

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.

(Om Prakash Gupta)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

26TH JUNE, 2020

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**THE PATENT OFFICE
KOLKATA, 26/06/2020**

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:-

1	<p>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>	4	<p>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>
2	<p>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>	5	<p>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>
3	<p>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

www.patentoffice.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 26/06/2020

• 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>
www.patentoffice.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.

(Om Prakash Gupta)
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.

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.201811049316 A
(19) INDIA
(22) Date of filing of Application :27/12/2018 (43) Publication Date : 26/06/2020

(54) Title of the invention : HUBER SAFETY NEEDLE HAVING A SAFETY MECHANISM

(51) International classification	:A61M0005320000, A61M0005158000, A61M0005162000, A61M0025060000, A61M0025020000	(71) Name of Applicant : 1)POLY MEDICURE LIMITED Address of Applicant :Plot No. 105, Sector 59, HSIIDC Industrial Area, Faridabad, Haryana €“ 121004, INDIA Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RISHI BAID
(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 needle having safety mechanism and particularly relates to a huber needle assembly (10; 110) having safety mechanism comprising a needle hub (12; 112), a base (14; 114), a huber needle (16; 116) slidably disposed through the needle hub (12; 112), a wing holder (16; 116) having two wings (18; 118) at the opposite end of the wing holder (16; 116), a connector (24; 124) which connect the needle hub (12; 112) and the base (14; 114) for protecting the tip of the huber needle.

No. of Pages : 37 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911018899 A

(19) INDIA

(22) Date of filing of Application :11/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : POUCH HAVING TRANSPARENT WINDOW WITH ANTI-COUNTERFEITING FEATURE

(51) International classification :B65D0081260000,
B65D0081340000,
B42F0007060000,
B60R0021233800,
E04H0017160000

(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)CHATURVEDI, ASHOK

Address of Applicant :305, Third Floor Bhanot Corner,
Pamposh Enclave, GK-1 New Delhi Delhi India 110048 Delhi
India

(72)Name of Inventor :

1)CHATURVEDI, ASHOK

(57) Abstract :

The present invention relates to a flexible package for providing security against counterfeiting. The flexible package includes a plurality of panels made of a flexible polymeric substrate, which further includes a front panel, a rear panel arranged in opposite to the front panel defining an interior space of the package and at least one longitudinal narrow window portion on at least one panel. A transparent polymeric strip is having a clear high barrier coating, is sealed over the window portion towards inner side of the panel overlapping the edges of the window portion but not overlapping the entire panel, a security feature is provided on the transparent strip on at least one of its surface at a predefined location or random places or all over the strip surface for securing the package against counterfeiting.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911019997 A

(19) INDIA

(22) Date of filing of Application :21/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : GENE DELIVERY VECTOR AND METHOD THEREOF

(51) International classification	:A61K0048000000, C07K0016280000, C12N0015860000, A61K0047680000, C07K0016180000	(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 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Jayandharan Giridhara Rao
(33) Name of priority country	:NA	2)Nusrat Khan
(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 in the field of caspase polypeptides. The Invention in particular provides Adeno-associated virus based iCasp9 vectors for suicide gene delivery.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911020447 A

(19) INDIA

(22) Date of filing of Application :23/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : CULTURE MEDIUM COMPOSITION AND METHOD FOR CULTURING CELL OR TISSUE USING SAID COMPOSITION

(51) International classification :C12N0005000000,
B01F0017000000,
G03F0007004000,
C12N0005100000,
C08B0037120000

(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 :
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Address of Applicant :566/6, Bell Road, Clement Town,
Dehradun 248002, Uttarakhand, India Uttarakhand India

(72)Name of Inventor :

1)Manu Pant
2)R.P. Nautiyal
3)Chandrakumar

(57) Abstract :

The present invention relates to the field of culture media for in vitro propagation and ex vitro establishment of a commercial Cymbidium orchid hybrid. The culture media as according to the present invention comprises a composition of Murashige and Skoog (MS) basal culture medium, varied concentrations of plant growth regulators and other additives. Plant growth regulators selected from the group consisting of BAP, NAA, IAA, IB A and additives like additives agar, sucrose, isabgol, sugar and activated charcoal are selected for synergistic tissue culture media formulation which is useful for low cost regeneration of large number of tissue culture raised plantlets of Cymbidium hybrid in vitro utilizing shoot tip meristem explants. Ex vitro establishment as according to present invention comprise standardization of potting medium and growth conditions for optimal survival of tissue raised Cymbidium plantlets.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911020452 A

(19) INDIA

(22) Date of filing of Application :23/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : A COMPACT TABLE TOP DIPOLE PLASMA SYSTEM FOR PLASMA PROCESSING

(51) International classification :H01M0010440000,
G11B0017049000,
G03G0015080000,
A24D0003060000,
B65D0006220000

(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)INDIAN INSTITUTE OF TECHNOLOGY KANPUR

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Uttar Pradesh India 208016 Uttar Pradesh India

(72)Name of Inventor :

1)BAITHA, Anuj, Ram

2)BHATTACHARJEE, Sudeep

(57) Abstract :

In accordance with the purposes of the invention, the present invention as described herein provides a compact dipole plasma processing system for creating a plasma confined in a dipole magnetic field, by employing a strong permanent magnet, having a surface magnetic field of about 5000 Gauss. The magnet is suspended in free space in a vacuum chamber and is water cooled. The plasma is heated by electron cyclotron resonance, using microwaves of 2.45 GHz. The plasma processing system comprises (I) a spherical vacuum chamber (VC) where plasma is created, (II) magnet holder for keeping the magnet inside the VC and (III) the microwave (MWG) system to generate the plasma.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911021185 A

(19) INDIA

(22) Date of filing of Application :29/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : TISSUE ENGINEERING SCAFFOLD DERIVED FROM PLANT BASED MATERIAL

(51) International classification :A61L002760000,
A61L0027360000,
A61L0027380000,
C12N0005000000,
A61L0027240000

(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)Indian Institute of Technology Kanpur
Address of Applicant :Dean, Research & Development, Room
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(72)**Name of Inventor :**
1)Prerana Singh
2)Auhin Kumar Maparu
3)Sri Sivakumar
4)Beena Rai

(57) Abstract :

The current invention relates to the field of plant based tissue engineering scaffolds made with decellularized plant tissue which mimic the native micro-environment of human tissues. The current invention discloses the methods and compositions for making the decellularized plant tissue, and for making engineered mammalian tissue by growing mammalian cells on these scaffolds. The engineered scaffold does not need any functionalization with cell adhesion moieties for cell growth on it. The plant derived scaffold can be utilized to fabricate engineered tissues for application in the cosmetics and pharmaceutical industry as well as in regenerative medicine and wound healing.

No. of Pages : 30 No. of Claims : 22

(54) Title of the invention :TUBEWELL IRRIGATION STOP TIMER (TIST)"

(51) International classification	:A01G 25/16 F24F 11/77	(71)Name of Applicant : 1)MR. GULZAR SINGH Address of Applicant :39, SEC-2, INDUSTRIAL AREA, KURUKSHETRA, HARYANA-136118, INDIA Haryana India
(31) Priority Document No	A01G 25/09	(72)Name of Inventor : 1)MR. GULZAR SINGH
(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 programmable duration Irrigation Timer has been invented. The user can set the run duration in hours & minutes using buttons. The invented system includes a central Microcontroller, buttons, two digit display, output terminal. The invented timer circuit has the capability that by changing the software only, different versions of timer product has been realized. The invented timer has been designed to drive two Models, viz, Modell and Modet2, two variants Variant! and Varaint2 and Two Types, viz, Typel and Type2 from the same hardware circuit The derivation of different models, variants and types has been done by software from the same hardware circuit Modell has been designed to interface with external Single Phasing Preventer (SPP). Model2 has in-built Single Phasing Preventer. Each Model has two variants Variant 1 & Variant!. The Variant! has support for three buttons in software & Variant2 supports four buttons in software. Variant2 has further two types with difference of function performed by fourth button. Typel uses fourth button to set compensation time & Type2 uses fourth button to select hour or minute.

No. of Pages : 7 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911035470 A

(19) INDIA

(22) Date of filing of Application :03/09/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR MOBILE AGENT SECURITY IN A MOBILE AD-HOC NETWORK (MANET)

(51) International classification :H04W0084180000,
H04W0012120000,
H04W0040240000,
H04W0004380000,
G06F0016953500

(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)Dr. Parul Tomar

Address of Applicant :Department of Computer Engineering, J
C Bose University of Science & Technology, YMCA, Haryana,
121006, India Haryana India

2)Dr. Bindiya Bhatia

3)Dr. M. K. Soni

(72)Name of Inventor :

1)Dr. Parul Tomar

2)Dr. Bindiya Bhatia

3)Dr. M. K. Soni

(57) Abstract :

Present subject matter relates to a method for mobile agent (104) security in a Mobile Ad-hoc Network (MANET). The method includes determining a local trust value among nodes (102) based on a first interaction among the nodes (102). The first interaction includes sending a mobile agent (104) from a source node to a destination node. A global trust value of each node (102) is determined based on the determined local trust value. Further, the local trust value among the nodes (102) is updated based on a second interaction among the nodes (102). The second interaction includes sending a mobile agent (104) from the source node to the destination node, the mobile agent (104) carries information such as a list of global trust values along with time stamp and a faulty list. Thereafter, the global trust value of each node (102) is updated based on the updated local trust value.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911047238 A

(19) INDIA

(22) Date of filing of Application :20/11/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : GRID-FREE DE-CENTRALIZED SOLAR CUM WIND-MILL POWER PLANT WITH ENERGY EFFICIENT ELECTRIC LOADS FOR SMART COMMERCIAL BUILDINGS

(51) International classification	:G06Q0010040000, H02J0003380000, F24F0011300000, H02J0003140000, H02K0015095000	(71)Name of Applicant : 1)Prof. (Dr.) S. Devaneyan Address of Applicant :Prof &Dean [EE&ECE] Shri Ramswaroop Memorial University, Lucknow-Deva Road, Barabanki, Uttar Pradesh €“ 225003 Uttar Pradesh India 2)Dr. Shikha Singh 3)Mr. Satish Kumar Singh 4)Mr. Gaurav Singh 5)Mr. Vijay Singh Chauhan
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Prof. (Dr.) S. Devaneyan 2)Dr. Shikha Singh 3)Mr. Satish Kumar Singh 4)Mr. Gaurav Singh 5)Mr. Vijay Singh Chauhan
(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	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An efficient Grid-free de-centralized solar cum wind-mill power plant with energy efficient electric loads for smart commercial buildings is used in any size of commercial buildings with various types of loads. In these solar DC systems, inverters are optional to use, since all the electrical loads are DC in types like lights, fans, air conditioners and motor pumps. Wind mills are connected in hybrid form with solar PV modules. Conventional solar power for commercial building is generating AC power and it has lots of conversion losses. In this inverter less solar dc micro grid system, solar power is used directly as DC and to operate DC electric loads. Most of the commercial buildings are having AC electric loads and most of these loads are non-energy efficient electric loads. In this inverter less system, all the DC energy efficient electric loads are used in commercial buildings. Energy efficient electric DC loads are available various types like LED lights, DC fans, BLDC air-conditions, PMDC pump motors and so on. Photovoltaic modules and Wind-mills are hybridized the commercial buildings. All the multi star rated electric loads are operated through PIR sensor switch, so that loads are switched off, when no one in the premises.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911048392 A

(19) INDIA

(22) Date of filing of Application :26/11/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : HYBRID PASSIVE DOWNDRAFT EVAPORATIVE COOLING SYSTEM

(51) International classification	:F01P0003220000, C10J0003260000, F24C0015200000, F28D0005000000, F24F0005000000	(71) Name of Applicant : 1)DR. K. R. HARNE Address of Applicant :CH. BRAHM PRAKASH GOVERNMENT ENGINEERING COLLEGE, JAFFARPUR, NEW DELHI, INDIA Delhi India 2)PRADEEP ABASAHEB HANGARGEKAR
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR. K. R. HARNE
(33) Name of priority country	:NA	2)PRADEEP ABASAHEB HANGARGEKAR
(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 disclosed invention is a hybrid passive downdraft evaporative cooling system. The system of present invention includes a hollow conical wind catcher 102, a water tank 108 a vertical hollow downdraft shaft, an air circulator 126, a control unit 132 and a user device 134. The control unit 132 is configured to receive data from a first sensor 106, a second sensor 128, and a third sensor 136. The control unit 132 controls the water flow to a first sprinkler 116 and a second sprinkler 118 by operating a flowmeter 112 and a valve 114. The user device 134 is configured to receive real time weather notifications and to send instructions to the control unit 132 regarding desired air cooling needs of the user. The present invention provides environment friendly and efficient air cooling system that uses passive downdraft evaporative cooling technique.

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

(54) Title of the invention : WIND CUM SOLAR POWERED OPEN-AIR SEPARABLE SMART TENT FOR MILITARY APPLICATIONS

(51) International classification	:F03D0009250000, F03D0009110000, F03D0009000000, F21L0004080000, H04M0001050000	(71)Name of Applicant : 1)Prof. (Dr.) S. Devaneyan Address of Applicant :Prof &Dean [EE&ECE] Shri Ramswaroop Memorial University, Lucknow-Deva Road, Barabanki, Uttar Pradesh Pin 225003 Uttar Pradesh India
(31) Priority Document No	:NA	2)Dr. R.S. Bajpai
(32) Priority Date	:NA	3)Mr. Jay Pandey
(33) Name of priority country	:NA	4)Mr. Abhishek Kumar Saxena
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Prof. (Dr.) S. Devaneyan
(87) International Publication No	: NA	2)Dr. R.S. Bajpai
(61) Patent of Addition to Application Number	:NA	3)Mr. Jay Pandey
Filing Date	:NA	4)Mr. Abhishek Kumar Saxena
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In general conventional tents are supplied to army personnel by the authorities, which are having no electricity. In case of electricity, conventional sources are still used, but carrying mobile DG set in the war field or in the borders for security reasons are not practically viable and environment friendly. In this project, 4 persons accommodated detachable tent with a stand-alone PV modules, one small wind turbine are developed and it has DC LED lights, fans, radio and charging ports for electronic gadgets like mobile, rechargeable batteries, wireless simplex communication device.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011004462 A

(19) INDIA

(22) Date of filing of Application :31/01/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : LOW-COST PHOTOVOLTAIC CUM ELECTRIC POWERED MOBILE COLD STORAGE UNIT FOR WIDE-RANGING APPLICATIONS

(51) International classification :F28F0013000000,
F25B0021020000,
H02J0007350000,
A47G0029120000,
B65G0051010000

(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)Dr. S. Devaneyan

Address of Applicant :Prof &Dean [EE&ECE] Shri
Ramswaroop Memorial University, Lucknow-Deva Road,
Barabanki, Uttar Pradesh Pin 225003 Uttar Pradesh India

2)Dr Rajesh Kumar Porwal

3)Mr. Sunil Kumar Singh

4)Mr. Rakesh Dwevidi

(72)Name of Inventor :

1)Dr. S. Devaneyan

2)Dr Rajesh Kumar Porwal

3)Mr. Sunil Kumar Singh

4)Mr. Rakesh Dwevidi

(57) Abstract :

India has more villages and majority of the rural people from our country are engaged with producing more milk, vegetables, fishes and fresh horticultural products. However, most of the rural areas are not having cold storage units because of its huge cost. Many times, hundreds and thousands liters of milk and fresh vegetables, fruits and various types of horticultural products are simply become waste because of not having cold storage in all the Indian villages. Also it is available in immovable form. Here is the solution that a small size around 300 square feet solar powered container with electric cooling unit with grid power interface, and can be setup and installed in a moving electric vehicle and further it can be used for multipurpose applications.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006013 A

(19) INDIA

(22) Date of filing of Application :12/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR SCHEDULING GIFTS

(51) International classification	:G06Q0030060000, G06Q0030020000, G06N0003080000, G06T0007300000, G06T0015080000
(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)Praveen Singh

Address of Applicant :14, Samar House, Kathvar Parvejpur,
Mau Aima, Allahabad - 212507, Uttar Pradesh, India Uttar
Pradesh India

(72)Name of Inventor :

1)Praveen Singh

(57) Abstract :

A system and method for scheduling gifts is provided. The system includes a registration subsystem configured to register one or more users on a platform; an event creation subsystem configured to create a plurality of events, to sync a plurality of created events to a calendar on the platform; a budget selection subsystem configured to select budget for at least one of a plurality of gifts based on the one or more event details; a gift selection subsystem configured to select at least one of the plurality of gifts from a catalogue comprising a plurality of gifts based on a selected budget and the one or more event details in order to send at least one of a plurality of selected gift to the at least one of the plurality of recipients.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006826 A

(19) INDIA

(22) Date of filing of Application :17/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : TWO WAY FEEDING ARRANGEMENT SYSTEM TO INCREASE INDIVIDUAL EFFECT OVERALL HEAT TRANSFER COEFFICIENT

(51) International classification	:A61N0005100000, A61K0031517000, F28F0001120000, A61K0031706800, C09D0005240000	(71) Name of Applicant : 1)Suraj Kumar Address of Applicant :S/O: Lal Chand House No. 1313, Laxmi garden B, Street No. 2, Near ITI Jagadhri, Yamuna Nagar, Haryana-135001, India. Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Suraj 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 :

The present invention relates to a two way feeding arrangement system to increase individual effect overall heat transfer coefficient kraft FFFF MEE.

No. of Pages : 29 No. of Claims : 2

(54) Title of the invention : AN APPARATUS FOR PURIFICATION OF AIR

(51) International classification	:G01R0031260000, F28F0021080000, B01D0053320000, H02K0011330000, H01M0008024700	(71) Name of Applicant : 1)REKHA SINGH Address of Applicant :GALI NO 15, RZH-828, RAJ NAGAR, PART -2, PALAM COLONY, PALAM, SOUTH WEST DELHI, DELHI - 110077, INDIA Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)REKHA SINGH
(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 :

An apparatus for purification of air is provided. The apparatus includes a first cover including a first set of openings, wherein the first cover receives air via the first set of openings. A middle plate assembly includes a first metal plate including a first opening and a second opening; a middle plate; and a second metal plate including at least two needles, wherein each of the at least two needles positioned into corresponding first opening and the second opening of the first metal plate via the middle plate. A control unit supplies a predefined amount of electrical power to the second metal plate, wherein the predefined amount of electrical power supplied to the second metal plate produces plasma discharge using multi plasma discharge technique, in combination with the first metal plate, thereby ionizing received air. A second cover includes a second set of openings configured to exhaust ionized air.

