140000, H04N0019105000, H04N0019000000	(71) Name of Applicant : 1)ORANGE Address of Applicant :78 rue Olivier de Serres 75015 PARIS France
(31) Priority Document No	:1859067	(72) Name of Inventor :
(32) Priority Date	:01/10/2018	1)JUNG, Joël
(33) Name of priority country	:France	
(86) International Application No	:PCT/FR2019/052254	
Filing Date	:25/09/2019	
(87) International Publication No	:WO 2020/070409	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a process for coding an image of a view (IVk) from among a plurality of views, comprising the following steps: selecting (C1) a first or a second coding method to code image data from said image; generating (C10, C12a; C10, C12b; C10, C12c) a data signal containing information (flag_proc) indicating whether it is the first or the second coding method that has been selected, and, if it is the first coding method, coding (C11a) the original image data so as to provide coded original data, and, if it is the second coding method, coding (C11b) processed image data from said image obtained by image processing of the original image data so as to provide coded processed data; and coding (C11b) information describing the image processing which has been applied.

No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016942 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD AND FLUIDIZED BED GRANULATOR FOR THE PRODUCTION OF GRANULES FROM A SLURRY

(51) International classification	:B01J0002160000, C05C0003000000, A61K0009160000, B29B0009060000, B01J0002100000
(31) Priority Document No	:18201327.6
(32) Priority Date	:18/10/2018
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2019/078314
Filing Date	:18/10/2019
(87) International Publication No	:WO 2020/079204
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)YARA INTERNATIONAL ASA
Address of Applicant :Drammensveien 131 0277 Oslo
Norway
(72)**Name of Inventor :**
1)VÖLKE, Howard

(57) Abstract :

The current invention relates to a method for granulating a slurry in a fluidized bed granulator having a main longitudinal direction from a seed end where granulation is initiated, to a product discharge end where granules are discharged from the fluidized bed granulator, comprising at least one fluidized bed compartment, an injection section and a granulation section, separated by a bottom plate comprising one or more injection nozzles, wherein a feed slurry is provided to the injection section of the fluidized bed granulator, wherein a first fraction of the feed slurry provided to the injection section is injected into the granulation section through the one or more injection nozzles and a second fraction of the feed slurry, being the remainder of the feed slurry, is passed through the injection section without being injected into the granulation section The current invention also concerns a fluidized bed granulator, in particular for the granulation of slurries, more particularly for fertilizer products such as UAS according to the method of the invention.

No. of Pages : 26 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016944 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ADJUSTABLE REFLEX SIGHT

(51) International classification :F41G0001380000,
G02B0023140000,
F41G0001300000,
E06B0007086000,
F16M0011200000

(31) Priority Document No :1851079-2

(32) Priority Date :12/09/2018

(33) Name of priority country :Sweden

(86) International Application No :PCT/SE2019/050865
Filing Date :12/09/2019

(87) International Publication No :WO 2020/055319

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AIMPOINT AB

Address of Applicant :Jägershillgatan 15 SE-213 75 MALMÖ
Sweden

(72)Name of Inventor :

1)LARSSON, Niklas

2)MARTINSSON, Olof

(57) Abstract :

An adjustable reflex sight (100) comprising an elongated sight housing (101) comprising an outer tube (102) and an inner tube (103) pivotably mounted within the outer tube and holding an optical element (104) for pivoting movement therewith, a sight adjustment mechanism (110) mounted to the housing (101) having an adjustable member (105) movably mounted within the adjustment mechanism (110) for altering a tilt angle of the inner tube (103) in relation to the outer tube (102) thereby adjusting the sight (100), a first adjustment device (111) interlinked with a second adjustment device (112), wherein the first adjustment device (111) is adjustably positionable about an axis of rotation (150) for actuating said adjustable member (105), thereby altering the tilt angle of the inner tube (103), and the second adjustment device (112) is adjustably positionable about the axis of rotation (150), such that the interlinked first adjustment device (111) and the adjustable member (105) are moved along the axis of rotation (150) in response to rotation of the second adjustment device (112).

No. of Pages : 13 No. of Claims : 18

(54) Title of the invention : ULTRASONIC SURGICAL HANDPIECE ASSEMBLY

(51) International classification	:A61B0017320000, A61M0001000000, A61B0017000000, A61F0009007000, A61B0017220000	(71) Name of Applicant : 1)STRYKER CORPORATION Address of Applicant :2825 Airview Boulevard Kalamazoo, MI 49002 U.S.A.
(31) Priority Document No	:62/735445	(72) Name of Inventor :
(32) Priority Date	:24/09/2018	1)JAMES, Megan
(33) Name of priority country	:U.S.A.	2)FINEOUT, Benjamin
(86) International Application No	:PCT/US2019/052609	3)OTA, Hidefumi
Filing Date	:24/09/2019	4)WROBLEWSKI, Jason
(87) International Publication No	:WO 2020/068756	5)ARTHUR, Marc
(61) Patent of Addition to Application Number	:NA	6)MALLERY, Erika
Filing Date	:NA	7)ROLFSEN, Steven, Jr.
(62) Divisional to Application Number	:NA	8)GRAS, Guillaume
Filing Date	:NA	9)HEAVEY, Cathal
		10)MCCARTHY, Conor

(57) Abstract :

The present disclosure relates to an ultrasonic surgical handpiece assembly comprising a surgical handpiece for use with an irrigation sleeve and ultrasonic tip. The surgical handpiece may comprise a piezoelectric transducer disposed within a housing and configured to manipulate the ultrasonic tip. One or more lumens and/or a flex circuit including an antenna may be disposed within the surgical handpiece housing. The lumen(s) may be configured to provide irrigation and/or aspiration to the irrigation sleeve and/or ultrasonic tip. The irrigation sleeve may comprise a second antenna configured to communicate with the ultrasonic handpiece antenna. The irrigation sleeve may further comprise and an alignment and/or coupling feature configured to removably secure the irrigation sleeve to the housing and orient the second antenna relative to the ultrasonic handpiece antenna. The irrigation sleeve may further comprise a lumen for supplying irrigation and/or aspiration to the ultrasonic tip.

No. of Pages : 44 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016960 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR MACHINING THE EDGE OF BORES IN THE BRANCH CONNECTORS OF A COMMON FUEL LINE, AND COMMON FUEL LINE PRODUCED IN THIS WAY

(51) International classification	:F02M0037000000, F02M0063000000, B60B0005020000, F02M0055000000, F02M0055020000	(71) Name of Applicant : 1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20 70442 Stuttgart Germany
(31) Priority Document No	:1859475	(72) Name of Inventor :
(32) Priority Date	:12/10/2018	1)MARCEAU, Cedric
(33) Name of priority country	:France	2)ALLIO, Philippe
(86) International Application No	:PCT/EP2019/076386	3)TESTUD, Laurent
Filing Date	:30/09/2019	
(87) International Publication No	:WO 2020/074296	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for machining the edge of the radial bores (21) in the connectors (2) for the branch of the injection nozzles to the axial chamber (11) of a common fuel line (100) of an injection system of an internal combustion engine, wherein, according to the method, the mouth of the radial bores (21) into the chamber (11) of the common fuel line is deburred. A connecting rim (3) in the form of a surface of revolution (3S) about the axis (ZZ) of the bore (21), said connecting rim (3) grinding down the edge (22) of the mouth of the radial bores (21) into the axial chamber (11) that protrudes from the surface (11S) of the axial chamber (11) and that (21S) of the radial bores (21), is produced.

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016961 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHOD FOR COATING A MECHANICALLY HIGHLY LOADED SURFACE OF A COMPONENT, AND COATED COMPONENT ITSELF

(51) International classification	:C04B0111000000, H01L0021280000, C23C0026000000, C23C0014580000, C04B0041000000	(71) Name of Applicant : 1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20 70442 Stuttgart Germany
(31) Priority Document No	:10 2019 206 420.5	(72) Name of Inventor :
(32) Priority Date	:03/05/2019	1)MANDL, Bernhard
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2020/058133	
Filing Date	:24/03/2020	
(87) International Publication No	:WO 2020/224859	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for coating a mechanically highly loaded surface (2) of a component (1) consisting of a hardened steel with a nitrogen and/or carbon component with an adherent or functional coating (4) for surface treatment, wherein a metallic binding material (5) is introduced into the surface (2) prior to the application of the adherent or functional coating (4) to create a graduated diffusion barrier zone (3) conforming to the surface with a proportion of metal nitride and/or metal carbide increasing towards the surface (2).