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

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED HARDWARE CAMERA WITH PROXIMITY SENSORS AND SOFTWARE FOR REAL TIME CUSTOMER/PEOPLE/SHOPPER DETECTION AND EVENT TRIGGERING IN ANY FACILITY WITH CLOUD DATA METRICS AND INSTANT MESSAGING INTEGRATION

(51) International classification	:C21C0005480000, F04B0047000000, H04H0020180000, B29D0035060000, C01G0023070000	(71)Name of Applicant : 1)ConnectingIT Technologies Private Limited Address of Applicant :381A regent Shipra Sun City, Indrapuram, Ghaziabad, Uttar Pradesh, Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr Ravi Ramakrishnan
(33) Name of priority country	:NA	2)Shreevidya Ravi
(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 Camera Module with a Microprocessor unit, battery bank (auxiliary or solar or rechargeable or main power supply), a proximity and motion detector component to trigger the camera recording, an on-off timer module, a data card to send data to cloud using WiFi/LiFi/ 3g/4g or in future 5g and related technologies. The solution consists of cloud based AI module for face matching, Cloud database for storing the data relating to sightings of people, ability for people to link their mobile email and other personal identification voluntarily using the medium provided and sending their face snaps. It also has the ability using a web and mobile interface for shoppers and other service consumers to define rules and threshold so they can be alerted real time to shoppers/people/customers in proximity and can then send communication like discounts coupons etc to attract them to shop or act, this may also be based on derived data like time spent, calculated age of the person, gender or moods all of which can be derived from the facial attributes. The entire solution including hardware combination used (camera, processor, sensor and assembly), algorithm for face matching, software solutions and design and anything related to and implemented in the solution is being applied for in the patent application.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011014303 A

(19) INDIA

(22) Date of filing of Application :31/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART T-SHIRT

(51) International classification :A47B0039100000,
G06F0001160000,
A41D0027080000,
A61F0013420000,
G09G0005377000

(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)CT UNIVERSITY

Address of Applicant :Ferozpur Road, Sidhwan Khurd,
Punjab 142024 (India) Punjab India

(72)Name of Inventor :

1)Dr. Harmeet Singh

(57) Abstract :

A smart T-shirt (1) as a simple and easily wearable clothing, which is provisioned for single sensor based monitoring-cum-alarm system towards continuously monitoring the correct sitting posture of the person wearing it and to provide real time alerts against any deviation from the correct sitting position or posture of the person who is wearing it. The controller unit (3) , based on the signals from said single sensor (2) activates and deactivates the vibration alert for the person wearing said T-shirt and accordingly said smart T-shirt plays a role of tool to develop habit of maintaining correct sitting posture towards back-pain or spine-disorder management.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011014305 A

(19) INDIA

(22) Date of filing of Application :31/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART SHOES TO SUPPORT CORRECT WALKING AND METHOD TO MAINTAIN BLOOD CIRCULATION IN LOWER LIMBS

(51) International classification :A43B0007000000,
A43B0003000000,
A61K0047180000,
A43B0017100000,
A61H0001020000

(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)CT University

Address of Applicant :CT University Ferozepur Road,
Sidhwan Khurd, Punjab-142024 India Punjab India

(72)Name of Inventor :

1)Dr. Harmeet Singh

(57) Abstract :

The instant invention relates to a smart shoe (1) to support correct walking and method to maintain blood circulation in lower limbs, one of the said shoe out of the pair of two shoes, is provided with the smart shoe module (2) enclosed within a customized enclosure (3), wherein the circuitry of said module is suitably mounted with the accelerometer (4), FSR sensor (5), controller unit (6) and the vibrator (7). There are three main aspects of invented Smart shoes as the invented product and its functionality: (i) provides feedback to the person in the form of vibration, if the person drag the feet; (ii) helps to maintain the Blood flow in the lower limb area; and (iii) provide safety while climbing the stairs.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011014471 A

(19) INDIA

(22) Date of filing of Application :31/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : DISINFECTANT TENT THROUGH STEAM OF NEEM AND TURMERIC HERBS FOR PUBLIC SERVANTS IN COVID-19 PANDEMIC

(51) International classification	:A61K0036906600, C02F0001467000, A61K0036580000, A01N0043080000, A23L0033100000
(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)Dr. S. Devaneyan

Address of Applicant :Director €“ Centre for Innovation, Incubation and Entrepreneurship Shri Ramswaroop Memorial University, Lucknow-Deva Road, Barabanki, Uttar Pradesh €“ 225003 Uttar Pradesh India

(72)Name of Inventor :

1)Dr. S. Devaneyan

(57) Abstract :

The corona virus pandemic has shuttered almost all around the world. COVID-19 has so far killed 35,000 people and infected nearly 7.4 lakhs as on 30th March 2020 across the globe. In India many public servants like Police/defense forces, doctors, nurses, paramedics, drivers and other are working around corona affected persons closely. It is India's responsibility to safeguard them to continue their service. In order to prevent them, a disinfection Tent through Steam of NEEM and TURMERIC Herbs for Public Servants in COVID-19 Pandemic is very much useful in this critical period and completely sterilize the entire body. Neem extract with Turmeric powder mix water is converted in to steam by steam generator and sprayed via venturi-piped showers inside the semi closed tent. Person can go inside fully and stand for few seconds which sterilize their entire body. This unit has been designed and able to develop indigenously in low cost, which is removing 90% of bacteria, viruses, including novel corona virus. With this instant disinfection technology, we prevent people in public from being infected by all microorganisms, including the corona virus.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : AN APPARATUS OF STATIC PNEUMATIC ANKLE FOOT ORTHOSIS (SPAFO)

(51) International classification	:A61F0005010000, A61H0009000000, A61F0013060000, A61F0005058000, A61N0001040000	(71)Name of Applicant : 1)Dr. Manu Goyal Address of Applicant :Maharishi Markandeshwar Institute of Physiotherapy and Rehabilitation, Maharishi Markandeshwar (Deemed to be University), Mullana €“Ambala, Haryana Haryana India
(31) Priority Document No	:NA	2)Dr. N. K. Batra
(32) Priority Date	:NA	3)Ms. Satnam Kaur
(33) Name of priority country	:NA	4)Ms. Priyanka
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Manu Goyal
(87) International Publication No	: NA	2)Dr. N. K. Batra
(61) Patent of Addition to Application Number	:NA	3)Ms. Satnam Kaur
Filing Date	:NA	4)Ms. Priyanka
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein an apparatus of static pneumatic ankle foot orthosis (SPAFO) ankle brace which is used to stabilise and protect the joint and structures surrounding the joint. The present invention in field of ankle foot orthosis helps to improve venous return, support, and performance of joint, comfortability level and reduces contractures, heel sores & deep vein thrombosis. A pneumatic sheet enclose foot, ankle joint & calf which is closed with help of Velcro and three straps. An internal surface provided with inflation and deflation mechanism. Thereby, reduces the skin irritation and distribute pressure equally around the area and reduces friction level between foot and static pneumatic ankle foot orthosis (SPAFO).

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

(54) Title of the invention : A SYSTEM OF FOUR STAGE MODEL FOR ACCURATE PREDICTION OF MISSING VALUES IN HEART DISEASE DATASET

(51) International classification	:G06N0020000000, G06K0009620000, G06Q0050020000, G06T0007410000, G06N0003020000	(71)Name of Applicant : 1)MR. ROHIT LAMBA Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF ECE, MMEC, MAHARISHI MARKANDESHWAR DEEMED TO BE UNVERISITY, MULLANA, AMBALA , HARYANA, 133207, INDIA Haryana India
(31) Priority Document No	:NA	2)DR. ANURAG JAIN
(32) Priority Date	:NA	3)DR.RENU SHARMA
(33) Name of priority country	:NA	4)MS. POOJA RANI
(86) International Application No	:NA	5)DR. RAJNEESH KUMAR
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)MS. POOJA RANI
(61) Patent of Addition to Application Number	:NA	2)DR. ANURAG JAIN
Filing Date	:NA	3)DR. RAJNEESH KUMAR
(62) Divisional to Application Number	:NA	4)DR.RENU SHARMA
Filing Date	:NA	5)MR. ROHIT LAMBA

(57) Abstract :

This invention relates to a system of four stage model for accurate prediction of missing values in heart disease dataset. In the present invention Four imputation methods KNN (K Nearest Neighbour), MICE (Multivariate Imputation by Chained Equations), Mean and Mode imputation are analyzed with the help of four classifiers NB (Naive Bayes), SVM (Support Vector Machine), LR (Logistic Regression) and RF (Random Forest).When machine learning is use for design of a prediction model in medical science then higher accuracy is essential. It becomes difficult to achieve higher accuracy due to unavailability of values in certain fields of data set. Therefore, it is necessary to deal with the issue of missing values effectively. An accurate model to predict the missing values has proposed by inventors. Inventors have used Cleveland Heart disease dataset from the UCI (University of California, Irvine) repository to test the accuracy of the proposed model. To test the proposed model, missing values are artificially imparted using three different approaches namely random, MISSHASH & MISSFIB. Four imputation methods KNN (K Nearest Neighbour), MICE (Multivariate Imputation by Chained Equations), Mean and Mode imputation were analyzed with the help of four classifiers NB (Naive Bayes), SVM (Support Vector Machine), LR (Logistic Regression) and RF (Random Forest). RMSE (Root Mean Square Error) of classifiers was the evaluation parameter. It has found that MICE imputation method has outshined the other imputation methods. Moreover, its accuracy is independent of classifier and missing value distribution.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011015452 A

(19) INDIA

(22) Date of filing of Application :08/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR ESTABLISHING A TRUSTED FUNCTIONAL BLOCKCHAIN CONSENSUS

(51) International classification	:H04L0029080000, H04L0009320000, H04L0029060000, G06F0011140000, H04L0009080000	(71) Name of Applicant : 1)AHUJA, Poonam Address of Applicant :c/o Mr. Deepak Ahuja, Flat No. 103, Ratan Residency, 7/87 Tilak Nagar, Kanpur - 208002, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	2)AHUJA, Deepak
(32) Priority Date	:NA	3)AHUJA, Aditya
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)AHUJA, Aditya
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 are disclosed for establishing a trusted functional blockchain consensus over an asymmetric distributed multi-node communication network having a plurality of participating nodes. According to an aspect, the method includes: maintaining, by one or more processors of a functional blockchain consensus engine for establishing blockchain consensus of the plurality of nodes, a block of information generated at each of the plurality of nodes pertaining to one or more transactions being conducted between entities; in response to a request for accessing of a set of transactions of the one or more transactions, generating, by the one or more processors, a metablock by at least one of the plurality of nodes based on the generated block and a set of accesses enabled for each of the plurality of nodes; and establishing, by the one or more processors, the blockchain consensus among the plurality of nodes based on the generated metablock by application of one or more functions being extracted using a decryption key.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011015754 A

(19) INDIA

(22) Date of filing of Application :11/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MSC-3D WRITING PEN: MELT-SUBSTRATE RGB-COLOR 3D WRITING PEN.

<p>(51) International classification :B29C0064209000, B33Y0030000000, B29C0064118000, D06B0003280000, E04D0015040000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR) Address of Applicant :Office Address: BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY (BIET), HYDERABAD-501510, TELANGANA, INDIA. Residence Address: 538KHA/391 DEEN DAYAL 226020, UTTAR PRADESH, INDIA. Email ID: neeraj.mishra3@gmail.com Uttar Pradesh India</p> <p>2)DR. UDAY PANWAR (ASSOCIATE PROFESSOR)</p> <p>3)RATIRANJAN SENAPATI (ASIC DV ENGINEER, MICRON TECHNOLOGY INDIA LIMITED)</p> <p>4)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>5)MR. AAYUSH MANGAL</p> <p>6)MR. PAWAN KUMAR SINGH (C/F -DR. REENA SINGH)</p> <p>(72)Name of Inventor :</p> <p>1)DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR)</p> <p>2)DR. UDAY PANWAR (ASSOCIATE PROFESSOR)</p> <p>3)RATIRANJAN SENAPATI (ASIC DV ENGINEER, MICRON TECHNOLOGY INDIA LIMITED)</p> <p>4)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>5)MR. AAYUSH MANGAL</p> <p>6)MR. PAWAN KUMAR SINGH (C/F -DR. REENA SINGH)</p>
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(57) Abstract :

My invention MSC-3D Writing Pen" 3D writing pen comprising a housing which receives on one end a melt-substrate RGB- Color. An intelligent nozzle is arranged almost fully inside the housing at the other end of the barrel. The intelligent nozzle receives the melt-substrate RGB- Colour on the inside of the housing, melts the melt-substrate RGB- Color, and releases melted melt-substrate RGB- Color towards the outside. Inside the housing is a transport mechanism for moving the melt-substrate through the pen. The pen has a feed tube between the transport mechanism and the nozzle. The latter is configured to receive the melt-substrate RGB- Color from the transport mechanism. The pen has a heating coil wound around the nozzle. The heating coil is heating the intelligent nozzle and the intelligent nozzle is subsequently heating the melt-substrate RGB- Color. The heat is dissipated by providing a fan in the writing pen. An aluminium element surrounding the feed tube avoids that the melt-substrate is softening in the feed tube. In use, the 3D writing pen is provided with a melt-substrate which is entering the housing through the opening up to the transport mechanism and then subsequently in the feed tube. The pen is switched on and the transport mechanism moves the melt-substrate from the opening to the intelligent nozzle by means of a gear being in contact with the melt-substrate. When the latter reaches the nozzle, the heating element melts the melt-substrate RGB- Color to be extrude at the exit of the intelligent nozzle as melted melt-substrate. Moving the 3D writing pen with a suitable speed enables a user to create 3D objects.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011015851 A

(19) INDIA

(22) Date of filing of Application :13/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ISPT- MOBILE BANKING: INTELLIGENT AND SECURED PAYMENT TRANSFER USING MOBILE BANKING.

(51) International classification	:G06Q0020100000, G06Q0020320000, G06Q0020380000, G06Q0020400000, G06Q0020040000	(71)Name of Applicant : 1)DR. ESHA JAIN Address of Applicant :THE NORTHCAP UNIVERSITY, SECTOR 23A, HUDA, GURUGRAM, INDIA €“ 122017 Email ID: dr.eshajain1985@gmail.com Haryana India 2)DR. SIDDHARTHA SANKAR BISWAS 3)DR. SWATI WATTS 4)MR. PRASHANT VATS
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. ESHA JAIN 2)DR. SIDDHARTHA SANKAR BISWAS 3)DR. SWATI WATTS 4)MR. PRASHANT VATS
(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 Invention "ISPT- Mobile Banking" Provide secure mobile banking and payment or product/service purchase method extent which avoids security problems of the Internet and provides a rapid transfer of transactional information and other information as desired, inclusive of revenue generating advertisements with the architecture and techniques of the inventive Internet data protocol (DTP). A mobile individualized payment system comprising: a mobile client application dedicated to performing financial transactions; and a server, adapted to communicate with the client application, for providing a payment service utilizing pass-through method calls to a partner bank system. A computer-usable medium having computer program logic recorded thereon, execution of which, by a computing device, causes the computing device to perform operations comprising: establishing communications with a client device over one or more channels; receiving information comprising a transaction from the client device; providing an application programming interface that provides definitions for a generic set of functions; and calling a function on the application programming interface mapped to the, transaction, comprising calling a corresponding function on a plug-in via the application programming interface, wherein the plug-in is configured to interface with the transaction system and to associate calls made via the generic set of functions of the application programming interface with the corresponding function on specific to the transaction system configured to implement the generic set of functions.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011015852 A

(19) INDIA

(22) Date of filing of Application :13/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AUTOMATIC SANITIZED THE ELEVATOR KEY INSIDE OUTSIDE SURFACE AND AIR.

(51) International classification	:B66B0001520000, A61L0002100000, B66B0001460000, A61L0002220000, H04M0001230000	(71)Name of Applicant : 1)DR. ESHA JAIN Address of Applicant :THE NORTHCAP UNIVERSITY, SECTOR 23A, HUDA, GURUGRAM, INDIA €“ 122017 E-mail : dr.eshajain1985@gmail.com Haryana India 2)MR. VINAYAK TRIPATHI 3)DR. SWATI WATTS
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. ESHA JAIN 2)MR. VINAYAK TRIPATHI 3)DR. SWATI WATTS
(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 elevator key and other surface disinfection kit which comprises a disinfection button arranged on an operation box and a disinfection kit arranged on elevator roof, wherein the disinfection button controls and is connected with the disinfection kit. Through the elevator disinfection kit, the elevator can be effectively disinfected, thereby guaranteeing the health of passengers. The elevator button has the advantages that: 1, a physical sterilizing structure is arranged, so the elevator button can be automatically sterilized and disinfected to prevent cross infection among elevator users; and 2, the elevator button has a simple structure and high automation degree, is efficient and convenient, and is convenient to manage.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011016343 A

(19) INDIA

(22) Date of filing of Application :15/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HUMAN CORONAVIRUS: INTELLIGENT PROCESS TO DETECTING SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS (SARS COV, HCOV-OC43, HKU1, 229E, NL63)

(51) International classification	:C12Q0001700000, C12Q0001689000, C07K0014005000, G01N0033580000, C12N0015500000	(71)Name of Applicant : 1)DR. SURBHI BHATIA Address of Applicant :KING FAISAL UNIVERSITY, SAUDI ARABIA, AL HASA 31982. E- Mail: surbhibhatia1988@yahoo.com Saudi Arabia 2)MRS.PRACHI CHINMAY NAIK 3)DR DIVYA PRAKASH SHRIVASTAVA (ASSISTANT PROFESSOR) 4)MR. SIVA S 5)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS) 6)DR. RAJINDER SINGH SODHI (ASSOCIATE PROFESSOR)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. SURBHI BHATIA 2)MRS.PRACHI CHINMAY NAIK 3)DR DIVYA PRAKASH SHRIVASTAVA (ASSISTANT PROFESSOR) 4)MR. SIVA S 5)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS) 6)DR. RAJINDER SINGH SODHI (ASSOCIATE PROFESSOR)
(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 Invention Human Coronavirus provides methods and reagents for the rapid, reliable, and highly sensitive detection of the severe acute respiratory syndrome coronavirus without substantial detection of, or cross-reactivity with, other species in the coronavirus genus or species from other genera. Further, the methods and reagents of the invention can be utilized to detect the virus independent of the particular SARS CoV viral type. In addition to oligonucleotides, compositions, and reaction mixtures, the invention also relates to kits and systems for detecting these pathogenic agents, and to related computer and computer readable media. This invention provides reagents and methods for detecting the severe acute respiratory syndrome coronavirus (SARS CoV). This invention also provides related compositions, kits, systems, and computers. The use of oligonucleotide sequences as primers and/or probes for the recognition of infectious agents is one alternative to problematic immunological identification assays and other pre-existing methodologies. For example, nucleic acid probes complementary to targeted nucleic acid sequences have been used in hybridization procedures, such as Southern blots and dot blots, to detect the target nucleic acid sequence. 1. Human coronavirus OC43 (HCoV-OC43), Betacoronavirus. 2. Human coronavirus HKU1, Betacoronavirus, its genome has 75% similarity to OC43. 3. Human coronavirus 229E (HCoV-229E), Alpha coronavirus. 4. Human coronavirus NL63 (HCoV-NL63, New Haven coronavirus), Alpha coronavirus.