No. of Pages : 7 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016994 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ORGANIC LIGHT EMITTING DISPLAY DEVICE

(51) International classification	:H01L0027320000, G02F0001136200, H01L0051000000, H01L0051520000, H01L0027120000	(71) Name of Applicant : 1)SAMSUNG DISPLAY CO., LTD. Address of Applicant :1, Samsung-ro, Giheung-Gu Yongin-si Gyeonggi-do 17113 Republic of Korea
(31) Priority Document No	:10-2018-0109548	(72) Name of Inventor :
(32) Priority Date	:13/09/2018	1)CHO, Seung-Hwan
(33) Name of priority country	:Republic of Korea	2)CHOI, Jong-Hyun
(86) International Application No	:PCT/KR2019/010603	3)PARK, Gyung-Soon
Filing Date	:20/08/2019	4)PARK, Ju-Chan
(87) International Publication No	:WO 2020/054994	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AAAn organic light emitting display device can comprise: a substrate having a display area, which includes a first sub display area and a second sub display area positioned at a first side part of the first sub display area, and a pad area, which is positioned at a second side part, differing from the first side part of the first sub display area; a plurality of right signal wirings disposed in the second sub display areas on the substrate; a plurality of right fan-out wirings which are positioned in a pad area on the right signal wirings, the first sub display area and the second sub display area, and which include bent parts, respectively; a plurality of dummy patterns which are disposed in the first and the second sub display areas on the right signal wirings, and which are disposed to be spaced apart from the right fan-out wirings and have a lattice shape; and a plurality of sub pixel structures disposed on the dummy patterns. Therefore, the visibility of an organic light emitting display device can be relatively improved.

No. of Pages : 114 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016998 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A METHOD FOR PROVIDING VISUAL EFFECTS TO A DECORATIVE PATTERN, A CONTROL UNIT AND A SYSTEM FOR IN-LINE TREATMENT OF THREAD

(51) International classification :B65D0001020000,
G06F0009520000,
A61B0005060000,
A61M0005315000,
A61M0005310000

(31) Priority Document No :1851091-7

(32) Priority Date :15/09/2018

(33) Name of priority country :Sweden

(86) International Application No :PCT/SE2019/050791
Filing Date :27/08/2019

(87) International Publication No :WO 2020/055297

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)COLOREEL GROUP AB
Address of Applicant :Science Park 553 18 JÖNKÖPING
Sweden

(72)**Name of Inventor :**
1)EKLIND, Martin
2)STABERG, Joakim

(57) Abstract :

A method for providing visual effects to a decorative thread pattern, is provided. The method comprises i) determining an object to be produced as such decorative thread pattern, ii) determining a thread arrangement comprising a plurality of consecutive thread portions, each thread portion having a thread portion direction, wherein the entire thread arrangement corresponds to said object to be produced, iii) determining at least one visual effect of said object to be produced, said visual effect being associated with a set of thread portions of said thread arrangement and having a direction being different from at least one thread portion direction of the set of thread portions, and iv) determining a colouring scheme for a specific thread such that the visual effect is obtained when production of the decorative thread pattern, using said thread according to said thread arrangement, is performed. A control unit is also provided.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016999 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR IN-LINE TREATMENT OF THREAD

(51) International classification	:D05B0067000000, D05C0011240000, D03J0001040000, D04B0035220000, D06P0005300000	(71) Name of Applicant : 1)COLOREEL GROUP AB Address of Applicant :Science Park 553 18 Jönköping Sweden
(31) Priority Document No	:1851093-3	(72) Name of Inventor :
(32) Priority Date	:15/09/2018	1)EKLIND, Martin
(33) Name of priority country	:Sweden	2)STABERG, Joakim
(86) International Application No	:PCT/SE2019/050792	
Filing Date	:27/08/2019	
(87) International Publication No	:WO 2020/055298	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (10) for in-line treatment of thread (20) for use with a thread consuming unit (15) is provided. The system comprises a treatment unit (100) comprising at least one discharge device (150) being configured to dispense one or more coating substances onto the at least one thread (20) when activated. The system further comprises a control unit (190) configured to evaluate the thread consumption of a thread consuming device (15) based on operation data and at least one parameter being related to one or more thread consumption parameter (40), and control the dispensing from the discharge device (150) based on said evaluated thread consumption and/or adjust the thread consumption of the thread consuming device (15).

No. of Pages : 21 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017000 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR IN-LINE TREATMENT OF THREAD

(51) International classification	:D05B0067000000, D04B0035220000, D03J0001040000, D05C0011240000, D06P0005300000	(71) Name of Applicant : 1)COLOREEL GROUP AB Address of Applicant :Science Park 553 18 JÖNKÖPING Sweden
(31) Priority Document No	:1851092-5	(72) Name of Inventor :
(32) Priority Date	:15/09/2018	1)EKLIND, Martin
(33) Name of priority country	:Sweden	2)STABERG, Joakim
(86) International Application No	:PCT/SE2019/050795	
Filing Date	:27/08/2019	
(87) International Publication No	:WO 2020/055301	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (10) for in-line treatment of thread (20) for use with a thread consuming unit (15) is provided. The system comprises a treatment unit (100) having a plurality of nozzles (152a-f) arranged at different positions relative the at least one thread (20), said at least one thread (20) being in motion in use, each nozzle being configured to dispense one or more coating substances onto the at least one thread when activated, and a light detection system (60) for illuminating the at least one thread (20) in order to receive light which is reflected from the at least one thread (20) when said at least one thread (20) is illuminated.

No. of Pages : 20 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017001 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A METHOD FOR IN-LINE TREATMENT OF A THREAD AND A SYSTEM THEREFORE COMPRISING A TREATMENT UNIT AND A CONTROL UNIT CONFIGURED TO DETERMINE IF A MAINTENANCE SEQUENCE IS NEEDED

(51) International classification	:D05B0067000000, D04B0035220000, D03J0001040000, D05C0011240000, D06P0005300000	(71)Name of Applicant : 1)COLOREEL GROUP AB Address of Applicant :Science Park 553 18 JÖNKÖPING Sweden
(31) Priority Document No	:1851095-8	(72)Name of Inventor :
(32) Priority Date	:15/09/2018	1)EKLIND, Martin
(33) Name of priority country	:Sweden	2)STABERG, Joakim
(86) International Application No	:PCT/SE2019/050806	
Filing Date	:28/08/2019	
(87) International Publication No	:WO 2020/055303	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (10) for in-line treatment of thread (20) for use with a thread consuming device (15) is provided. The system comprises a treatment unit (100) comprising at least a first and a second print head (151a, 151b) each being configured to dispense one or more coating substances onto the at least one thread (20) when activated; and a control unit (190) configured to determine if a maintenance sequence is to be performed on at least the first print head (151a), and if so schedule said maintenance sequence on at least the first print head (151a). A method is further provided.

No. of Pages : 24 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017002 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A METHOD FOR IN-LINE TREATMENT OF A THREAD AND A SYSTEM THEREFORE COMPRISING A TREATMENT UNIT AND A THREAD SPEED SENSOR

(51) International classification	:D05B0067000000, D04B0035220000, D03J0001040000, D05C0011240000, D06P0005300000	(71) Name of Applicant : 1)COLOREEL GROUP AB Address of Applicant :Science Park 553 18 JÖNKÖPING Sweden
(31) Priority Document No	:1851096-6	(72) Name of Inventor :
(32) Priority Date	:15/09/2018	1)EKLIND, Martin
(33) Name of priority country	:Sweden	2)STABERG, Joakim
(86) International Application No	:PCT/SE2019/050793	
Filing Date	:27/08/2019	
(87) International Publication No	:WO 2020/055299	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (10) for in-line treatment of thread (20) for use with a thread consuming device (15) is provided. The system comprises at least one treatment unit (100) being configured to dispense one or more coating substances onto the at least one thread when activated and a thread speed sensor (50) being driven by the motion of the at least one thread (20). A method is further provided.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017003 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM AND A METHOD FOR IN-LINE TREATMENT OF ONE OR MORE THREADS FOR USE WITH THREAD CONSUMING DEVICE

(51) International classification :D03J0001040000,
D04B0035220000,
D05C0011240000,
D05B0067000000,
D06B0011000000

(31) Priority Document No :1851097-4

(32) Priority Date :15/09/2018

(33) Name of priority country :Sweden

(86) International Application No :PCT/SE2019/050794
Filing Date :27/08/2019

(87) International Publication No :WO 2020/055300

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)COLOREEL GROUP AB

Address of Applicant :Science Park 553 18 JÖNKÖPING
Sweden

(72)Name of Inventor :

1)EKLIND, Martin

2)STABERG, Joakim

(57) Abstract :

A system (10) for in-line treatment of one or more threads (20a-b) for use with a thread consuming device (15) is provided. The system comprises a treatment unit (100) having a plurality of nozzles (152a-f) being distributed in at least a first and a second dispensing zone (154a-b), the dispensing zones (154a-b) being separated in a direction being perpendicular to the longitudinal direction of the at least one thread (20a-b), said thread (20a-b) being in motion in use, each nozzle (152a-f) being configured to dispense one or more coating substances at least onto the at least one thread (20a-b) when activated, and a control unit (190) being configured to control activation of each dispensing zone (154a-b) of nozzles (152a-f) independently. A method is further provided.