No. of Pages : 30 No. of Claims : 8

(54) Title of the invention : DIGITAL IDENTITY TRACKING: DIGITAL IDENTITY TRACKING TO ANY MOBILE WITH HIGH SECURITY USING MACHINE LEARNING PROGRAMMING.

<p>(51) International classification :G06Q0020380000, G06Q0020400000, G06Q0020360000, G06Q0030060000, H04L0029060000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)DR. MANJU KHARI Address of Applicant :AMBEDKAR INSTITUTE OF ADVANCED COMMUNICATION TECHNOLOGIES AND RESEARCH. COMPUTER SCIENCE AND ENGINEERING DEPARTMENT, UNDER GOVT. OF NCT OF DELHI -110031, INDIA. E-Mail: manjukhari@yahoo.co.in Delhi India 2)DR. KAVITA SHARMA 3)DR. DEEPTI MISHRA 4)SHIV NARESH SHIVHARE 5)HIMANSHU SHARMA 6)GEH RESEARCH LLP (PROF. (DR) BIPLAB KUMAR SARKAR- FOUNDER)</p> <p>(72)Name of Inventor : 1)DR. MANJU KHARI 2)DR. KAVITA SHARMA 3)DR. DEEPTI MISHRA 4)SHIV NARESH SHIVHARE 5)HIMANSHU SHARMA 6)GEH RESEARCH LLP (PROF. (DR) BIPLAB KUMAR SARKAR- FOUNDER)</p>
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(57) Abstract :

My Invention Digital Identity Tracking is A digital identity, which may include a user interface that may be displayed on a mobile computing device, may be generated to include information extracted from a physical identification card (e.g., driver license or passport), as well as information regarding validation of the physical identification card and of the consumer's identity. The digital identity may be used in place of the physical identification card. Validated identification ("ID") systems and methods as discussed in the invention provide individuals with the ability to carry and validated digital ID for everyday use, for example as part of a digital wallet, much as one uses a driver's license or other form of ID in a physical wallet. The validated ID system validates a digital form of ID (such as a scanned driver's license) for an individual, and provides a validated ID token to the individual for use, for example, with a mobile computing device (such as a smartphone). Thus, the digital form of ID, representing the actual ID of the individual, may be associated with the validated ID token, which indicates that the digital form of ID is validated (e.g., the digital form of ID is a validated digital ID). The validated ID token may then be provided or presented by the individual at various service providers/locations (such as retailers, restaurants, etc.) as a form of identification. The service providers/locations can request verification by the validated ID system of the individual's identity through use of the provided validated ID token using machine learning programme. The validated ID token may be refreshed, automatically or manually by request, on a periodic basis to increase security, prevent fraudulent use, and/or assure service providers of the validity of the individual's digital ID., and provide greater security and trust, the validated ID system may provide the validated ID token to the individual over a first network, while providing verification of the validated ID token to the service provider/location over a second network (e.g.,out-of-band" verification or authentication).

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

(54) Title of the invention : IDD-DATA ANALYTICS: INTELLIGENT DATASET DISCOVERY IN DATA ANALYTICS.

<p>(51) International classification :G06Q0010060000, G06F0016250000, G06N0005040000, G06N0020000000, G06F0016245700</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. MANJU KHARI Address of Applicant :AMBEDKAR INSTITUTE OF ADVANCED COMMUNICATION TECHNOLOGIES AND RESEARCH. COMPUTER SCIENCE AND ENGINEERING DEPARTMENT, UNDER GOVT. OF NCT OF DELHI -110031, INDIA. E-Mail: manjukhari@yahoo.co.in Delhi India</p> <p>2)DR. HIMANI BANSAL</p> <p>3)DR. HEMLATA SHARMA</p> <p>4)DR. NIDHI MATHUR</p> <p>5)DR. POOJA SAPRA</p> <p>6)MANGALMAY INSTITUTE OF ENGINEERING AND TECHNOLOGY (MR. ATUL MANGAL-CHAIRMAN)</p> <p>(72)Name of Inventor :</p> <p>1)DR. MANJU KHARI</p> <p>2)DR. HIMANI BANSAL</p> <p>3)DR. HEMLATA SHARMA</p> <p>4)DR. NIDHI MATHUR</p> <p>5)DR. POOJA SAPRA</p> <p>6)MANGALMAY INSTITUTE OF ENGINEERING AND TECHNOLOGY (MR. ATUL MANGAL-CHAIRMAN)</p>
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(57) Abstract :

My inventionIDD-Data Analyticsis an initial work package is obtained. The initial work package defines at least one hypothesis associated with a given data problem, and is generated in accordance with one or more phases of an automated data analytics lifecycle. A plurality of datasets is identified. One or more datasets in the plurality of datasets that are relevant to the at least one hypothesis are discovered. The at least one hypothesis is tested using at least a portion of the one or more discovered datasets. The method comprises the following steps. An initial work package is obtained. The initial work package defines at least one hypothesis associated with a given data problem, and is generated in accordance with one or more phases of an automated data analytics lifecycle. A plurality of datasets is identified. One or more datasets in the plurality of datasets that are relevant to the at least one hypothesis are discovered. The at least one hypothesis is tested using at least a portion of the one or more discovered datasets also described herein enable business users and data scientists to leverage methodologies that catalog and describe datasets to support hypothesis tests within a work package that is created to automate a data analytics lifecycle. It is realized here that finding the appropriate datasets for a given analysis or experiment can be one of the most challenging aspects of a data science invention. The enterprise management system includes transaction/analytic applications and an archiving system in which data object lifecycles are pre-computed when the data object is created by the transaction application or analytic application. Having pre-computed the data lifecycle via the transaction/analytic applications, an archiving system need not re-determine whether the criteria for archiving are met. When the archiving system is initiated, the archiving system may identify the data objects having lifecycle dates that match the current date and archive them directly.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011016574 A

(19) INDIA

(22) Date of filing of Application :17/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SARS-COV: CONTROL AND PREVENTION (SARS-COV) NEWLY ISOLATED HUMAN CORONAVIRUS AND REAL TIME STATUS SHARE TO GLOBAL LOCATION.

(51) International classification	:A61K0039000000, C12N0007000000, C07K0014005000, A61K0039120000, A61K0039215000	(71)Name of Applicant : 1)DR. PRASHANT KUMAR MISHRA (ASSOCIATE PROFESSOR) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING. PRANVEER SINGH INSTITUTE OF TECHNOLOGY, KANPUR, UP-209305, INDIA. E-Mail: prkm.cse@gmail.com Uttar Pradesh India 2)PAWAN KUMAR PAL (ASSISTANT PROFESSOR) 3)DR. C.M. JOSHI (DIRECTOR) 4)MANGALMAY INSTITUTE OF ENGINEERING AND TECHNOLOGY (MR. ATUL MANGAL-CHAIRMAN) 5)MR. SIVA S 6)PROF.(DR.) VANDANA SINGH (FOUNDER- ADBIGA INNOVATION)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. PRASHANT KUMAR MISHRA (ASSOCIATE PROFESSOR) 2)PAWAN KUMAR PAL (ASSISTANT PROFESSOR) 3)DR. C.M. JOSHI (DIRECTOR) 4)MANGALMAY INSTITUTE OF ENGINEERING AND TECHNOLOGY (MR. ATUL MANGAL-CHAIRMAN) 5)MR. SIVA S 6)PROF.(DR.) VANDANA SINGH (FOUNDER- ADBIGA INNOVATION)
(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 :

My Invention SARS-COV is a newly isolated human coronavirus (SARS-CoV), the causative agent of severe acute respiratory syndrome (SARS). Also provided are the nucleic acid sequence of the SARS-CoV genome and the amino acid sequences of the SARS-CoV open reading frames, as well as methods of using these molecules to detect a SARS-CoV and detect infections therewith. Immune stimulatory compositions are also provided, along with methods of their use. The known human coronaviruses are notably fastidious in cell culture, preferring select cell lines, organ culture, or suckling mice for propagation. Coronaviruses grown in cell culture exhibit varying degrees of virulence and/or cytopathic effect (CPE) depending on the host cell type and culture conditions. Coronavirus have not previously been known to cause severe disease in humans, but have been identified as a major cause of upper respiratory tract illness, including the common cold. Repeat infections in humans are common within and across serotype, suggesting that immune response to coronavirus infection in humans is either incomplete or short lived. The detected Covid19 positive case share Global Server.

No. of Pages : 23 No. of Claims : 8

(54) Title of the invention : IQS- MOBILE MESH AD-HOC NETWORK: IMPROVED QUALITY OF SERVICE IN MOBILE MESH AD-HOC NETWORK.

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p style="text-align: right;">:H04W0084180000, H04W0012060000, H04W0088160000, H04L0012660000, H04L0029060000</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. CHARU Address of Applicant :DEPARTMENT OF CSE/IT. JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, (DEEMED TO BE UNIVERSITY), JAYPEE WISH TOWN, SECTOR-128, NOIDA- 201309, UP, INDIA. E-Mail: drcharu2gandhi@gmail.com Uttar Pradesh India</p> <p>2)DR. MANJU KHARI</p> <p>3)DR. SUDAN JHA</p> <p>4)AMIT BHATI</p> <p>5)ASHISH GUPTA</p> <p>6)DR. S. ARVIND</p> <p>(72)Name of Inventor :</p> <p>1)DR. CHARU</p> <p>2)DR. MANJU KHARI</p> <p>3)DR. SUDAN JHA</p> <p>4)AMIT BHATI</p> <p>5)ASHISH GUPTA</p> <p>6)DR. S. ARVIND</p>
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(57) Abstract :

IQS- Mobile Mesh Ad-Hoc Network: IMPROVED QUALITY OF SERVICE IN MOBILE MESH AD-HOC NETWORK.

ABSTRACT My Invention €QUALITY OF SERVICE IN MOBILE MESH AD-HOC NETWORK€ • is an architectural solution in which standalone ad-hoc network cells are used as an extension of the backbone infrastructure in terms of network architecture and its service capabilities is provided. These Ad-Hoc networks will integrate to the Internet via cellular and other available access networks. This integration creates new network operators and ISP's. In its extended architecture, it is envisaged that the mobility issues are handled by utilizing the IP mobility capabilities, taking into account the mobile mesh Ad-Hoc specific requirements. The mobile mesh Ad-Hoc network is established. The mobile mesh Ad-Hoc network is a hybrid network that supports features of conventional Ad-Hoc and infrastructure networks such as fixed and mobile networks. The dynamically configurable hybrid network, which consists of mobile and fixed network subsystems, and nodes/routers can make it possible for subscriber terminal to setup a seamless radio communication access to both the radio access network subsystems and to the other mobile nodes. And also the mobile mesh ad-hoc network consists of 1-N clusters of ad-hoc terminals forming ad-hoc sub networks. Each ad-hoc cell may have at least one terminal as a Trunk Node that handles the gateway role between the backbone access networks and the terminals in the €ad-hoc cell€. The applications relating to groups may be established within the Ad-Hoc network. For example, teenager and other group networking, home networking and Internet access, authentication applications and home networking, and so forth, may be established.

No. of Pages : 23 No. of Claims : 8

(54) Title of the invention : MMP-ML-TECHNIQUE: MANAGING A MANUFACTURING PROCESS OPERATION USING MACHINE LEARNING TECHNIQUE.

<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>:G05B0019418000, G06Q0010060000, G06F0016242000, G06N0020000000, G06Q0010080000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DEEPAK VERMA (ASSISTANT PROFESSOR) Address of Applicant :MECHANICAL ENGINEERING, GRAPHIC ERA HILL UNIVERSITY, DEHRADUN-248002, UK, INDIA. E-mail: dverma.mech@gmail.com Uttarakhand India</p> <p>2)DR. TEEKAM SINGH (ASSISTANT PROFESSOR)</p> <p>3)RAMU DUBEY (ASSISTANT PROFESSOR, MATHEMATICS)</p> <p>4)DR. ARVIND KUMAR (ASSISTANT PROFESSOR)</p> <p>5)MR. BHASKAR NAUTIYAL (ASSOCIATE PROFESSOR)</p> <p>6)ADITYA AGNIHOTRI (M. TECH SCHOLAR)</p> <p>(72)Name of Inventor :</p> <p>1)DEEPAK VERMA (ASSISTANT PROFESSOR)</p> <p>2)DR. TEEKAM SINGH (ASSISTANT PROFESSOR)</p> <p>3)RAMU DUBEY (ASSISTANT PROFESSOR, MATHEMATICS)</p> <p>4)DR. ARVIND KUMAR (ASSISTANT PROFESSOR)</p> <p>5)MR. BHASKAR NAUTIYAL (ASSOCIATE PROFESSOR)</p> <p>6)ADITYA AGNIHOTRI (M. TECH SCHOLAR)</p>
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(57) Abstract :

My InventionMMP-ML-Technique" A system and method for managing a manufacturing processing operation by integrating machine learning one or more data retrieval systems with a user station. Data stored on one or more data retrieval systems is communicatively interfaced with the user station. The user stations controls one or more manufacturing processing operation in a manufacturing environment. The interfaced data is displayed by using machine learning technique on the user station to assist an operator that monitors or controls the user station in making changes in the manufacturing processing operation. All of you know the process operators (operators) in a manufacturing environment have needed access to procedures and checklists to insure safe and efficient operations. These operators are required to know important aspects of process performance such as process readings, product quality information, waste and delay rates, and measurements of raw material properties. Moreover, the operators need to know when to do preventative housekeeping and maintenance, and when to take process readings and make finished-product measurements.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011017305 A

(19) INDIA

(22) Date of filing of Application :22/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SANITIZATION DEVICE BASED ON UV RADIATIONS

(51) International classification	:A61L0002100000, A23L0003280000, A47F0003000000, A47F0011000000, G09F0003200000	(71)Name of Applicant : 1)Vibha Chopra Address of Applicant :P.G. Department of Physics & Electronics; DAV College Amritsar-143001, Punjab, India Punjab India
(31) Priority Document No	:NA	2)Sanjay J. Dhoble
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Vibha Chopra
(86) International Application No	:NA	2)Sanjay J. Dhoble
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 sanitization device based on UV radiations. The object is to provide multipurpose sanitizer unit for sanitizing fresh vegetables, fruits, utensils and all other belongings. Herein UV exposure box is utilized made of transparent fiber glass with thin layer of anti reflecting film PET on the inner side of box. UVC lamps are mounted to get maximum light from all sides to the material placed in stands with fine hole mounted in middle of box with rotating platform. Two openings, one at top and another on back side of the box are provided to pick and drop materials in stands easily. Switch with indicator and timer are mounted on front panel and AC power adapter is mounted on right side of the box. Following invention is described in detail with the help of Figure 2 of sheet 1 showing the proposed invention in 3D view.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : CVR- INTELLIGENT DEVICE: INTELLIGENT DEVICE TO COUNT THE NUMBER OF VEHICLE RUNNING ON ROAD (REAL TIME, LOCATION, RUNNING SPEED ETC.)

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B61L0027040000, B61L0025020000, B61L0023040000, B61L0023340000, G01S0017930000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)A. ILAVENDHAN Address of Applicant :GALGOTIAS UNIVERSITY. SCHOOL OF COMPUTER SCIENCE AND ENGINEERING. PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UP-203201, INDIA E-Mail: ilavendhan@galgotiasuniversity.edu.in Uttar Pradesh India</p> <p>2)M CHANDRA PRABHA</p> <p>3)Dr. R. SAMINATHAN</p> <p>4)Dr. K.M BAALAMURUGAN</p> <p>5)VIJAY RAMALINGAM</p> <p>6)DINESH BABU M</p> <p>(72)Name of Inventor :</p> <p>1)A. ILAVENDHAN</p> <p>2)M CHANDRA PRABHA</p> <p>3)Dr. R. SAMINATHAN</p> <p>4)Dr. K.M BAALAMURUGAN</p> <p>5)VIJAY RAMALINGAM</p> <p>6)DINESH BABU M</p>
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(57) Abstract :

My Invention CVR- Intelligent Device is a Methods and apparatus for real time machine vision and point-cloud data analysis are provided, for remote sensing and vehicle control. Point cloud data can be analyzed via scalable, centralized, cloud computing systems for extraction of asset information and generation of semantic maps. Machine learning components can optimize data analysis mechanisms to improve asset and feature extraction from sensor data. Optimized data analysis mechanisms can be downloaded to vehicles for use in on-board systems analyzing vehicle sensor data. Semantic map data can be used locally in vehicles, along with on board sensors, to derive precise vehicle localization and provide input to vehicle to control systems. In accordance with one aspect disclosed herein, systems and methods are described for localization and/or control of a vehicle, such as a train or automobile. Local environment sensors, which may include a machine vision system such as LiDAR, can be mounted on a vehicle. A GPS receiver may also be included to provide a first geographical position of the vehicle. A remote database and processor stores and processes data collected from multiple sources, and an on-board vehicle processor downloads data relevant for operation, safety, and/or control of the moving vehicle. The local environmental sensors generate data describing a surrounding environment, such as point-cloud data generated by a LiDAR sensor. Collected data can be processed locally, on board the vehicle, or uploaded to a remote data system for storage, processing and analysis. Analysis mechanisms (on-board and/or implemented in remote data systems) can operate on the collected data to extract information from the sensor data, such as the identification and position of objects in the local environment.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018047 A

(19) INDIA

(22) Date of filing of Application :28/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A DEVICE FOR MOBILE PHONE SANITIZATION

(51) International classification	:A61L0002100000, A61L0009200000, C02F0001320000, C02F0001500000, H04M0001170000	(71)Name of Applicant : 1)Vibha Chopra Address of Applicant :P.G. Department of Physics & Electronics; DAV College, Amritsar-143001, Punjab, India Punjab India 2)Sanjay J Dhoble
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Vibha Chopra 2)Sanjay J Dhoble
(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 relates to a device for mobile phone sanitization. The object of the proposed invention is to provide a sanitization device based on ultraviolet radiations to sterilize the surface of mobile phone from virus. Herein, the UV exposure cabinet is made of transparent fiber glass with a thin layer of anti reflecting film PET on the inner layer of box. The mobile can be irradiated with two UV-C lamps. The proposed sanitization unit ensures the germ, fungi, bacteria, virus killing upto 99.99 % and its exposure time will be decided as per the type of microbe, calculations using the required UV constant. A single mobile phone can be sanitized at a time. This is a portable device, can be placed in homes or offices. Following invention is described in detail with the help of Figure 1 of sheet 1 showing block diagram of the proposed invention.

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

(54) Title of the invention : EM-MOBILE AD-HOC NETWORK: ENHANCED MOBILE AD HOC NETWORKS (MANETS).

<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>:H04W0084180000, H04W0012060000, H04W0088160000, H04W0040020000, H04W0004020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. K. RAMKUMAR (ASSOCIATE DEAN (ENGG & TECH) & PROFESSOR) Address of Applicant :(ASSOCIATE DEAN (ENGG & TECH) & PROFESSOR) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING. SRM UNIVERSITY, DELHI - NCR, HARYANA-131029. E-MAIL: ramkumar@srmuniversity.ac.in Haryana India</p> <p>2)DR. N. SATHEESH (PROFESSOR)</p> <p>3)MR. S. BOOPALAN (ASSISTANT PROFESSOR)</p> <p>4)DR. T. POONGOTHAI (PROFESSOR)</p> <p>5)DR. S. A. KALAISELVAN (PROFESSOR)</p> <p>6)DR. SRIDHAR GANAPATHI (PROFESSOR)</p> <p>7)DR. A. AMARENDRA BABU (PROFESSOR)</p> <p>(72)Name of Inventor :</p> <p>1)DR. K. RAMKUMAR (ASSOCIATE DEAN (ENGG & TECH) & PROFESSOR)</p> <p>2)DR. N. SATHEESH (PROFESSOR)</p> <p>3)MR. S. BOOPALAN (ASSISTANT PROFESSOR)</p> <p>4)DR. T. POONGOTHAI (PROFESSOR)</p> <p>5)DR. S. A. KALAISELVAN (PROFESSOR)</p> <p>6)DR. SRIDHAR GANAPATHI (PROFESSOR)</p> <p>7)DR. A. AMARENDRA BABU (PROFESSOR)</p>
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(57) Abstract :

The Invention EM-Mobile AD-HOC Network A method and system for geocaching data packets in a MANET. The MANET is combined with a long-range network such that a wireless terminal can decide whether to rebroadcast a geocast packet over the MANET, the long-range network, or not at all, depending on the wireless terminal's proximity to the geocast region, the location of the originating wireless terminal, or both. A wireless terminal close to or within the geocast region can rebroadcast on the MANET, whereas a wireless terminal far from the geocast region can rebroadcast on the long-range network also is an architectural solution in which standalone ad-hoc network cells are used as an extension of the backbone infrastructure in terms of network architecture and its service capabilities is provided. These Ad-Hoc networks will integrate to the Internet via cellular and other available access networks. This integration creates new network operators and ISP's. In its extended architecture, it is envisaged that the mobility issues are handled by utilizing the IP mobility capabilities, taking into account the mobile mesh Ad-Hoc specific requirements. The mobile mesh Ad-Hoc network is established. The mobile mesh Ad-Hoc network is a hybrid network that supports features of conventional Ad-Hoc and infrastructure networks such as fixed and mobile networks. The dynamically configurable hybrid network, which consists of mobile and fixed network subsystems, and nodes/routers can make it possible for subscriber terminal to setup a seamless radio communication access to both the radio access network subsystems and to the other mobile nodes. And also the mobile mesh ad-hoc network consists of 1-N clusters of ad-hoc terminals forming ad-hoc sub networks.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : NANO COATING MASK TO PREVENT COVID-19 INFECTION UTILIZING BIODEGRADABLE POLYMER, NANO-MATERIALS AND INDIAN HERBAL MICROCAPSULES.

(51) International classification	:A61K0039000000, A62B0023020000, C09D0005140000, A41D0013110000, G16H0050800000	(71)Name of Applicant : 1)DR VRINCE VIMAL (ASSOCIATE PROFESSOR) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, GRAPHIC ERA HILL UNIVERSITY, DEHRADUN, UTTARAKHAND-248002, INDIA. E-mail: vvimal@ec.iitr.ac.in Uttarakhand India 2)MR. DEEPAK VERMA 3)DR. TEEKAM SINGH 4)MR. ADITYA AGNIHOTRI 5)MR. MANOJ BHATT 6)DR. SAVITA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR VRINCE VIMAL (ASSOCIATE PROFESSOR) 2)MR. DEEPAK VERMA 3)DR. TEEKAM SINGH 4)MR. ADITYA AGNIHOTRI 5)MR. MANOJ BHATT 6)DR. SAVITA
(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 :

Viruses, bacteria and fungi became the major problems nowadays and there is a lot of research being done in the development of the personal protecting gears such as drapes, gowns, and the masks. These PPEs are really needed for the protection in the era of the Pandemic. These specific PPEs are required to protect the health workers and the police who are working 24 hours for the safety of the civilians. Currently, a huge outbreak of the COVID19 pandemic is going on in the entire world, and till now there is no vaccination is available. However, globally, scientists are working very hard for the development of the vaccine for this COVID19 Pandemic. But until they found the solution for this problem, we need to follow the health guidelines issued by the health ministry for our safety. Because of that, we are working specifically towards the making of the new mask which is biodegradable and has antiviral and antibacterial properties. In this invention, we elaborate the development of the novel biodegradable Covid19 mask, which is by reinforcing the nano material and adding an Indian herb Tylophora Indica, having antibacterial and antiviral properties.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018430 A

(19) INDIA

(22) Date of filing of Application :30/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : CMSP-SUIT: COMPOSITE MATERIALS SUIT TO PROTECT FROM COVID19.

<p>(51) International classification :B29B0017000000, B29C0035020000, C08J0005240000, B82Y0030000000, C08J0005040000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)DR. R. VISWANATHAN Address of Applicant :SCHOOL OF COMPUTER SCIENCE AND ENGINEERING. GALGOTIAS UNIVERSITY. SECTOR 17A, GREATER NOIDA, UP-203201, INDIA. E-Mail: rvnathan06@gmail.com Uttar Pradesh India 2)C.RAMESHKUMAR 3)A. HEMLATHADHEVI 4)DR. THIRUPURASUNDARI 5)DR. MATAM BHEEMALINGAIAH (PROFESSOR) 6)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS)</p> <p>(72)Name of Inventor : 1)DR. R. VISWANATHAN 2)C.RAMESHKUMAR 3)A. HEMLATHADHEVI 4)DR. THIRUPURASUNDARI 5)DR. MATAM BHEEMALINGAIAH (PROFESSOR) 6)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS)</p>
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(57) Abstract :

My Invention "CMSP-Suit" is Carbon fiber reinforced epoxy based composites are most widely used as structural material in management and engineering applications such as aerospace, Covid19 Protection cloths, automotive, ship building, sports and chemical industries etc. because of their tailor made properties. Present resin system is used for design of composite pressure vessel is costly and it is not easily available. Therefore, establishing the hybrid resin management system and its characterization is challenges task in composite field. This work is to investigate the effect of hybrid resin management system on mechanical properties of carbon fiber composites. The processing of carbon fiber/epoxy composites were carried out by using Filament Winding Technique. Fabricated flat laminates were cured in the oven. Specimens was prepared according to ASTM (American Society for Testing and Materials) standard and carried out test at UTM (Unified threat management) with data acquisition system. Based on the strength of the laminates finalized the hybrid resin system. Detailed mechanical characterization completed and it can be used for composite pressure vessels for aerospace application. And also Nanocomposite materials and methods of making composite materials reinforced with carbon nanotubes are disclosed. The composite material includes an array of functionalized and aligned carbon nanotubes having a degree of functionalization of about 1.21% to about 10.871%; and a polymeric matrix material bonded to the array of functionalized and aligned carbon nanotubes. A ternary composite with thermal stability of up to at least 202° C. Is formed using a thermally stable matrix resin, high tensile fibers, and borosilicate or sodium tetra borate glass particulates. The composite has stability to acids, toxic wastes and may be formed into sheets, shapes, tubes, containers, flooring materials and the like for use in aerospace, defense, automotive, industrial, nuclear containment or simply building material applications. And also A composite material having unique thermoplastic properties and comprising organic matter and optionally one or both of inorganic matter and plastic with unique characteristics is provided. Such a composite material may be prepared from waste such as domestic waste. For preparation of the composite material, waste is dried, optionally particulated. The dried and optionally particulated waste material is then heated, while mixing under shear forces. The composite material is processed to obtain useful articles.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018432 A

(19) INDIA

(22) Date of filing of Application :30/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PC- FACE MASK: FACE MASK (RGB- NON-WOVEN FABRIC, MELT-BLOWN FABRIC (RED), PLASTIC NOSE WIRE(BLACK)) TO PROTECT COVID-2019 , OTHER VIRUS.

(51) International classification	:A41D0013110000, A61F0009020000, A62B0023020000, A62B0018080000, D04H0001560000	(71)Name of Applicant : 1)Dr. R. VISWANATHAN Address of Applicant :SCHOOL OF COMPUTER SCIENCE AND ENGINEERING. GALGOTIAS UNIVERSITY. PLOT NO. 2, YAMUNA EXPY, OPPOSITE, BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UP-203201, INDIA E-Mail: rvnathan06@gmail.com Uttar Pradesh India 2)DR.M. SASI BHUSHAN 3)DR. A. CECIL DONALD 4)Dr. K.M BAALAMURUGAN 5)VIJAY RAMALINGAM 6)DINESH BABU M
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. R. VISWANATHAN 2)DR.M. SASI BHUSHAN 3)DR. A. CECIL DONALD 4)Dr. K.M BAALAMURUGAN 5)VIJAY RAMALINGAM 6)DINESH BABU M
(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 :

This invention provides aPC- Face Mask" that is adapted to fit over the nose, mouth and chin of the wearer and to conform at its edges reasonably closely to the face and neck of the wearer. The mask may also include an eye shield. The transparent central portion comprises a rigid portion that defines a single conic section that extends into the transparent portion at an approximately 94° angle relative to the top surface of the transparent portion. In certain embodiments, the PC- Face Mask further comprises two further rigid portions that define two further conic sections in the transparent portion, each of the two further rigid portions positioned at approximately 94° relative to each of the side surfaces of the transparent portion of the mask. The PC- Face Mask further comprises a pull-away strip comprising an agent selected from the group consisting of an odor-eliminator, an odor-neutralizer, a deodorizer, a disinfectant, an odor-emitter, a chemical neutralizer, a smoke-absorbing agent, and an anti-nausea agent. IPC-Face Mask are universally used in the medical profession and elsewhere to reduce the risk of transferring infectious bacteria, Covid-19, virus and the like between the health care provider and the patient (and/or client) or in any context where nose, mouth and eye protection may be indicated. 1.RGB Non-Woven Fabric: PP Spun bond 1. Cut into 172 to 174 MM for adult size 2. Density from 20 GSM to 28 GSM 3. Regular standard or SS standard 4. Different colours available: RGB 2.Filtering Material: Melt-blown Fabric (Red): 1. Usually 28 GSM for normal, use 1-layer, 2-layers, 3-layers, 4-Layers. 2. Can choose different filtration rate: FFP1/FFP2/FFP3/ FFP4 or N95/N99, will be much more expansive 3. Sometimes, to filter gas, active carbon (high quality) will be added. 4. Cut into 1704to 175 MM for adult size 3. Blue Non-Woven Fabric: 1. Cut into 192to 197 MM for adult size 2. Density from 22 GSM to 29 GSM 3. Regular standard. 4.Plastic Nose Wire(Black): 1. 89% PE, width in 3.5MM. 5.Round Elastic Band(Black): 1. For wearer's comfort wearing, better choose elastic made from spandex and polyester. 2. Diameter from 2.8 to 3.0 MM.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018851 A

(19) INDIA

(22) Date of filing of Application :03/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : CORONAVIRUS (COVID-19) DIAGNOSTIC REAGENTS KITS.

<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</p> <p>Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p>Filing Date</p> <p>(62) Divisional to Application Number</p> <p>Filing Date</p>	<p>:C07K0014005000, C12Q0001700000, C07K0016100000, A61K0039120000, A61K0039215000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)RAMU DUBEY (ASSISTANT PROFESSOR) Address of Applicant :(MATHEMATICS) J C BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD-121006, HR, INDIA. E-mail: rdubeyjiya@gmail.com Haryana India</p> <p>2)PUNEET TOMAR (ASSISTANT PROFESSOR) 3)DR. TEJPAL SINGH CHUNDAWAT (ASSISTANT PROFESSOR) 4)RAMESH KUMAR (RESEARCH SCHOLAR) 5)DR. DIPIKA MAL 6)DR. KHUSHBOO KATHAYAT</p> <p>(72)Name of Inventor :</p> <p>1)RAMU DUBEY (ASSISTANT PROFESSOR) 2)PUNEET TOMAR (ASSISTANT PROFESSOR) 3)DR. TEJPAL SINGH CHUNDAWAT (ASSISTANT PROFESSOR) 4)RAMESH KUMAR (RESEARCH SCHOLAR) 5)DR. DIPIKA MAL 6)DR. KHUSHBOO KATHAYAT</p>
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(57) Abstract :

The invention "CORONAVIRUS (Covid-19) DIAGNOSTIC REAGENTS KITS" is an outbreak of a virulent respiratory virus, now known as Severe Acute Respiratory Syndrome (COVID19), was identified in Hong Kong, China, India (1920-2020) and a growing number of countries around the world in 2019-2020. The invention relates to nucleic acids and proteins from the COVID19 coronavirus. These nucleic acids and proteins can be used in the preparation and manufacture of vaccine formulations, diagnostic reagents, kits, etc. The invention also provides methods for treating COVID19 by administering small molecule antiviral compounds, as well as methods of identifying potent small molecules for the treatment of COVID19. The invention also relates to diagnostic reagents, kits (comprising such reagents) and methods which can be used to diagnose or identify the presence or absence of a COVID19 virus in a biological sample. The invention further includes non-coding COVID19 viral polynucleotide sequences, COVID19 viral sequences encoding for non-immunogenic proteins, conserved and variant COVID19 viral polynucleotide sequences for use in such diagnostic compositions and methods. The invention further relates to vaccine formulations comprising one or more COVID19 virus antigens and one or more other respiratory virus antigens. Additional respiratory virus antigens suitable for use in the invention include antigens from influenza virus, human rhinovirus (HRN), parainfluenza virus (PIN), respiratory syncytial virus (RSN), adenovirus, metapneumovirus, and rhinovirus. The additional respiratory virus antigen could also be from a coronavirus other than the COVID19 coronavirus. Preferably, the additional respiratory virus antigen is an influenza viral antigen.

No. of Pages : 22 No. of Claims : 9

(54) Title of the invention : MAGNETORHEOLOGICAL FLUID BASED FLEXIBLE GRINDING SET-UP

(51) International classification	:C09G1/18 H01F1/44	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. DILSHAD AHMAD KHAN
(32) Priority Date	:NA	Address of Applicant :445, TYPE-IV QUARTERS NIT,
(33) Name of priority country	:NA	HAMIRPUR HIMACHAL PRADESH-177005, INDIA Himachal
(86) International Application No	:NA	Pradesh India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. DILSHAD AHMAD KHAN
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter relates to a magnetorheological fluid based flexible grinding set-up (100), which comprises a bank of electromagnet (101), base plate (102), a driver pulley (103) which is a driver component of a transmission unit, a driven pulley (104) which is a driven component of a transmission unit, moving belt (105) made of flexible material, magnetorheological finishing fluid tank (106), variable speed mechanical stirrer (107), hydraulic pump (108), magnetorheological polishing fluid delivery line (109), magnetorheological fluid dispenser (110), electric motor (111) for rotation of workpiece of rotating shapes, workpiece holder (112), workpiece (113), Magnetorheological polishing fluid wiper (114), handle (115) to tilt the workpiece, electric motor (116) attached to the driver pulley as a part of transmission system. Magnetorheological polishing fluid is dispensed on the flexible moving belt. The Magnetorheological polishing fluid gets stiffened while it moves over the base plate due to the magnetic field generated by the bank of electromagnet. Stiffened fluid compliance deforms to the workpiece geometry and is able finish variety of workpieces such as flat, curved, channels etc.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011019499 A

(19) INDIA

(22) Date of filing of Application :08/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : INTEGRATED HAND SANITIZER TO AVOID FROM THE COVID-19

(51) International classification	:A61Q0019000000, A61K0008970000, A61Q0017000000, A01N0031020000, A61K0031045000	(71)Name of Applicant : 1)DR. MEGHA SHARMA (ASSOCIATE PROFESSOR) Address of Applicant :COLLEGE OF COMPUTING SCIENCES AND INFORMATION TECHNOLOGY. TEERTHAKER MAHAVEER UNIVERSITY. N.H. 24, DELHI RD, MORADABAD, UP-244001, INDIA. Uttar Pradesh India 2)MR. SANTOSH GOPAL NAGPURE (ASSISTANT PROFESSOR) 3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS) 4)MR. PAWAN KUMAR SINGH 5)MISS. PARI NIDHI SINGH 6)DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH RESEARCH LLP)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. MEGHA SHARMA (ASSOCIATE PROFESSOR) 2)MR. SANTOSH GOPAL NAGPURE (ASSISTANT PROFESSOR) 3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS) 4)MR. PAWAN KUMAR SINGH 5)MISS. PARI NIDHI SINGH 6)DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH RESEARCH LLP)
(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 hand sanitizer composition that provides effective skin sanitization and exhibits required flammability, while containing sufficient humectant for miniaturization of the skin includes an alcohol selected from the group consisting of alcohol(s) containing 4.4 to 8.5 carbon atoms in an amount of from about 12% to about 62% by volume, and one or more humectants present in an amount of from about 12% to about 87% by volume. Also mix according to need at the time of testing (Carbon Atoms (2% to 50 %), Rubbing Alcohol (15% to 30%), Isopropyl Alcohol (22% to 44%), Aloe Vera Gel (11% to 28%), Tea Tree Oil (125 to 38%), Lavender Oil (8% to 50 %), Lemon Juice (6% to 48%), Other required things (15 to 60 %).

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : CRITICAL PATIENTS MONITORING DEVICE: CRITICAL PATIENTS MONITORING USING (AI)ARTIFICIAL INTELLIGENCE.