No. of Pages : 18 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017004 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM FOR IN-LINE TREATMENT OF THREAD WITH A MECHANISM TO SELECTIVELY POSITION A DISCHARGE DEVICE

(51) International classification :D06P0005300000,
D05B0067000000,
D04B0035220000,
D05C0011240000,
D03J0001040000

(31) Priority Document No :1851094-1

(32) Priority Date :15/09/2018

(33) Name of priority country :Sweden

(86) International Application No :PCT/SE2019/050805
Filing Date :28/08/2019

(87) International Publication No :WO 2020/055302

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)COLOREEL GROUP AB

Address of Applicant :Science Park 553 18 JÖNKÖPING
Sweden

(72)Name of Inventor :

1)EKLIND, Martin

2)STABERG, Joakim

3)LENNARTSSON, Fredrik

(57) Abstract :

A system (10) for in-line treatment of thread (20) for use with a thread consuming device (15) is provided. The system comprises a treatment unit (100) comprising at least one discharge device (150) being configured to dispense one or more coating substances onto the at least one thread (20) when activated; and a drive unit (32) being configured to move said at least one discharge device (150) between an idle position (42) and an operational position (41) being arranged along an axis of movement (A).

No. of Pages : 16 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017005 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR BOT AUTOMATION LIFECYCLE MANAGEMENT

(51) International classification	:G06F0008710000, G05B0019418000, G06F0008700000, G06N0020000000, G06N0005020000	(71) Name of Applicant : 1)JPMORGAN CHASE BANK, N.A. Address of Applicant :383 Madison Avenue New York, New York 10179 U.S.A.
(31) Priority Document No	:16/155309	(72) Name of Inventor :
(32) Priority Date	:09/10/2018	1)MURTHY, Shamanth
(33) Name of priority country	:U.S.A.	2)GARG, Sanjay Saran
(86) International Application No	:PCT/US2019/055556	3)JANGID, Vikash Kumar
Filing Date	:10/10/2019	4)RATHORE, Vikramaditya Singh
(87) International Publication No	:WO 2020/077051	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods for Bot automation lifecycle management are disclosed. According to one embodiment, in an information processing apparatus comprising at least one computer processor, a method for Bot automation lifecycle management may include: (1) receiving information on a proposed automation process; (2) using the information, calculating a complexity score, an automation time requirement, an automation cost, an automation efficiency, and a Bot requirement; (3) calculating a feasibility score based on the complexity score, the automation time requirement, the automation cost, the automation efficiency, and the Bot requirement; (4) generating a feasibility report based on the feasibility score; (5) exporting the proposed automation process to a build process; and (6) confirming the build process as complete and assessing an actual complexity score, an actual automation time requirement, an actual automation cost, an actual automation efficiency, and an actual Bot requirement.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017006 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INFORMATION PROCESSING METHOD, TERMINAL DEVICE, AND STORAGE MEDIUM

(51) International classification	:H04W0008240000, G06F0016230000, G06Q0020060000, G06F0016583000, G11B0027020000	(71) Name of Applicant : 1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. Address of Applicant :No.18 Haibin Road,Wusha,Chang'an, Dongguan, Guangdong 523860 China
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)XU, Yang
(33) Name of priority country	:NA	2)LIU, Jianhua
(86) International Application No	:PCT/CN2018/109182	
Filing Date	:30/09/2018	
(87) International Publication No	:WO 2020/062278	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An information processing method, a terminal device, a chip, a computer-readable storage medium, a computer program product, and a computer program. The method comprises: reporting UE policy information corresponding to at least one network identifier to a network side, wherein the at least one network identifier is a network identifier corresponding to part of the UE policy information currently stored in a terminal device.

No. of Pages : 31 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017019 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : RAPIDLY AGED, HIGH STRENGTH, HEAT TREATABLE ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING THE SAME

(51) International classification	:C22F0001000000, C22F0001053000, C21D0008020000, C22F0001040000, C22C0021100000	(71) Name of Applicant : 1)NOVELIS INC. Address of Applicant :3560 Lenox Road, Suite 2000 Atlanta, Georgia 30326 U.S.A.
(31) Priority Document No	:62/758840	(72) Name of Inventor :
(32) Priority Date	:12/11/2018	1)WU, Cedric
(33) Name of priority country	:U.S.A.	2)KAMAT, Rajeev G.
(86) International Application No	:PCT/US2019/060699	3)YUAN, Yudie
Filing Date	:11/11/2019	4)LEYVRAZ, David
(87) International Publication No	:WO 2020/102065	5)RICHARD, Julie
(61) Patent of Addition to Application Number	:NA	6)KULKARNI, Rahul Vilas
Filing Date	:NA	7)REDMOND, Peter Lloyd
(62) Divisional to Application Number	:NA	8)WANG, Yi
Filing Date	:NA	9)TALLA, Rajasekhar
		10)MOHANTY, Rashmi Ranjan
		11)PIROTEALA, Tudor