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G16H0010200000, A61B0005000000, G16H0050200000, G16H0040630000, H04M0011000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. HIMANI BANSAL Address of Applicant :JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA-201014, UP, INDIA. COMPUTER SCIENCE AND ENGINEERING DEPARTMENT. E-Mail: singal.himani@gmail.com Uttar Pradesh India</p> <p>2)DR. MANJU KHARI 3)DR. SHRUTI JAISWAL</p> <p>(72)Name of Inventor :</p> <p>1)DR. HIMANI BANSAL 2)DR. MANJU KHARI 3)DR. SHRUTI JAISWAL</p>
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(57) Abstract :

My invention Critical Patients Monitoring Device is a process for remote monitoring of critical patients using artificial intelligence. The critical patients can be simultaneously monitored without patient intervention, back record tracking. A patient hears questions in the doctor's video, voice at each monitoring encounter and responds. The patient's responses are recorded at a remote local monitoring station and can be analyzed on line, offline or later. AI- Programming and video, voice process is combined to real time to the patient, during a monitoring session or encounter, questions which would be selected from a plurality of different recorded questions (last two year). The patient problem is chosen using AI, based on the patient's response. The mobile display, monitor could take several forms such as for e.g., uterine activity strips, glucometers, blood pressure cuffs, pulse monitors, electroencephalographs, etc. Preferably, four telephone lines are dedicated to each patient, one for the monitor, one for the video, voice, one as a back-up and one to sense failures. Dual tone matrix frequency signals (DTMF), radio signal may be used for transmission of monitored signals and other information which can be recognized by invented device, which is but one example of the video, voice technology which can be used.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011019932 A

(19) INDIA

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

(43) Publication Date : 26/06/2020

(54) Title of the invention : IS-TOILET: INTELLIGENT TOILET SYSTEM

(51) International classification	:E03F0001000000, B64D0011020000, E03D0005100000, E03D0009000000, A47K0013100000	(71)Name of Applicant : 1)MR. HARINDER SINGH Address of Applicant :47 PANJABI BAGH PATIALA, PUNJAB-147001, INDIA. E-mail : harinderpt11@gmail.com Punjab India 2)MR. ATUL MANGAL (CHAIRMAN) 3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS) 4)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MR. HARINDER SINGH 2)MR. ATUL MANGAL (CHAIRMAN) 3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS) 4)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)
(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 :

My Invention 'IS-Toilet' is A health monitoring toilet, comprising a toilet body, a urine monitoring unit, a stool monitoring unit, disinfecting unit, mobile apps control unit, and a data processing and control unit; the urine monitoring unit .comprising a urine collector disposed at a front end of the toilet body, one or a plurality of detecting stations, a urine conveyor and a urine cleaner ; the stool monitoring unit .comprising a stool collector , disposed at a rear end of the toilet body, one or a plurality of detecting stations, a stool conveyor and a stool cleaner; the data processing and control unit , is electrically connected with the urine detecting unit, the urine cleaner, the stool detecting unit and the stool cleaner. The detecting data share in local data in mobile apps. The disinfecting technology that uses ultraviolet light to disinfect a toilet seat and toilet bowl. The disinfecting technology is mounted to a toilet seat cover. A control is used to activate the technology when the toilet seat cover is lowered. The indicator to provide an indication that the technology is currently operating. A monitoring unit and method are provided for monitoring a vacuum toilet. The monitoring unit has a position detector for detecting the position of a toilet lid, a mechanical latching unit and a flushing control unit. The latching unit is designed to latch the toilet lid in an open position based on the weight size of a person acting on a toilet seat. The flushing control unit control the required things according to user input. The invention improved more things comfort, clean, auto control, auto sanitized, and hygienic conditions for the toilet user while using the vacuum toilet.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011019936 A

(19) INDIA

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

(43) Publication Date : 26/06/2020

(54) Title of the invention : A VENTILATOR SYSTEM AND METHODS THEREOF

(51) International classification	:A61M0016000000, A61M0016100000, A61M0016080000, A61M0016120000, A61M0016200000	(71) Name of Applicant : 1)RAJ KUMAR Address of Applicant :S/O-SH. JAGJEET LAL, 10004, GALI NAL WALI, NAWAB GANJ, DELHI-110006, INDIA Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAJ 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 :

Disclosed herein a ventilator device, including a ventilator supply system having a ventilator mask, two ambu bags, an air/oxygen source and an air/oxygen regulator system. A device of ventilator (100) comprises the essential components: Two ambu bags (101), Linear Accelerators (102), A motor (103), Plurals of Drive (104), a Power supply (105), Stainless steel covers (106), Aluminum Base Plate (107), Rings (108); and a Aluminum Frame (109). A ventilator is a machine that provides mechanical ventilation by moving breathable air into and out of the lungs, to deliver breaths to a patient who is physically unable to breathe, or breathing insufficiently.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020237 A

(19) INDIA

(22) Date of filing of Application :13/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : FIR MACHINE: AUTOMATED SYSTEM FOR FILING AND TRACKING COMPLAINTS

(51) International classification :G06Q0050180000,
G06Q0030020000,
G06Q0010100000,
C12N0015100000,
G08G0001017000

(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

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2)MR. ARCHIT GARG

3)DR. MANJU KHARI

(72)Name of Inventor :

1)MR. GOVINDA

2)MR. ARCHIT GARG

3)DR. MANJU KHARI

(57) Abstract :

My Invention "FIR Machine" is aimed to develop an Automated kiosk to file criminal complaints about all cognizable and non-cognizable offences. The invention focuses on digitising the police stations where complaint filing is still practised manually and complaints being maintained on papers till date and opening new hotspots for the same.

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

(54) Title of the invention : A SYSTEM OF ROUND ROBIN, ACTIVE MONITORING, THROTTLED, DSBP SELECTION DATA CENTER SIMULATION OVER CLOUD FOR CENTRALIZED AND DISTRIBUTED DATA CENTER BY USING LOAD BALANCING TECHNIQUES

(51) International classification	:G06F0009500000, H04L0029080000, H04L0029060000, H04N0021218000, G06F0001260000	(71)Name of Applicant : 1)Shivani Dubey Address of Applicant :Assistant Professor, JSS Academy of Technical Education, Noida, Uttar Pradesh, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	2)Dr. Neha Gupta
(32) Priority Date	:NA	3)Vikas Singhal
(33) Name of priority country	:NA	4)Dr. Sunayana Jain
(86) International Application No	:NA	5)Dr. Latika Singh
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Shivani Dubey
(61) Patent of Addition to Application Number	:NA	2)Dr. Neha Gupta
Filing Date	:NA	3)Vikas Singhal
(62) Divisional to Application Number	:NA	4)Dr. Sunayana Jain
Filing Date	:NA	5)Dr. Latika Singh

(57) Abstract :

This invention relates to a system of Round Robin, Active Monitoring, Throttled, DSBP Selection Data Centre Simulation over cloud by using Load Balancing Techniques for CDC and DDC. Cloud based applications are delivered as a service over internet and cloud resources are distributed among the different users for giving permission to customers to utilize the resources as per their demand. Quality of Service (QoS) must be required in cloud computing, so various researchers are facing challenges to update cost efficient, effective response time and QoS for selecting data centers included different problems. Enlarged resource consumption and higher user agreement are the main features of cloud computing by ensuring the allotment of specific resource generated by load balancing. Effective load balancing includes avoiding bottleneck in network, minimizing resource utilization, enabling scalability etc in centralized data center (CDC) and distributed data center (DDC) environment over cloud. Load balancing is a self proceeded approach for selecting data center in any environment for user demands. Load balancing has variety of approaches to easily implement the big demand execution in data center to effectively perform over cloud. In this paper we present round robin, active monitoring, throttled and our proposed distributed service broker policy DSBP techniques simulation based on Cloud Analyst which helps to select selection of effective data center over cloud.

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

(54) Title of the invention : STP-MASK: SMART MASK IN TIMES OF PANDEMIC

<p>(51) International classification :A62B0023020000, A62B0018100000, A41D0013110000, A62B0018020000, B65D0047200000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number:NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)MR. HARINDER SINGH Address of Applicant :47 PANJABI BAGH PATIALA, PUNJAB-147001, INDIA. E-mail : harinderpt11@gmail.com Punjab India</p> <p>2)DR. VRUSHSEN PURUSHOTTAM PAWAR</p> <p>3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>4)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)</p> <p>(72)Name of Inventor :</p> <p>1)MR. HARINDER SINGH</p> <p>2)DR. VRUSHSEN PURUSHOTTAM PAWAR</p> <p>3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>4)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)</p>
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(57) Abstract :

My Invention STP-Mask is a negative pressure respirator that has an integrally-disposed filter element and that covers at least the nose and mouth of a wearer. The respirator includes an exhalation valve and an impactor element that covers the exhalation valve. The filter valve has a diaphragm and an orifice and opens in response to increased pressure when the wearer exhales to allow exhaled air to be rapidly purged from the mask interior. The impactor element is positioned in the exhale flow stream to remove particles and other contaminants from the exhaled air. The STM-Mask Technology is beneficial because it provides comfort to the wearer by not allowing any bacteria, virus, coronavirus (more than 93%), etc. and allowing warm, moist, CCh-content air to be rapidly-evacuated from the mask interior through the valve. The activated carbon fiber mask which comprises a mask body, and an activated carbon fiber material layer is arranged in the mask body. A mask body that defines an interior gas space and an exterior gas space, the mask body comprising an integrally-disposed inhale filter layer for filtering inhaled air that passes through the mask body. An exhalation valve disposed on the mask body, the exhalation valve having a valve diaphragm and at least one orifice, the valve diaphragm and the orifice being constructed to the exterior gas space. 1.CMY (Cyan, Magenta and Yellow) Non-Woven Fabric: PP Spun bond Cut into 165 to 185 MM for adult size Density from 16 GSM to 28 GSM Regular standard or SS standard Different colours available: CMY (Cyan, Magenta and Yellow) 2.Filtering Material: Melt-blown Fabric: Usually 22 GSM for normal, use one layer or two layers. Can choose different filtration rate: FFP1/FFP2/FFP3 or N95/N99, will be much more expensive Sometimes, to filter gas, active carbon will be added. Cut into 165 to 178 MM for adult size 3.Yellow Non-Woven Fabric: Cut into 165 to 185 MM for adult size Density from 16 GSM to 28 GSM Regular standard or SS standard 4.Plastic Nose Wire: 100% PE, width in 3 to 6 MM Some manufacturer also uses single core or double core type 5.Round Elastic Band: For wearer's comfort wearing, better choose elastic made from spandex and polyester. Diameter from 2.2 to 3.0 MM

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020418 A

(19) INDIA

(22) Date of filing of Application :14/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SANITIZING APPARATUS AND METHOD FOR DISPENSING SANITIZER SOLUTION

(51) International classification	:A61L0002220000, A01N0031020000, A47K0005120000, B05B0015520000, A61B0034350000	(71)Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Shubhi Sharma 2)Neel Adwani
(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 sanitizing apparatus and method for dispensing sanitizer solution. The sanitizing apparatus includes a chassis to house components that include an ESP32 CAM or a development board with a camera, servomechanism motors, motor shield, battery-operated (BO) motors, and a submersible pump. The camera visually monitors a sanitization area and captures progress data of the sanitization area. The servomechanism motors dispense the sanitizer solution on receiving a spray command signal from a computing device. The computing device comprises a mobile application to initiate the spray command signal. The servomechanism motors move in an opposite direction to each other to act as an actuator and spray the sanitizer solution. The motor shield provides a predefined voltage to control the servomechanism motors. The BO motors mobilize the servomechanism motors to initiate a pumping mechanism to dispense the sanitizer solution. The submersible pump establishes a connection with the ESP32 CAM. The most illustrative drawing: FIG. 1.

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

(54) Title of the invention : IOT BASED SMART FOOD TRANSPORT SYSTEM WITH CLIMATE CONTROL CONTAINER

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06Q0010080000, A23L0003346300, B65D0079020000, A23L0003358000, G01N0033680000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Aditi Sharma Address of Applicant :Associate Professor, Computer Science and Engineering, Quantum University, Roorkee, Dehradun Highway, Mandawar, Roorkee, Uttarakhand - 247167 Uttarakhand India</p> <p>2)Mr. S.PALANIYAPPAN</p> <p>3)Mr. J. Thimmia Raja</p> <p>4)Dr. Achyuth Sarkar</p> <p>5)Dr.K.Sathesh Kumar</p> <p>6)Dr. C. Kirubakaran</p> <p>7)Mr. K.S.GOWTHAMAN</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Aditi Sharma</p> <p>2)Mr. S.PALANIYAPPAN</p> <p>3)Mr. J. Thimmia Raja</p> <p>4)Dr. Achyuth Sarkar</p> <p>5)Dr.K.Sathesh Kumar</p> <p>6)Dr. C. Kirubakaran</p> <p>7)Mr. K.S.GOWTHAMAN</p>
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(57) Abstract :

Food supply is becoming an essential need in day-today life. Food should be delivered to the customers on time and with good quality. During transportation the atmospheric conditions can damage the quality of food, so monitoring the food condition ,tracking the containers are the major factors .Hence climatic controlled containers are to be used for food safety and GPS is to be used for tracking the containers. Sensors helps to sense climatic condition, drivers' activities, status of container. This all information is stored in cloud and displayed. Thus, IoT integrates the devices and helps in transmitting the information in real time globally. IoT plays a major role in a facilitating safe and comfortable driving, smart, intelligent vehicles and delivering quality food. It is proposed to use Vehicle to Vehicle communications for safety purpose.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020464 A

(19) INDIA

(22) Date of filing of Application :14/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : WASTE PAPER RECYCLING DEVICE

(51) International classification	:D21B0001320000, D21C0005020000, B26D0007180000, D21B0001100000, D21J0003000000	(71) Name of Applicant : 1)GraphicEra Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement town, Dehradun-248002, Uttrakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. VIJAY KUMAR
(33) Name of priority country	:NA	2)Dr. SHIPRA GUPTA
(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 discloses a waste paper recycling device for automatically recycling waste paper without human intervention, said device comprising: a shredding section, a pulping section, a water removal section, a screw pressing section, a cutting section, a processor, and a memory communicatively coupled to the processor, and wherein the memory stores processor instructions, which, on execution, causes the processor to: shred a waste paper to transform different sizes of waste paper into a small piece of paper in large amount; pulp said small piece of paper by mixing with water using a plurality of blades; remove water from output of said pulping section using each of a vibrator and a plurality of filters; press output of said water removal section by applying pressure through a screw system to prepare a thin paper sheet; and cut said thin paper sheet into a plurality of sizes.

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

(54) Title of the invention : €ANTITHROMBOTIC AND ANTIHYPERTENSIVE PEPTIDES€ •

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:C07K0001040000, A23L0033180000, A23C0009123000, A23C0009142000, G01N0033940000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. K. Nagarajan Address of Applicant :KIET Group of Institutions, 13 km stone, Ghaziabad-Meerut road, NH-58, Muradnagar, NCR Ghaziabad, 201206 Uttar Pradesh India</p> <p>2)Dr. Parul Grover</p> <p>3)Dr. Roma Ghai</p> <p>4)Dr. Garima Kapoor</p> <p>5)Ms. Richa Goel</p> <p>6)Ms. Ranjana Ranjan</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Ramesh B. Bodia</p> <p>2)Dr. K. Nagarajan</p> <p>3)Dr. Garima Kapoor</p> <p>4)Dr. Vibhav Kumar Sachan</p> <p>5)Dr. Parul Grover</p> <p>6)Dr. Roma Ghai</p> <p>7)Ms. Richa Goel</p> <p>8)Ms. Ranjana Ranjan</p>
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(57) Abstract :

The invention relates to a process for identifying and preparing a product containing antihypertensive and antithrombotic peptides by Synthesizing various combinations of dipeptides and tripeptides in sequence specific manner by solid phase peptide synthesis using polystyrene as support followed by the assessment of various combinations of dipeptides and tripeptides to selected macromolecular targets present in blood serum namely: Glutamate Oxaloacetate Transaminase (SGOT) Tyrosine kinase, Lactate dehydrogenase (LDH), Permeability Glycoprotein (PGP) and Glycoprotein-VI (GP-6) antagonist as chosen targets. After the toxicological and biological evaluation of synthesized peptides dipeptide- Leu-Lys, tripeptides - Ala-Cys-Pro, Gly-Trp-Ile, and Gly-Met-Trp were identified as most useful for the treatment of pathological thrombosis and pulmonary hypertension with reduced cardiotoxicity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020474 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A DRIVER-ASSISTANCE SYSTEM AND METHOD FOR ASSISTING A DRIVER DURING NIGHT AND FOGGY WEATHER

(51) International classification	:G02B0027010000, B60W0050140000, B62D0015020000, H04N0005330000, H04N0017000000	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANKUR KOHLI
(33) Name of priority country	:NA	2)JASJIT SINGH
(86) International Application No	:NA	3)AAYUSH VATS
Filing Date	:NA	4)DR. DEEPAK KUMAR
(87) International Publication No	: NA	5)DR. AJAY KUMAR
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System and method for assisting a driver of a vehicle are based on cameras (118) to capture a field of view (FOV) of the vehicle; and a monitoring screen (120) embedded on a windshield to operate in a normal mode during a day to provide normal visibility of the FOV, and in a thermal mode to provide a thermal visualization of the FOV on the monitoring screen (120) based on the captured FOV during night and in foggy weather. A control unit (108) is provided to receive a set of input signals from the cameras based on the captured FOV, determine parameters associated with position, size and velocity of objects in the FOV; and estimate a time duration for collision of the vehicle with the objects, and generate alert signals based on the determined time duration to alert the driver for immediate vehicle speed reduction.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020475 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR CLUSTERING AND/OR DETECTION OF P300

(51) International classification	:A61B0005000000, A61B0005040000, A61B0005160000, A61B0005047600, G06K0009620000	(71)Name of Applicant : 1)Dr. Mandeep Kaur Address of Applicant :Department of Computer Science & Engineering, School of Engineering & Technology, Plot No. 32, 34, Knowledge Park III, Greater Noida, Uttar Pradesh 201310 Uttar Pradesh India 2)Prof (Dr.) Parmanand 3)Prof (Dr.) Nitin Rakesh 4)Dr. Ritika Wason 5)Dr. Ali Imam Abidi 6)Ms. Rani Astya
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Mandeep Kaur 2)Prof (Dr.) Parmanand 3)Prof (Dr.) Nitin Rakesh 4)Dr. Ritika Wason 5)Dr. Ali Imam Abidi 6)Ms. Rani Astya
(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 relates to system and method to recognize and classify P300 signals for brain-computer interface (BCI) speller. The system comprising: load EEG data sets to be processed by filter, filtered data is further processed by coherence averaging, independent component analysis, principal component analysis, wavelet filtering and applying seeded K-Means semi-supervised clustering on the obtained features.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020476 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD TO CONTROL DEVICES THROUGH MENTAL ACTIVITIES

(51) International classification	:A61B0005000000, A61B0005047600, A61B0005040000, A61B0005047800, A61B0005160000	(71)Name of Applicant : 1)Supriya Khaitan Address of Applicant :School of Computing Science and Engineering, Galgotias University, Plot 2, Sector 17-A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh Pin-201306 Uttar Pradesh India 2)Dr. Mandeep Kaur 3)Dr. Ritika Wason 4)Dr. Mayank Goel 5)Dr. Kavita Saini 6)Dr. Shreddha Sagar 7)Dr Rajesh Kumar Dhanaraj
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Supriya Khaitan 2)Dr. Mandeep Kaur 3)Dr. Ritika Wason 4)Dr. Mayank Goel 5)Dr. Kavita Saini 6)Dr. Shreddha Sagar 7)Dr Rajesh Kumar Dhanaraj
(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 relates to a system to control one or more devices through one or more mental activities. The system comprises: EEG signal acquisition engine to acquire EEG signals, EEG signal processing engine to process EEG signals, feature extraction engine to extract features according to intended application, from the acquired EEG signals; and EEG signal to translate the EEG signals into commands.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020521 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : FUSED MATERIAL DEPOSITION SYSTEM FOR PRODUCING RAPID PATTERNS

(51) International classification	:B29C0064106000, B33Y0010000000, B33Y0030000000, B22D0011060000, B33Y0080000000	(71)Name of Applicant : 1)Er. PushendraYadav Address of Applicant :Faculty of Engineering, Dayalbagh Educational Institute, Dayalbagh Agra Uttar Pradesh India Uttar Pradesh India 2)Saurabh Bhardwaj 3)Shivam Gautam 4)Dr. Ankit Sahai 5)Dr Rahul Swarup Sharma
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Er. PushendraYadav 2)Saurabh Bhardwaj 3)Shivam Gautam 4)Dr. Ankit Sahai 5)Dr Rahul Swarup 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 :

Fused material deposition system for producing rapid patterns is equipped with heat bed of dimensions 500 mm 500 mm which is capable of producing fused deposition fabricated objects with print surface area of 250000 mm and print volume of 125000000 mm . This will eliminate the complications of fabricating large sized products in a single go which is not possible using small scale fused deposition fabricators as they offer a tiny print space. It provides high fabrication speed of about 150 mm per second thus offering reduced fabrication time resulting in increased production rates and large volume production in a single go. It also tackles the problem of vibrations which is faced in lager fabricators by using grill rods for mounting extruder. This invention tends to make large scale fused deposition fabrication an economically feasible and an environmentally greener task.

No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : GREEN CORRIDOR FOR EMERGENCY VEHICLES

(51) International classification	:G08G0001096500, G08G0001087000, G08G0001095000, A61G0003000000, G08G0001080000	(71)Name of Applicant : 1)YASH PANDEY Address of Applicant :B. TECH, CSE, 3RD YEAR, GRAPHIC ERA DEEMED TO BE UNIVERSITY, BELL ROAD, CLEMENTON, DEHRADUN-248002, UK, INDIA. E-mail: yashpandey22@gmail.com Uttarakhand India 2)NANCY SINGH 3)SHEETAL MEHTA 4)VRINCE VIMAL (Ph.D. ,ASSOCIATE PROFESSOR) 5)BHAVESH PANDEY (Ph.D.) 6)BHANU CHAMOLI
(31) Priority Document No	:NA	(72)Name of Inventor : 1)YASH PANDEY 2)NANCY SINGH 3)SHEETAL MEHTA 4)VRINCE VIMAL (Ph.D. ,ASSOCIATE PROFESSOR) 5)BHAVESH PANDEY (Ph.D.) 6)BHANU CHAMOLI
(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 :

AGREEN CORRIDOR FOR EMERGENCY VEHICLES is proposed to overcome the problem of the long queue of vehicles which in turn contributing towards several problems including pollution and congestion. Due to congestion in the roads, emergency vehicles also face delay in providing the services putting several lives in danger. In this invention, a smart traffic management system is proposed, using the Internet of things(IoT), to create a green corridor for emergency vehicles at the time of severe congestion in the roads. A green corridor can be defined as a sequence of green signals for designated emergency vehicles from the source to the destination. To create this Green Corridor, IoT based RFID transmitter/receivers are proposed to be placed at traffic junctions to identify a different kind of vehicles and help in providing an open passage to emergency vehicles. As per this invention, two RFID transmitter/receivers are proposed to be installed before the crossing. The location of the RFID transmitter/receivers is proposed to be at 30 m and 10 m from the crossing. The two sensors would help in providing sufficient redundancy for the system. In addition to this, one RFID transmitter/receiver is proposed to be placed after the crossing, which will help in identifying that the vehicle has moved away from the crossing, and hence the traffic can move normally. As the emergency vehicle crosses the first RFID before the crossing, the traffic signal will get overridden and turn green. In csase the first RFID fails to detect the vehicle, then the second RFID will override the signal. As soon as the ambulance will cross the signal the RFID after the junction the traffic lights would be overridden again and the traffic flow will become normal and after this, a timestamp would be sent to the next signal that an ambulance is approaching and it will automatically turn green as it reaches, and the process will repeat till the ambulance reaches the hospital.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020581 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ECO-FRIENDLY MARIGOLD SEED NOTEBOOK

(51) International classification	:A01H0005020000, D21C0005020000, C07C0403240000, D21B0001320000, C10M0177000000	(71)Name of Applicant : 1)GraphicEra Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement town Dehradun-248002, Uttrakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. VIJAY KUMAR
(33) Name of priority country	:NA	2)Dr. SHIPRA GUPTA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses an ecofriendly notebook making process with a seed of marigold plant for recycling waste paper and germinating new plants, said process comprising: storing a waste paper material from a plurality of sources into a paper scrap yard, wherein said waste paper material is stored in a large amount;preparing a pulp of said waste paper material thorough a plurality of filtration, wherein said plurality of filtration comprises at least one of screening, des-lagging, flotation, washing, dispersion, or bleaching;making a thin handmade paper of said pulp in notebook size, where bonding between the molecules of said pulp is made strong by applying pressure on said thin handmade papers;storing a dried petal of the marigold flower by harvesting marigold plant, wherein said marigold flower is dried in the sunlight; anddoping said dried petals on said thin handmade papers for preparing each of cover page and last page of said ecofriendly notebook; wherein said ecofriendly notebook, after use, germinates new plant of marigold when thrown back to the surface of earth.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020603 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : LIGHT WEIGHT PORTABLE HELMET FOR THE PROTECTION FROM COVID-19

(51) International classification	:A42B0003040000, A62B0018040000, A42B0003280000, B01D0039160000, A42B0003100000	(71)Name of Applicant : 1)Hitesh Singh Address of Applicant :Noida Institute of Engineering and Technology. 19, Knowledge Park- II, Institutional Area, Greater Noida (UP) - 201306 India Uttar Pradesh India
(31) Priority Document No	:NA	2)Vivek Kumar
(32) Priority Date	:NA	3)Kumud Saxena
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Hitesh Singh
Filing Date	:NA	2)Vivek Kumar
(87) International Publication No	: NA	3)Kumud Saxena
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a lightweight portable helmet capable of reducing the transmission capability of Covid19 and providing protection and of entire head viz hair, face, eyes, nose, mouth, ears, head, & upper body including neck and shoulders against COVID19 which is easily mountable on the head and is light weight. The front cover of the helmet is fitted with air filtration opening protected by an air filtration medium and the air filtration medium comprises of three layers of cloth and is replaceable. The helmet is capable of recoding data from temperature sensors and communicating the same to the doctors/physicians to provide a real time data using IOT technology.

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

(54) Title of the invention : I-UV- LIGHT BOX: INTELLIGENT UV- LIGHT BOX/EQUIPMENT TO DISINFECT CORONA VIRUS, BACTERIA, VIRUS.

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>(71)Name of Applicant :</p> <p>1)MR. HARINDER SINGH Address of Applicant :47 PANJABI BAGH PATIALA, PUNJAB-147001, INDIA. E-mail : harinderpt11@gmail.com Punjab India</p> <p>2)MANGALMAY INSTITUTE OF ENGINEERING AND TECHNOLOGY (MR. ATUL MANGAL-CHAIRMAN)</p> <p>3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>4)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)</p> <p>(72)Name of Inventor :</p> <p>1)MR. HARINDER SINGH</p> <p>2)MANGALMAY INSTITUTE OF ENGINEERING AND TECHNOLOGY (MR. ATUL MANGAL-CHAIRMAN)</p> <p>3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>4)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)</p>
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(57) Abstract :

My Invention I-UV- Light Box is an ultraviolet (UV) light disinfection technology is provided that disinfects products such as fruits, Glossary items, kitchen equipment, on line food delivered things, and vegetables by direct exposure to ultraviolet light. The disinfecting UV light eliminates pathogens, such as corona virus, virus, molds and bacteria from the surfaces that it illuminates. The I-UV- Light Box is disinfected over its entire surface and top, bottom, side view, front view of the object. The I-UV- Light can be moved, rotated on a slider, surface, conveyor, to illuminate all of the exterior surface of the I-UV- Light Box with a disinfecting UV light source. To better respond to I-UV- Light Box of varying making material, inner surface, outer surface, height and size, the I-UV light disinfection apparatus can include an automatic all function control and operate by user mobile. You know today all Indian needed foodstuff such as fruit, vegetables, grains or nuts is treated to reduce, kill, disinfect, virus, corona virus, microbial contamination (UV-C irradiation, preferably in a (nitrogen, oxygen, argon, carbon dioxide) CO₂ Atmosphere, preferably at -2 to +6° C.) and to induce protective phytoalexins (UV-A, UV-B and UV-C irradiation) and to destroy aflatoxins (UV irradiation, primarily UV-C) also the invention has many other embodiments and can have reflector or UV-C light bulbs in various shapes ranging from circular to parabolic and can detect RNA of virus and have rotating UV-C lamps or trays, the motion of which may follow 360 or 180 degrees or like that of goniometer in x ray.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020649 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ROBOTIC APPARATUS

(51) International classification :G06F0003010000,
H04W0004700000,
H04L0029080000,
B25J0009160000,
B25J0019000000

(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

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(72)Name of Inventor :

1)RAMAN BALA

2)NAMYA KAMBOJ

3)NAMITA KAMBOJ

4)JASJIT SINGH

5)DR. DEEPAK KUMAR

6)DR. AJAY KUMAR

(57) Abstract :

Disclosed is a robotic apparatus mounted on a maneuver robot. The robotic apparatus includes an Internet of things (IoT) device, a network, a plurality of robotic arm actuators, and a solar panel. The Internet of things (IoT) device captures sensory data and to transmit to an IoT database. The network establishes a communication with the maneuver robot and to transmit the sensory data to the maneuver robot. The robotic arm actuators convert electrical energy detected over the network from a hand gesture of a user into physical motion. The solar panel energizes a battery to power the Internet of things (IoT) device and the plurality of robotic arm actuators. The most illustrative drawing: FIG. 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020691 A

(19) INDIA

(22) Date of filing of Application :16/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN ULTRA VIOLET SANITIZER FOR PPE KITS, POLICE UNIFORM AND CLOTHES

(51) International classification	:A61L0002100000, C02F0001320000, A41D0029000000, G06T0015000000, C03C0003091000	(71)Name of Applicant : 1)Vibha Chopra Address of Applicant :P.G. Department of Physics & Electronics, DAV College, Katra Sher Singh, Amritsar-143001, Punjab, India Punjab India
(31) Priority Document No	:NA	2)Nutan S. Satpute
(32) Priority Date	:NA	3)Nirupama S. Dhoble
(33) Name of priority country	:NA	4)Sanjay J Dhoble
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Vibha Chopra
(87) International Publication No	: NA	2)Nutan S. Satpute
(61) Patent of Addition to Application Number:	NA	3)Nirupama S. Dhoble
Filing Date	:NA	4)Sanjay J Dhoble
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an ultra violet sanitizer for PPE kits, police uniforms and clothes. The object of the proposed invention is to provide a sanitization unit like a cabin for sterilization of PPE kits, police uniforms, health workers, sweeper's uniforms and other clothes. The proposed unit is based upon the disinfection property of UVC rays. The invented UV exposure cabin is made of transparent fiber glass with a thin layer of anti reflecting film PET on the inner side of cabin. Box volume is approximately 2.946 m . The UV-C lamps with a radiation peak at around 254 nm for germicidal action are used. Net stands are made to place mask, gloves, goggles, head cover etc. For Police uniforms or any other clothes hangers with fixed clips are used. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the sanitization unit in 3D view.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020766 A

(19) INDIA

(22) Date of filing of Application :17/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : FRAMEWORK MODEL FOR UTILIZING ORGANIZATIONAL RESOURCE CAPABILITIES

(51) International classification	:G06Q0010060000, G06Q0010100000, G06Q0010000000, C02F0001520000, G06N0003020000	(71)Name of Applicant : 1)Sharda University in Greater Noida, Delhi NCR. Address of Applicant :Plot No. 32, 34, Knowledge Park III, Greater Noida, Uttar Pradesh 201310 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Aarti Sharma
(33) Name of priority country	:NA	2)Dr. Mridul Dharwal
(86) International Application No	:NA	3)Dr. Santoshi SenGupta
Filing Date	:NA	4)Capt. Gagan Sharma
(87) International Publication No	: NA	5)Dr. Parul Saxena
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a system for efficient management of workflow various protocols through computer software. More specifically, the invention relates a conceptual model to novel resource allocation processing based on available job resources, using the variables of job resources, personal resources, work engagement, psychological well-being, inter-personal skills, characteristics of those resources, as well as organizational commitment, etc. This can be achieved by external event management, machine learning, and various mathematical processing ensuring efficient employee management and work-flow in an organization by enabling organizational resource capabilities to be utilized effectively and efficiently.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020776 A

(19) INDIA

(22) Date of filing of Application :17/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HYBRID AUTOMATIC SANITIZER DISPENSING DEVICE WITH HUMAN BODY TEMPERATURE DETECTION AND MONITORING

(51) International classification	:G01K0013000000, A45D0044000000, A01M0031000000, G01D0021020000, A61B0005040400	(71) Name of Applicant : 1)Dr. RAVI KUMAR GOYAL Address of Applicant :Professor and Principal, School of Entrepreneurship Skills, BHARTIYA SKILL DEVELOPMENT UNIVERSITY JAIPUR, Jaipur (Rajasthan) Rajasthan India 2)Mr. K GOUTAM KUMAR PRADHAN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. RAVI KUMAR GOYAL
(33) Name of priority country	:NA	2)Mr. K GOUTAM KUMAR PRADHAN
(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 related to a hybrid automatic sanitizer dispensing device with human body temperature detection and monitoring. The hybrid automatic sanitizer dispensing device (100) comprises a body temperature sensing unit (8), an automatic hand sanitizer dispensing unit, a display unit (10), a camera unit (9), a wireless communication module (18), an alarm system (4), a power supply unit (20) and a processing unit (15). The objective of the present invention is to solve the problems in the prior art related to adequacies in technologies for automatic sanitizer dispensing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020796 A

(19) INDIA

(22) Date of filing of Application :18/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : NOVEL METHOD FOR TRANSFORMING WASTE PRINTED CIRCUIT BOARDS INTO A CONCENTRATED SECONDARY RESOURCE OF RARE EARTH ELEMENTS

(51) International classification	:C22B0007000000, B09B0003000000, B03B0009060000, H05K0003220000, B09B0005000000	(71)Name of Applicant : 1)Dr Rita Khanna Address of Applicant :1023, Sector A, Pocket B Vasant kunj, New Delhi 110070 Delhi India 2)Dr PS Mukherjee
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr Rita Khanna
(33) Name of priority country	:NA	2)Dr PS Mukherjee
(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 novel method for concentrating rare earth elements (REEs) present in waste printed circuit boards (PCBs) and e-waste into small volumes fractions using segregation and thermal processing. Investigations were carried out on a wide variety of PCBs; electronic components mounted on the boards were not removed prior to processing. Waste PCBs were powdered using hammering, pounding and crushing to particle sizes (< 1mm). Initial REE (Nd, La, Dy, Gd, Y, Ce, Pr, Sm, Tb, Eu) concentrations were determined using ICP analysis. Two steps of sequential processing were carried out on PCB powders. As step I, froth flotation separation was carried out on PCB powders using a Denver cell; segregated froth and non-froth fractions, labelled as 'A' and 'B', were collected. Average REE concentrations in fractions 'A' and 'B' were determined to be 70.7% and 29.3% respectively. As step II, these segregated powders were subjected to heat treatments at 700-1000°C for 15-60 min under inert atmosphere. Pyrolysis residues from both fractions were collected after furnace cooling. Average REE concentrations in the heat treated fractions 'A' and 'B' were determined to be 84% and 16% respectively. Normalised with respect to initial REE concentrations, % increases in REE concentrations in the heat treated fraction 'A' were found to range between 145 to 541%. These results suggest that waste electronics has the potential for transforming into a concentrated secondary resource of REEs.

No. of Pages : 34 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020924 A

(19) INDIA

(22) Date of filing of Application :18/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROCESS FOR SYNTHESIS OF ALIGNED SUPERHYDROPHOBIC (ANTI WETTING) CARBON NANOFIBER COATING AND ITS APPLICATION

(51) International classification :B82Y0030000000,
C23C0016440000,
B82Y0040000000,
C23C0016260000,
C01B0032160000

(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 :

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(72)Name of Inventor :

1)Abdul Rahim Siddiqui

2)Rita Maurya

3)Kantesh Balani

(57) Abstract :

The current invention describes the synthesis and fabrication of aligned superhydrophobic carbon nanofiber coating homogeneously decorated over the various substrates. The invention consists of selection and controlled deposition of a metal catalyst via the DC plasma sputter technique, followed by synthesis and deposition of aligned superhydrophobic carbon nanofiber through controlled chemical vapor deposition (CVD) process.

No. of Pages : 44 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020926 A

(19) INDIA

(22) Date of filing of Application :18/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A COMPOSITION FOR RELIEVING DIABETIC AND PRE-DIABETIC SYMPTOMS AND BOOSTING IMMUNITY

(51) International classification	:A61K0036185000, A61K0036480000, A61K0036590000, A61K0036270000, A61K0036420000	(71) Name of Applicant : 1)DEV SANSKRITI VISHWAVIDYALAYA Address of Applicant :Gayatrikunj - Shantikunj, Haridwar, Uttarakhand, 249411, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Viral Patel
(33) Name of priority country	:NA	2)Ruchi Singh
(86) International Application No	:NA	3)Vandana Srivastava
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 composition for relieving diabetic and pre-diabetic symptoms and boosting immunity. The composition that comprises powdered form of: fruit pulp of Aegle marmelos, whole plant of Andrographis paniculate, stem and root from Berberis aristate, root from Boerhavia diffusa, seed from Andropogon muricatus, tuber from Curcuma longa; fruit pulp from Feronia elephantum, fruit and a bark from Ficus racemose, leaf from Gymnema sylvestre, seed from Hyoscyamus Niger, root from Saussurea lappa; kernel from Mangifera indica, fruit from Momordica charantia, whole plant of Ocimum tenuiflorum, root from Picrorhiza kurrooa, stem from Pterocarpus Marsupium, seed kernel from Syzygium cumini, fruit from Terminalia chebula, stem from Tinospora cordifolia and seed from Trigonella foenum-graecum.