(57) Abstract :

Described herein are methods of processing heat treatable aluminum alloys using an accelerated aging step, along with aluminum alloy products prepared according to the methods. The methods of processing the heat treatable alloys described herein provide a more efficient method for producing aluminum alloy products having the desired strength and formability properties. For example, conventional methods of processing alloys can require 24 hours of aging. The methods described herein, however, substantially reduce the aging time, often requiring eight hours or less of aging time.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017020 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FORMABLE, HIGH STRENGTH ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING THE SAME

(51) International classification :C22C0021100000,
C22F0001047000,
C22C0021020000,
C22F0001053000,
C22C0021000000

(31) Priority Document No :62/749158
(32) Priority Date :23/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/057581
Filing Date :23/10/2019
(87) International Publication No :WO 2020/086671
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NOVELIS INC.

Address of Applicant :3560 Lenox Road, Suite 2000 Atlanta, Georgia 30326 U.S.A.

(72)Name of Inventor :

1)DAS, Sazol Kumar

2)KAMAT, Rajeev G.

3)TALLA, Rajasekhar

4)PIROTEALA, Tudor

(57) Abstract :

Described herein are formable, high strength aluminum alloy products and methods of preparing and processing the same. The methods of preparing and processing the aluminum alloy products include casting an aluminum alloy and performing tailored rolling and downstream thermal processing steps. The resulting aluminum alloy products possess high strength and formability properties.

No. of Pages : 38 No. of Claims : 20

(54) Title of the invention : CORRECTION OF IMAGES

(51) International classification	:G01V0005000000, G01N0023087000, G01T0001208000, G07D0007120000, G06F0017150000	(71) Name of Applicant : 1)SMITHS DETECTION FRANCE S.A.S. Address of Applicant :36 rue Charles Heller 94400 Vitry-sur- Seine France 2)VIENNE, Aymeric
(31) Priority Document No	:1816014.3	(72) Name of Inventor :
(32) Priority Date	:01/10/2018	1)MAITREJEAN, Serge
(33) Name of priority country	:U.K.	2)JEGOU, Guillaume
(86) International Application No	:PCT/GB2019/052737	3)FAUGIER, Jean-Michel
Filing Date	:27/09/2019	4)BERGERAT, Cindy
(87) International Publication No	:WO 2020/070473	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an embodiment, there is disclosed a method for inspecting cargo with X-rays, comprising: scanning the cargo with a matrix comprising at least two rows of detectors, wherein each zone of the cargo irradiated by a first X ray pulse is irradiated by at least one second X ray pulse, and a radiation corresponding to the first X ray pulse is detected by a first row of the matrix, and a radiation corresponding to the at least one second pulse is detected by at least one second row of the matrix; generating a first image of the cargo for the first row of the matrix and at least one second image of the cargo for the at least one second row of the matrix; determining, for each zone of the cargo irradiated by the first X ray pulse and by the at least one second X ray pulse, a local mutual parasitic displacement between the cargo and the matrix by determining local mutual displacements between corresponding pixels of the first image and the at least one second image; determining a total mutual parasitic displacement, by summing the determined local mutual displacements; and generating a corrected image of the cargo without the mutual parasitic displacement, based on at least one of the first image and the at least one second image and on the determined total mutual parasitic displacement.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017024 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : SSAO INHIBITORS AND USES THEREOF

(51) International classification	:C07D0471040000, C07J0043000000, A61K0031506000, C07D0401040000, A61P0001160000	(71) Name of Applicant : 1)METACRINE, INC. Address of Applicant :3985 Sorrento Valley Blvd., Suite C San Diego, CA 92121 U.S.A.
(31) Priority Document No	:62/750063	(72) Name of Inventor :
(32) Priority Date	:24/10/2018	1)SMITH, Nicholas, D.
(33) Name of priority country	:U.S.A.	2)HUDSON, Andrew, R.
(86) International Application No	:PCT/US2019/057707	3)CHEN, Mi
Filing Date	:23/10/2019	4)NAGASAWA, Johnny, Y.
(87) International Publication No	:WO 2020/086747	5)BOTROUS, Iriny
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein are compounds that are semicarbazide-sensitive amine oxidase (SSAO) inhibitors, methods of making such compounds, pharmaceutical compositions and medicaments comprising such compounds, and methods of using such compounds in treating or preventing a liver disease or condition.

No. of Pages : 165 No. of Claims : 59

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017025 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : POLYETHYLENEIMINE COMPOUNDS CONTAINING N-HALAMINE AND DERIVATIVES THEREOF

(51) International classification	:A01N0059000000, A61F0013840000, A61L0015460000, A61L0009010000, C08G0073020000	(71) Name of Applicant : 1)MILLIKEN & COMPANY Address of Applicant :920 Milliken Road, M-495 Spartanburg, South Carolina 29303 U.S.A.
(31) Priority Document No	:62/747156	(72) Name of Inventor :
(32) Priority Date	:18/10/2018	1)SRIVASTAVA, Sudhanshu
(33) Name of priority country	:U.S.A.	2)FREUND, Wesley A.
(86) International Application No	:PCT/US2019/055227	3)DEY, Sanjeev K.
Filing Date	:08/10/2019	4)VALENTI, Dominick J.
(87) International Publication No	:WO 2020/081293	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to odor control molecules comprised of polyethyleneimine compounds containing N-halamine and derivatives thereof.

No. of Pages : 71 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017087 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : ROLLER BED FOR GLASS PANES

(51) International classification :C03B0035180000,
C23C0014560000,
C03B0035160000,
C03B0023035000,
B65G0013020000

(31) Priority Document No :18200125.5
(32) Priority Date :12/10/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/077398
Filing Date :09/10/2019
(87) International Publication No :WO 2020/074603
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAINT-GOBAIN GLASS FRANCE

Address of Applicant :12 Place de l'Iris Tour Saint-Gobain
92400 Courbevoie France

(72)Name of Inventor :

1)PALMANTIER, Arthur

2)ZEICHNER, Achim

3)HIS, Christian

4)VILLERMAUX, Franceline

5)MARINHA, Daniel

(57) Abstract :

The invention relates to a roller bed for the transport of glass panes, having an multiplicity of parallel transport rollers which together form a supporting surface for the glass panes, wherein each transport roller is respectively rotatably mounted at the two opposite ends of the transport roller. It is essential that one end of at least one transport roller is coupled directly to a ceramic rotary bearing. The invention further relates to a device for bending glass panes, which comprises a heatable bending chamber having at least one bending form for bending glass panes, and a roller bed according to the invention for transporting glass panes into the bending chamber. The roller bed comprises a first set of transport rollers and a second set of transport rollers, wherein the transport rollers of the first set are each at least partly arranged within the bending chamber, and the transport rollers of the second set are arranged outside the bending chamber, wherein the transport rollers of the first set each have an end which is directly coupled to a ceramic rotary bearing located in the bending chamber.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017089 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : FUEL FILTER WITH HEATER FOR EVACUATING ELECTROSTATIC CHARGE

(51) International classification	:B01D0036000000, B01D0046000000, B01D0017000000, B01D0027100000, H01R0101000000	(71) Name of Applicant : 1)SOGEFI FILTRATION Address of Applicant :Btiment COMETE 7 avenue du 8 mai 1945 78280 GUYANCOURT France
(31) Priority Document No	:18 59020	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)LALLEMAN, Xavier
(33) Name of priority country	:France	
(86) International Application No	:PCT/FR2019/052282	
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/065235	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The fuel filter (1) has, between the filter element and a housing component (3), an electrical apparatus typically forming a heater (6). The filter element (EF) includes an annular filter medium (5) and has a non-conductive flange (31) topped with a conductive device (DC), preferably formed in one piece, designed separately from the filter element. This conductive device (DC) is in direct contact with the filter medium (5) of the filter element and forms a support base for a dissipative contactor (12) that electrically connects a dissipative portion of the conductive device (DC) to the ground of the apparatus (6) or of a connector (7) thereof, for example using an elastic return member (16). It is thus made possible to create a dissipation path within the housing (2, 3), from the filter medium (5) to the connector (7), and to achieve dissipation without using walls of the housing (2, 3).