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020939 A

(19) INDIA

(22) Date of filing of Application :18/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HERBAL COMPOSITION FOR RELIEVING SYMPTOMS OF OBSESSIVE-COMPULSIVE DISORDER AND GENERAL MENTAL ILLNESS

(51) International classification	:A61K0036810000, A61K0036185000, A61K0036590000, A61K0036530000, A61K0036882000	(71) Name of Applicant : 1)DEV SANSKRITI VISHWAVIDYALAYA Address of Applicant :Gayatrikunj - Shantikunj, Haridwar, Uttarakhand, 249411, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Viral Patel
(33) Name of priority country	:NA	2)Vandana Srivastava
(86) International Application No	:NA	3)Ruchi 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 :

Disclosed is a herbal composition for relieving symptoms associated with Obsessive-Compulsive Disorder and general mental illness. The herbal composition comprises a plurality of herbs including: a whole plant of: Centella asiatica, Convolvulus pluricaulis, and Ocimum tenuiflorum; root from: Acorus calamus, Glycyrrhiza glabra, Nardostachys jatamansi, Saussurea lappa, and Withania somnifera; stem from Tinospora cordifolia; the tuber and root from Asparagus racemosus; bark from Betula utilis; and seed from Celastrus paniculatus, wherein each of the plurality of herbs being in a range of 4-20% w/w of the herbal composition, and wherein the herbal composition is administered to a subject in form of a herbal smoke on combustion of the herbal composition. Furthermore, disclosed is a method of preparation of the aforementioned herbal composition for relieving symptoms associated with Obsessive Compulsive Disorder and general mental illness.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020968 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A KIT FOR RNA EXTRACTION TO DETECT COVID-19 BY RT-Q PCR AND METHODS THEREOF

(51) International classification	:C12Q0001688600, F16K0037000000, C12Q0001686000, G01N0033569000, A61K0031195000	(71) Name of Applicant : 1)All India Institute of Medical Sciences (AIIMS), Jodhpur Address of Applicant :All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan 342005 INDIA Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Ravisekhar Gadepalli
(33) Name of priority country	:NA	2)Dr. Vijayalakshmi Nag
(86) International Application No	:NA	3)Prof. Sanjeev Misra
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 :

Discloses herein a kit for RNA extraction to detect COVID-19 by RT-q PCR. The present invention also relates to a Unique, Rapid and affordable COVID-19 diagnostics method which could help to limit the spread of SARS-CoV-2, potentially saving many of lives, but RNA extraction constitutes a barrier to scale-up of testing. The procedure could be especially useful for massively scaling up SARS-CoV-2 testing, as the logistics and cost of RNA purification could be unworkable in mass testing. Importantly, the direct method is also attractive in settings where repeated, cheaper, and quicker testing is desirable, for example in frequent testing of healthcare personnel. This study will help in establishment of rapid and confirmed diagnosis of COVID-19 enabling early and proper treatment and control measures. The present invention reduces the time of testing by RT-PCR from 8hrs (Conventional Method) and to 4hrs not using any Kit or RNA extractor.

No. of Pages : 15 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021013 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN EXHAUST GAS TREATMENT SYSTEM AND METHOD THEREOF

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)Alternative Innovations Private Limited Address of Applicant :H.No.182, Sector-8 Faridabad-121006, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Gyanendra Kumar Sharma
(33) Name of priority country	:NA	2)Anil Whabi
(86) International Application No	:NA	3)Ravi KantPali
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 an exhaust gas treatment system for controlling NOx emissions. The system (100) comprises an engine (10), exhaust gas recirculation (EGR) unit (11) and DeNOx unit (12). The engine (10) having an intake manifold (101) and exhaust manifold (102). The DeNOx unit (12) being connected to the exhaust manifold (102) comprises a primary DeNOx system (121). The primary DeNOx system (121) comprises a fluid dosing unit (1211) fluidically connected to the exhaust manifold (102), being configured to inject atomized fluid into the exhaust gases ejected from exhaust manifold (102). The amount of fluid injected is controlled by an ECU according to engine operating conditions. A catalyst (1212) being coupled at outlet of the fluid dosing unit (1211) to facilitate reduction in NOx content in exhaust gases. The exhaust gas treatment system utilizes fluid dosing unit to facilitate significant reduction in NOx content in exhaust gases.

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021106 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HERBAL COMPOSITION FOR RELIEVING EPILEPTIC AND OTHER SEIZURE CONDITIONS

(51) International classification	:A61K0036280000, A61K0036185000, A61K0036810000, A61K0036590000, A61K0036530000	(71) Name of Applicant : 1)DEV SANSKRITI VISHWAVIDYALAYA Address of Applicant :Gayatrikunj - Shantikunj, Haridwar, Uttarakhand, 249411, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ruchi Singh
(33) Name of priority country	:NA	2)Vandana Srivastava
(86) International Application No	:NA	3)Viral Patel
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 herbal composition for relieving epileptic and other seizure conditions. The composition comprises mixture of plurality of herbs selected from: seeds from Elettaria cardamomum, Tribulus terrestris, Brassica campestris and Piper Nigrum; whole plants of Achyranthes aspera, Centella asiatica, Convolvulus pluricaulis, Peristrophe bicalyculata, Sphaeranthus indicus, Hedichium spicatum, Ocimum sanctum and Martynia diandra; stem from Tinospora cordifolia; roots from Nardostachys jatamansi, Withania somnifera, Saussurea lappa and Boerhaavia diffusa; flower from Rosa centifolia; roots and stems from Berberis species and Calotropis gigantea; gum from Commiphora mukul, and tuber from Asparagus racemosus. The mixture is dry course powder and comprises each of plurality of herbs in an amount ranging from 4 - 20 wt % of total amount of herbal composition. The composition is combustible and is administered to subjects in form of herbal fumes on combustion thereof. Moreover, the present invention provides method for preparation of aforementioned composition.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021107 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : COMPOSITION FOR TOPICAL APPLICATION FOR TREATING PAIN AND INFLAMMATION

(51) International classification	:A61K0036906600, A61K0008970000, A61K0036896200, A61K0036480000, A61K0036230000	(71) Name of Applicant : 1)DEV SANSKRITI VISHWAVIDYALAYA Address of Applicant :Gayatrikunj - Shantikunj, Haridwar, Uttarakhand, 249411, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ruchi Singh
(33) Name of priority country	:NA	2)Vandana Srivastava
(86) International Application No	:NA	3)Viral Patel
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 composition for topical application for treating pain and inflammation, comprising an oil extracted from Brassica campestris; an extract of seeds from Trigonella foenum-graecum; a decoction of stem from Allium sativum; an extract of seeds from Trachyspermum ammi; a decoction of stem from Curcuma longa; a defined amount of Cow urine; a decoction of roots from Aconitum heterophyllum; a decoction of leaves from Nicotiana tabacum; an extract of roots from Gloriosa superba; an extract of stem from Opuntia ficus-indica; a decoction of seeds from Capsicum annuum; an oil extract from Eucalyptus globulus; an extract of roots from Acorus calamus; an oil extract from Pinus roxburghii; and an oil extract from Gaultheria procumbens.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021111 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HERBAL COMPOSITION FOR TREATING THYROID DISORDERS

(51) International classification	:A61K0036185000, A61K0036810000, A61K0036480000, A61K0036530000, A61K0036590000	(71) Name of Applicant : 1)DEV SANSKRITI VISHWAVIDYALAYA Address of Applicant :Gayatrikunj - Shantikunj, Haridwar, Uttarakhand, 249411, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ruchi Singh
(33) Name of priority country	:NA	2)Vandana Srivastava
(86) International Application No	:NA	3)Viral Patel
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 herbal composition for treating thyroid disorders. The composition comprises mixture of plurality of herbs selected from: a bark from Bauhinia variegata, a whole plant of Tephrosia purpurea, a stem from Tinospora cardifolia, a root from Boerhaavia diffusa, a bark from Clerodendrum indicum, a whole plant of Hemidesmus indicus, a whole plant of Asparagus racemosus, a root from Withania somnifera, a bark from Myrica nagi, a bark from Crataeva nurvala, a bark from Terminalia arjuna, and a whole plant of Ocimum tenuiflorum. The mixture is dry course powder. Moreover, the present invention provides method for preparation of aforementioned composition, and administering the herbal composition to a subject for treating thyroid disorders.

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : PHARMACEUTICALLY EFFECTIVE HERBAL COMPOSITION FOR USE IN CANCER DISEASE THERAPY

(51) International classification	:A61K0036185000, A61K0036480000, A61K0036810000, A61K0036280000, A61K0036590000	(71) Name of Applicant : 1)DEV SANSKRITI VISHWAVIDYALAYA Address of Applicant :Gayatrikunj - Shantikunj, Haridwar, Uttarakhand, 249411, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Viral Patel
(33) Name of priority country	:NA	2)Vandana Srivastava
(86) International Application No	:NA	3)Ruchi 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 :

Disclosed is a pharmaceutically effective herbal composition for use in cancer disease therapy. The herbal composition comprises Cassia fistula, Withania somnifera, Bauhinia variegata, Acacia catechu, Tinospora cordifolia, Balsamodendron mukul, Sphaeranthus indicus, Cassia tora, Plumbago zeylanica, Taxus baccata, Ocimum sanctum, Berberis species, Cinnamomum zeylanicum, Fagonia arabica, Azadirachta indica, Caesalpinia sappan, Cissampelos pareira, Boerhaavia diffusa, Aglaia roxburghiana, Clerodendrum serratum, Solanum nigrum, Glycyrrhiza glabra, Rheum emodi, Symplocos racemosa, Ficus bengalensis, Viola odorata, Crataeva nurvala, Tephrosia purpurea, Shorea robusta, Boswellia serrata, Moringa pterygosperma, Argemone mexicana, Terminalia chebula, Clitoria ternatea, Operculina turpethum, Pinus longifolia, Catharanthus roseus, Saraca indica, Tribulus terrestris, Aloe barbadensis, Saussurea lappa var. Bitter, Ficus religiosa, Saussurea lappa var. Sweet, Zingiber officinale, Pterocarpus santalinus, Cressa cretica, and Alstonia scholaris, wherein each of plurality of herbs is in range of 1-20% w/w of herbal composition, and wherein herbal composition is administered to subject in form of herbal smoke on combustion of herbal composition.

No. of Pages : 31 No. of Claims : 9

(54) Title of the invention : IMPROVE THE PERFORMANCE FOR SPEED CONTROL OF SEDM USING OF INTELLIGENT PI CONTROLLER

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06N0003080000, H02M0005458000, G05B0011420000, G06N0003040000, G05B0013020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)AMIT KUMAR SINGH (ASST. PROFESSOR) Address of Applicant :RAMA UNIVERSITY KANPUR, UP-209217, INDIA. E-Mail: er.amit0007@gmail.com Uttar Pradesh India</p> <p>2)DR. HARI OM SHARAN (DEAN -FACULTY OF ENGINEERING AND TECHNOLOGY)</p> <p>3)DILEEP KUMAR (ASST. PROFESSOR)</p> <p>4)RAGHVENDRA SINGH (ASST. PROFESSOR)</p> <p>5)SAMIR KUMAR MISHRA (ASST. DIRECTOR (R&D))</p> <p>(72)Name of Inventor :</p> <p>1)AMIT KUMAR SINGH (ASST. PROFESSOR)</p> <p>2)DR. HARI OM SHARAN (DEAN -FACULTY OF ENGINEERING AND TECHNOLOGY)</p> <p>3)DILEEP KUMAR (ASST. PROFESSOR)</p> <p>4)RAGHVENDRA SINGH (ASST. PROFESSOR)</p> <p>5)SAMIR KUMAR MISHRA (ASST. DIRECTOR (R&D))</p>
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(57) Abstract :

The separately excited direct current (DC) motors with a conventional proportional - integral (PI) speed controller are used extensively in industry. This conventional controller can be easily implemented and are found to be highly effective if load changes are small however, in certain applications, e.g., rolling mill drives certain applications, e.g., rolling mill drives or machine tools, the drive operates under a wide range of changing load characteristics and the system parameters vary substantially. A conventional PI or PID controller is not preferable in these applications. The development of artificial Neural Network controller for D.C drives in the present works is inspired by the ANN control strategy as reported in literature. Broadly, two control strategies with ANN are proposed for separately excited D.C. motor, current control and speed control strategy. This thesis introduces the new ability of ANNs in estimating speed and controlling the separately excited D.C. motor, The neural control scheme consist of neural controller, which is used to generate a control signal for converter. ANN has different size of hidden layers according to different control strategies withtrainlm" training function.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021305 A

(19) INDIA

(22) Date of filing of Application :20/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A CONVOLUTION OPERATOR SYSTEM TO PERFORM CONCURRENT CONVOLUTION OPERATIONS

(51) International classification	:G06F0017150000, G06N0003040000, G06K0009620000, G06K0009460000, G06T0001200000	(71) Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BALASUBRAMANIYAN, Prasanna Venkatesh
(33) Name of priority country	:NA	2)GOPALAKRISHNAN, Sainarayanan
(86) International Application No	:NA	3)RAJAGOPAL, Gunamani
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 convolution operator system (102) comprising a Convolution Neural Network (CNN) reconfigurable engine (200) including a plurality of Mini Parallel Rolling Engines (MPREs) (202) for performing a convolution operation concurrently on an image. An input router (304) receives image data. A controller (308) allocates image data to computing blocks (306) through a set of data flow control blocks (305). Each computing block produces a convolution output corresponding to each row of the image. The controller (308) allocates a plurality of group having one or more computing blocks to generate a set of convolution output. Further, a pipeline adder (310) aggregates the set of convolution output to produce an aggregated convolution output. An output router (312) transmits either the convolution output or the aggregated convolution output for performing subsequent convolution operation to generate a convolution result for the image data.

No. of Pages : 25 No. of Claims : 13

(54) Title of the invention : VIRUS DETECTION KIT: KIT FOR TESTING CORONA VIRUS AND DISPLAY REAL TIME LOCATION USING IOT.

(51) International classification	:A61B0005000000, A61B0005010000, A61B0005145000, A61K0039120000, C07K0014005000	(71)Name of Applicant : 1)DR. HARI OM SHARAN (DEAN -FACULTY OF ENGINEERING AND TECHNOLOGY) Address of Applicant :RAMA UNIVERSITY KANPUR, UP-209217, INDIA. E-mail: drsharan.hariom@gmail.com Uttar Pradesh India 2)PROF.(DR.) BIPLAB KUMAR SARKAR (FOUNDER-GEH RESEARCH)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. HARI OM SHARAN (DEAN -FACULTY OF ENGINEERING AND TECHNOLOGY) 2)PROF.(DR.) BIPLAB KUMAR SARKAR (FOUNDER-GEH RESEARCH)
(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 Invention "Virus Detection Kit" is the physical and chemical parameters include body temperature function, Eye color function, breathing cold air function, brain function, metabolic function, hydrodynamic function, hydration status, levels of chemical compounds in the blood accordingly detect the coronavirus detect and information share at global data base using IoT technology. The Virus Detection Kit provides a set of sensing systems in combination, which are designed to access a physiologic tunnel to measure biological, physical and chemical parameters. The invention is an anatomic path which conveys undisturbed physiologic signals to the exterior. The tunnel consists of a direct and undisturbed connection between the source of the function (signal) within the body and an external point at the end of the tunnel located on the skin. The invention to detect is a newly isolated human coronavirus (SARS-CoV), the causative agent of severe acute respiratory syndrome (SARS). The invention gives the nucleic acid sequence of the corona virus and the amino acid sequences of the corona virus open writing reading advanced frames, as well as technology to detect a SARS-CoV, infections. Immune stimulatory compositions are also provided, along with methods of their use.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : AN APPARATUS AND METHOD WITH IOT TO DETECT AND CONTROL TEMPERATURE CHANGE SIMULATION CASE

<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>:G01K0007000000, H03K0017080000, G01K0001020000, H02M0007538700, G01R0031400000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. RASHMI BHARDWAJ Address of Applicant :D/o. SH RAM KISHOR GUPTA, PROFESSOR OF MATHEMATICS, ROOM NO. B 504, HEAD, NON-LINEAR DYNAMICS RESEARCH LAB, UNIVERSITY SCHOOL OF BASIC & APPLIED SCIENCES, GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, SECTOR 16C, DWARKA, NEW DELHI 110078, INDIA Delhi India</p> <p>2)DR. DEBABRATA DATTA</p> <p>3)RAJAT BHARDWAJ</p> <p>4)SHIVAM BHARDWAJ</p> <p>(72)Name of Inventor :</p> <p>1)DR. RASHMI BHARDWAJ</p> <p>2)DR. DEBABRATA DATTA</p> <p>3)RAJAT BHARDWAJ</p> <p>4)SHIVAM BHARDWAJ</p> <p>5)MOHAMMED ALSHEHRI</p> <p>6)SUNIL KUMAR SHARMA</p>
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(57) Abstract :

Currently, the Internet of Things concept has playing a major and professional role, but has not been familiar to the public, the previous few years, mobile Internet and smart combination of hardware development, and slowly opened the prelude to the development of things matter. A temperature detecting apparatus includes a temperature detecting circuit configured to output a first pulse signal according to a temperature detected by a temperature sensor, and an insulating transformer configured to transmit the first pulse signal to an integrated circuit which is operated by an operation voltage different from that of the temperature detecting circuit. The insulating transformer is installed between the temperature detecting circuit and the integrated circuit. The temperature detecting circuit and the insulating transformer are mounted on a common substrate.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021424 A

(19) INDIA

(22) Date of filing of Application :21/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN ELECTRIC ENERGY REGENERATIVE SILENCER JACKET AND ARRANGEMENT

(51) International classification	:H01L0035300000, H01L0035320000, H01M0008180000, H01L0035000000, H05B0003260000	(71) Name of Applicant : 1)GRAPHIC ERA (DEEMED TO BE UNIVERSITY) Address of Applicant :566/6, Bell Road, Clement Town, Dehradun €“ 248002, Uttarakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)AVI RAJ SINGH MANRAL
(33) Name of priority country	:NA	2)NARENDRA GARIYA
(86) International Application No	:NA	3)MS. JYOTI JOSHI
Filing Date	:NA	4)PUSHPENDRA 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 energy regenerative silencer jacket and arrangement. The electric energy regenerative silencer jacket for collecting waste heat energy from an exhaust tunnel and converting heat energy into electric energy comprise of an inner conducting metallic plate which is attach to the exhaust tunnel. A storage unit which store generated electricity in an array of semiconductor heat to electricity conversion module of the present invention. The arrays of semiconductor heat to electricity conversion module are placed across the inner conducting metallic plate. An outer conducting metallic plate is placed across the array of semiconductor heat to electricity conversion module. The array of semiconductor heat to electricity conversion module further comprise of plurality of semiconductor diode and an alternating current (AC) to direct current (DC) converter which is connected to the output of the plurality of semiconductor diode.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021439 A

(19) INDIA

(22) Date of filing of Application :21/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : INTEGRATED HELMET LOCKING SYSTEM

(51) International classification	:E05B0027000000, A42B0003040000, E05B0035000000, A61F0002800000, B60R0025200000	(71) Name of Applicant : 1)GRAPHIC ERA (DEEMED TO BE UNIVERSITY) Address of Applicant :566/6, Bell Road, Clement Town, Uttarakhand, Dehradun Pin 248002, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANUJ RATURI
(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 invention discloses an integrated helmet locking system to lock an open or closed face helmet with two-wheeler seat handle. Invention ensures correct positioning of helmet locking, so that; inside contamination of helmet by surrounding dust can be prevented. Invention also provides a scratch free quick-locking and unlocking system for open/closed face helmet. Present invention comprising: a plug & lock unit (1), a socket system (2), and an integrated lock (4). The plug & lock unit (1) further comprises two hooked plugs (IL) & (IR), plungers (3L) & (3R), a shaft (3), a main spring (IS), a plurality of springs (3S), an upper casing (5A), and a lower casing (5B). Moreover, plug & lock unit (1) fitted on casing (5B) and covered by casing (5A), and wherein upper and lower casing having plurality of interlocking mechanism (5F) & (5M) for interlocking upper and lower casing. The socket system (2) further comprises of two sockets (2L) & (2R), and a helmet (2H). The integrated lock (4) further comprises of a key channel rod (41), a torsion spring (4S), a plurality of clips (4C), a mini bar (4T), a key (4K), and lock casing (4A).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021495 A