No. of Pages : 20 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017091 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : INTEGRATED MICRO-PHOTOIONIZATION DETECTOR WITH AN ULTRATHIN ULTRAVIOLET TRANSMISSION WINDOW

(51) International classification :G01N0027660000,
B01L0003000000,
A61L0002100000,
H01J0047020000,
C02F0001320000

(31) Priority Document No :62/740583

(32) Priority Date :03/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/054292
Filing Date :02/10/2019

(87) International Publication No :WO 2020/072644

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)THE REGENTS OF THE UNIVERSITY OF MICHIGAN
Address of Applicant :Office of Technology Transfer 1600
Huron Parkway, 2nd Floor Ann Arbor, Michigan 48109-2590
U.S.A.

(72)**Name of Inventor :**
1)FAN, Xudong
2)ZHU, Hongbo
3)KURABAYASHI, Katsuo

(57) Abstract :

An integrated microfluidic photoionization detector (PID) is provided including a microfluidic ionization chamber a microfluidic ultraviolet radiation chamber that is configured to generate ultraviolet photons. An ultrathin transmissive window is disposed between the microfluidic ionization chamber and the microfluidic ultraviolet radiation chamber that permits the ultraviolet photons to pass from the microfluidic ultraviolet radiation chamber into the microfluidic ionization chamber. Detection systems for one or more VOC analytes are also provided that include a gas chromatography (GC) unit including at least one gas chromatography column and an integrated microfluidic photoionization detector (PID) disposed downstream of the gas chromatography (GC) unit.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017098 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : GENERATING A DATABASE QUERY USING A DIMENSIONAL HIERARCHY WITHIN A GRAPHICAL USER INTERFACE

(51) International classification :G06F0040180000,
G06F0016220000,
G06F0040169000,
G06F0003048400,
G06F0016245500

(31) Priority Document No :16/130072

(32) Priority Date :13/09/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/050999
Filing Date :13/09/2019

(87) International Publication No :WO 2020/056246

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SIGMA COMPUTING, INC.
Address of Applicant :90 New Montgomery Street Suite 1500
San Francisco, California 94105 U.S.A.

(72)**Name of Inventor :**
1)FRANTZ, Jason D.
2)SEIDEN, Max H.
3)TRUONG, Kenneth
4)WOOLLEN, Robert C.

(57) Abstract :

Generating a database query using a dimensional hierarchy within a graphical user interface including displaying a data set within a spreadsheet structure, wherein the data set comprises a plurality of columns; displaying a list structure comprising a first level and a second level; receiving a selection of a first column of the plurality of columns as a first key for the first level in the list structure; receiving a selection of a second column of the plurality of columns as a second key for the second level in the list structure; and in response to receiving the selection of the first column and receiving the selection of the second column and based on an order of the first key and the second key in the list structure, generating the database query defining a hierarchical relationship between the first column and the second column.

No. of Pages : 20 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017099 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : MOBILITY PROCEDURE

(51) International classification	:H04W0036000000, H04L0029060000, H04W0088020000, H04L0001180000, H04W0048160000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:62/754153	(72) Name of Inventor :
(32) Priority Date	:01/11/2018	1)DA SILVA, Icaro L. J.
(33) Name of priority country	:U.S.A.	2)RAMACHANDRA, Pradeepa
(86) International Application No	:PCT/SE2019/051062	3)EKLÖF, Cecilia
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/091661	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method performed by a wireless device is disclosed, the method comprising determining that a condition to trigger a mobility procedure for the wireless device has been met, starting a timer, and determining a failure of the mobility procedure upon expiry of the timer before completion of at least part of the mobility procedure.

No. of Pages : 54 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117017100 A

(19) INDIA

(22) Date of filing of Application :12/04/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : METHODS, WIRELESS DEVICE AND NETWORK NODE FOR TRANSMISSION OF UPLINK DATA

(51) International classification	:H04W0072120000, H04W0072040000, H04W0072140000, H04L0005000000, H04L0001080000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:NA	(72) Name of Inventor :
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(57) Abstract :

Disclosed is a method performed by a wireless device (140) for wireless transmission of data to a network node (130) of a wireless communication network (100). The method comprises receiving, from the network node (130), at a first time slot, a first scheduling grant instructing the wireless device (140) to transmit first data to the network node (130) at a third time slot, and receiving, from the network node (130), at a second time slot later than the first time slot but earlier than the third time slot, a second scheduling grant instructing the wireless device (140) to transmit second data to the network node at the third time slot. The method further comprises transmitting, to the network node (130) at the third time slot, the second data, and possibly also the first data, in uplink transmission resources of the third time slot, wherein the transmission is performed in accordance with an instruction.

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