(19) INDIA

(22) Date of filing of Application :21/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : TRACHEOSTOMY TUBE

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)ALL INDIA INSTITUTE OF MEDICAL SCIENCES JODHPUR Address of Applicant :All India Institute of Medical Sciences, Basni Phase-II, Jodhpur, Rajasthan 342005, India Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GOYAL, Amit
(33) Name of priority country	:NA	2)DIXIT, Abhinav
(86) International Application No	:NA	3)DIXIT, Shilpi Gupta
Filing Date	:NA	4)GOYAL, Shilpa
(87) International Publication No	: NA	5)SHARMA, Vidhu
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Examples of a tracheostomy tube (100) are described. In one example, the tracheostomy tube (100) has a tubular body (102) having a first end (102a), which is insertable into a tracheostomy stoma of a patient and a second end (102b) the tracheostomy tube is connectable to an external medical device. A covering element (110) is disposed on an external surface of the tubular body (102) in proximity of the first end (102a). The covering element (110) is formed as a cup-shaped flap made of a pliable material agreeable with human tissue. [[To be published with FIG. 1]]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021708 A

(19) INDIA

(22) Date of filing of Application :23/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ON-DEMAND-ON-SITE EARTHQUAKE EARLY WARNING SYSTEM

(51) International classification	:G01V0001000000, G08B0021100000, G01S0007000000, G08B0025100000, G08B0027000000	(71)Name of Applicant : 1)MR. BHANU PRATAP CHAMOLI Address of Applicant :THE CENTRE OF EXCELLENCE IN DISASTER MITIGATION AND MANAGEMENT, INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE, ROORKEE - 247667, UK, INDIA. E-Mail: bhanuchamoli@gmail.com Uttarakhand India
(31) Priority Document No	:NA	2)MR. BHAVESH PANDEY(PhD)
(32) Priority Date	:NA	3)PROF. ASHOK KUMAR
(33) Name of priority country	:NA	4)PROF. AJAY GAIROLA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MR. BHANU PRATAP CHAMOLI
(87) International Publication No	: NA	2)MR. BHAVESH PANDEY(PhD)
(61) Patent of Addition to Application	:NA	3)PROF. ASHOK KUMAR
Number	:NA	4)PROF. AJAY GAIROLA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

My Invention "BOTTLE DIVIDING WALL" is a technology of making various colour bottle assembly is presented including constructing a body portion having a single dividing wall extending therein and constructing a first chamber for holding a first liquid. The technology also includes constructing a second chamber for holding a second liquid. In this technology to reduce the plastic waste arising out of throwing out of sachets/bottle which only contain shampoo or oil or soap to Similarly sachets of sauce may also contain two different sauces in two different compartments and have two openings on top for release of each sauce and/or one opening at the bottom for another sauce. Similarly, sachets may be used for mixing of two liquids by removal of dividing wall in between at the user end. SO in his case the design consists of disposable dividing wall or wall made of such films which are biodegradable in the liquids itself or made of edible material in case the liquids are edible. The hypothetical device can be used for slow diffusion of some antioxidants, aroma or flavour compound from one compartment to another through semipermeable membrane to another if such applications can be found from food technology applications.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021776 A

(19) INDIA

(22) Date of filing of Application :23/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM FOR REMOVING PARTICULATES FROM GAS STREAMS

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)Sangeeta Verma Address of Applicant :C-1136, Gaur Green Avenue, Abhay Khand II, Indirapuram 201014, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sangeeta Verma
(33) Name of priority country	:NA	2)Rajesh Verma
(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 (100) for removing particulates from gas streams of spent wash fired incinerators, power plant and other process industries. The system(100) includes inlet and outlet plenum (102,104) to receive and release the gas streams. Further, the system(100) includes first and second filter arrangements(110,120) and a barrier arrangement(170). The first filter arrangement(110) is disposed upstream of the inlet plenum(102) to horizontally receive the gas streams from the inlet plenum(102) in a lengthwise direction. The second filter arrangement(140) is disposed upstream of the first filter arrangement(110) to vertically receive the gas streams from the first filter arrangement(110). The second filter arrangement(140) is disposed in a width wise direction, intersecting to the lengthwise direction. The barrier arrangement(170) is disposed adjacent to the second filter arrangement(140) to blockade the horizontally moving gas streams and redirect thereto to as the vertically moving gas streams to be received by the second filter arrangement(140).

No. of Pages : 32 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021801 A

(19) INDIA

(22) Date of filing of Application :25/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HOT FOODS[€]™ SPILLAGE PROTECTOR

(51) International classification	:G07F0017000000, C08L0023080000, B65D0033010000, A47J0047140000, B65D0033080000	(71) Name of Applicant : 1)NEHA GOYAL Address of Applicant :D1032, 5th Avenue, Gaur City 1, Noida Extension, Greater Noida (W), Noida-201009, Uttar Pradesh Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)CHITRESH KANSAL
(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 embodiment discloses an embodiment herein provides a hot food(s) spillage protector 100 which protects hands of the person(s) carrying the hot food from spillage of hot food thereon. The protector 100 includes a roofless enclosure 102 defined by a door 102A, an extensible base 102B, and three actuating walls 102C. The enclosure 102 may surround a container 108 or a cup containing the hot fluid.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021803 A

(19) INDIA

(22) Date of filing of Application :25/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : NOVEL COMPOSITIONS OF EZETIMIBE AND ATORVASTATIN

(51) International classification :A61K0009200000,
A61K0031397000,
A61K0031400000,
C07D0205080000,
A61K0031167000

(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 :
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Address of Applicant :Village Jawaharpur Derabassi - -140507
Punjab, India Punjab India
2)ALFRED E. TIEFENBACHER (GmbH & Co. KG)

(72)Name of Inventor :
1)Paharia, Amol
2)Sharma, Rahul
3)Schneider, Jennifer
4)Fitzner, Ansgar

(57) Abstract :

The present invention relates to a composition comprising ezetimibe and atorvastatin calcium. In particular, the present invention provides an immediate release bilayer tablet comprising one layer of atorvastatin calcium and other layer of ezetimibe and method for the preparation thereof, wherein ezetimibe is dispersed in binder solution comprises of binder and solubilizing agent.

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

(54) Title of the invention : MOBILE APP DEVELOPMENT: HIGHLY-CUSTOMIZABLE CROSS-PLATFORM MOBILE APP DEVELOPMENT USING AI PROGRAMMING.

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0008300000, G06F0008360000, G06F0008710000, G06F0008380000, G06F0008200000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. ANAND PANDEY Address of Applicant :SRM INSTITUTE OF SCIENCE & TECHNOLOGY, DELHI-NCR CAMPUS, MODINAGAR, GHAZIABAD-201204, UP, INDIA. E-Mail: anandpandey29@yahoo.co.in E-Mail: anandp@srmist.edu.in Uttar Pradesh India</p> <p>2)DR. PANKAJ SINGH</p> <p>3)MEHABOOB MUJAWAR (ASSISTANT PROFESSOR)</p> <p>4)DR. PANKAJ SHAH (PRINCIPAL)</p> <p>5)MR. ATUL MANGAL (CHAIRMAN)</p> <p>6)DR. VRUSHSEN PURUSHOTTAM PAWAR</p> <p>(72)Name of Inventor :</p> <p>1)DR. ANAND PANDEY</p> <p>2)DR. PANKAJ SINGH</p> <p>3)MEHABOOB MUJAWAR (ASSISTANT PROFESSOR)</p> <p>4)DR. PANKAJ SHAH (PRINCIPAL)</p> <p>5)MR. ATUL MANGAL (CHAIRMAN)</p> <p>6)DR. VRUSHSEN PURUSHOTTAM PAWAR</p>
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(57) Abstract :

The Invention Mobile App Development is a Systems and process for developing, customizing, unique and deploying mobile device app, applications are provided through a mobile application development and deployment advanced platform. The invented systems and process are implemented in an IoT and Internet based environment that allows non-technical users to build sophisticated, highly-customizable cross-platform mobile applications. The invented platform allows users to select, input, delete, create, edit, share, fetch, customize, and combine various data set, design characteristics, and application components, such as modules, some of which utilize advanced features and logical functionality associated with various mobile devices and mobile (OS) operating systems (Android OS, BlackBerry OS, iPhone OS, PalmOS, MeeGo OS etc.). The invented platform allows users to execute, run, compile, code and generate a configuration file for, the mobile application that can be distributed to end users for execution on various mobile devices and mobile operating systems. When the mobile application is installed on, or executed by the mobile device, the configuration file may enable the retrieval of various data associated with the invented mobile application.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011021969 A

(19) INDIA

(22) Date of filing of Application :26/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR PREDICTING AN INFECTIOUS DISEASE TRANSMITTED BY A VIRULENT RESPIRATORY VIRUS

(51) International classification	:H04L0029080000, G06F0009500000, A61B0005020500, G06F0016220000, H04W0040020000	(71)Name of Applicant : 1)Dr. Naveen Tewari Address of Applicant :Associate Professor, School of Computing, Graphic Era Hill University, Bhimtal Campus, Uttarakhand India Pin 263156 Uttarakhand India
(31) Priority Document No	:NA	2)Dr. Mukesh Joshi
(32) Priority Date	:NA	3)Dr. Rajeev Kumar
(33) Name of priority country	:NA	4)Dr. Gopal Datt
(86) International Application No	:NA	5)Dr. Sandeep Kumar Budhani
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Naveen Tewari
(61) Patent of Addition to Application Number	:NA	2)Dr. Mukesh Joshi
Filing Date	:NA	3)Dr. Rajeev Kumar
(62) Divisional to Application Number	:NA	4)Dr. Gopal Datt
Filing Date	:NA	5)Dr. Sandeep Kumar Budhani

(57) Abstract :

Disclosed are a system (100) and method for predicting an infectious disease transmitted by a virulent respiratory virus. The system (100) includes a plurality of Internet of Things (IoT) sensors (102), a plurality of fog node devices (104), and a plurality of computing devices (106) and a plurality of cloud data centers (108). The IoT sensors (102) are configured to be coupled to a plurality of human beings to generate a health dataset. The fog node devices (104) are associated with a fog layer to receive the health dataset from the IoT sensors (102) to process and to store the health dataset over a blockchain network. The fog node devices (104) process the health dataset at the fog layer by performing a fog computing. The computing devices (106) and cloud data centers (108) receive the processed health dataset from the plurality of fog node devices (104) over the blockchain network. The most illustrative drawing:

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022086 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A NEW APPROACH FOR ESTIMATION OF EIGEN VALUE AND EIGEN VECTOR

<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>:G06K0009620000, G03F0001360000, G03F0007200000, C07D0249120000, A61B0005020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. ANAND TYAGI (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES, AJAY KUMAR GARG ENGINEERING COLLEGE 27TH STONE, NH-24, DELHI HAPUR BYPASS ROAD, ADHYATMIK NAGAR, GHAZIABAD-201009, UP, INDIA E-mail: dranandyagi@gmail.com Uttar Pradesh India</p> <p>2)DR. SANJAY SHARMA (ASSISTANT PROFESSOR)</p> <p>3)DR. SANJAY KUMAR TIWARI (ASSISTANT PROFESSOR)</p> <p>4)DR. VIPIN KUMAR (ASSOCIATE PROFESSOR)</p> <p>5)DR. VINEET SRIVASTAVA (ASSISTANT PROFESSOR & DEAN ACADEMICS)</p> <p>6)DR. SACHIN KUMAR (ASSOCIATE PROFESSOR)</p> <p>7)DR. DEEPTI GOEL (ASSISTANT PROFESSOR)</p> <p>(72)Name of Inventor :</p> <p>1)DR. ANAND TYAGI (ASSISTANT PROFESSOR)</p> <p>2)DR. SANJAY SHARMA (ASSISTANT PROFESSOR)</p> <p>3)DR. SANJAY KUMAR TIWARI (ASSISTANT PROFESSOR)</p> <p>4)DR. VIPIN KUMAR (ASSOCIATE PROFESSOR)</p> <p>5)DR. VINEET SRIVASTAVA (ASSISTANT PROFESSOR & DEAN ACADEMICS)</p> <p>6)DR. SACHIN KUMAR (ASSOCIATE PROFESSOR)</p> <p>7)DR. DEEPTI GOEL (ASSISTANT PROFESSOR)</p>
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(57) Abstract :

My Invention "A NEW APPROACH FOR ESTIMATION OF EIGEN VALUE AND EIGEN VECTOR" we develop a new approach to estimation of characteristic equations, Eigen value & associated Eigen vector in minimum time. This invention helps us to save time and gives appropriate result. Eigen value play very important role in our emerging technology. To obtain Eigen value by this method is far better and much reliable in comparison with other methods. In the end of the paper, application of Eigen values & Eigen vectors and role of spectral radii, are explained briefly.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022091 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART MOPPING FOR BLIND ZONE

(51) International classification :H04N0005232000,
A47L0013200000,
G08G0001160000,
A47L0013240000,
H04N0007180000

(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 :

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2)Dr. Vivek Jaglan

3)Dr. Surjeet Dalal

4)Dr. Neeraj Dahiya

5)Dr. Ajay Sharma

6)Dr. Sanjay Kumar

(72)Name of Inventor :

1)Dr. Surjeet Dalal

2)Prof. (Dr.) Ajay Kumar

3)Dr. Vivek Jaglan

4)Dr. Neeraj Dahiya

5)Dr. Ajay Sharma

6)Dr. Sanjay Kumar

(57) Abstract :

Described herein could also be a sensible mopping system for the blind zone. The system includes Mop with a flexible length stick, equipped with a video camera and touch light and controlled by Android mobile application. The working and movements of the mop are controlled by the interpretation of the data captured by the video camera. The data could even be a scalar and visual format. The torch support to determine the dark spots for dark zones. Wireless Rechargeable Battery Powered WiFi Camera is attached with a stick that's built with a 1080P HD camera that provides clear and crisp recordings which can be watched remotely in real-time through the mobile app cloud age. It maintains a 130 Degree Wide angle of view. This rechargeable camera comes with a 6000mAh battery that lasts up to 2 - 5 months when fully charged so as that you simply do not have to stress about continuously charging it and it minimizes water consumption and do better cleaning and also powerfully remove all stains and also it's memories and doesn't sweep randomly it can intelligently recognize which place it's swept and simply move under bed or furniture thus reducing cleaning omission.

No. of Pages : 18 No. of Claims : 8

(54) Title of the invention : VITRO: VIRTUAL TRIAL ROOM

<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>:G06K0009620000, G06Q0030060000, A61B0005020000, G06F0016583000, A41H0001020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Madhushi Verma Address of Applicant :Assistant Professor, Department of Computer Science Engineering, Bennett University, Greater Noida -201310, Uttar Pradesh, India Uttar Pradesh India</p> <p>2)Dr. Sunil Kumar Jangir</p> <p>3)Dr. Manish Kumar</p> <p>4)Dr. Dinesh Goyal</p> <p>5)Dr. Justin Joseph</p> <p>6)Dr. Bhavna Sharma</p> <p>7)Keshav Jangid</p> <p>8)Dr. S.Balamurugan</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Madhushi Verma</p> <p>2)Dr. Sunil Kumar Jangir</p> <p>3)Dr. Manish Kumar</p> <p>4)Dr. Dinesh Goyal</p> <p>5)Dr. Justin Joseph</p> <p>6)Dr. Bhavna Sharma</p> <p>7)Keshav Jangid</p> <p>8)Dr. S.Balamurugan</p>
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(57) Abstract :

With the advancement of technology, most of the people prefer to perform online shopping. Offline shopping is not preferred by a larger mass for another important reason i.e. wastage of time in performing the trial of the apparels and wait in long queues for the same. Here, we present a virtual trial room, which is a model that indicates whether apparel fits the body of a person, or not. Initially, the 2D joints are determined using an image of the person, which is used to build the Skinned Multi-Person Linear model. Then, the estimate of the perfect fit is determined using Convolutional Neural Networks. A fitness parameter is computed by measuring the Euclidean distance between two joints. If fitness is found to be above a threshold value then superimposition of the apparel happens, otherwise, the apparel does not fit the person. This helps a person to save time and shop with ease and comfort.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022186 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AIR- DISINFECTANT KIT: FRESH INVIGORATING AIR PROVIDE CLOSED ENVIRONMENT USING AI PROGRAMMING.

<p>(51) International classification :A61L0002200000, A61L0009015000, A23L0003340900, A61L0002000000, A61L0009160000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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. SHIV KUMAR (ASSOCIATE PROFESSOR AND HEAD) Address of Applicant :Address-1: E-1504, ACE PLATINUM ZETA-1 GREATER NOIDA, UP -201301, INDIA. Address-2: DEPARTMENT OF CIVIL ENGINEERING, JIMS ENGINEERING MANAGEMENT TECHNICAL CAMPUS, 48/4 KNOWLEDGE PARK-III, GREATER NOIDA-201306, UP, INDIA. E-mail: shivkumar7831@gmail.com Uttar Pradesh India</p> <p>2)DR.P. KALYANI (PROFESSOR)</p> <p>3)DR. SOUMITRA DAS</p> <p>4)DR. RAJINDER SINGH SODHI (ASSOCIATE PROFESSOR)</p> <p>5)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>6)DR. VRUSHSEN PURUSHOTTAM PAWAR</p> <p>(72)Name of Inventor :</p> <p>1)DR. SHIV KUMAR (ASSOCIATE PROFESSOR AND HEAD)</p> <p>2)DR.P. KALYANI (PROFESSOR)</p> <p>3)DR. SOUMITRA DAS</p> <p>4)DR. RAJINDER SINGH SODHI (ASSOCIATE PROFESSOR)</p> <p>5)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</p> <p>6)DR. VRUSHSEN PURUSHOTTAM PAWAR</p>
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(57) Abstract :

The inventionAIR- Disinfectant Kitis A method of sterilizing a closed environment is provided in which a fresh invigorating air (ozone) generator is placed into the closed environment; it then generates fresh invigorating air to a predetermined fresh invigorating air concentration and increases the air quality, humidity of the closed environment. The fresh invigorating air concentration is maintained at the predetermined fresh invigorating air concentration for a predetermined period of time, and after the period of time has expired, the fresh invigorating air is depleted. When the fresh invigorating air concentration is reduced to a predetermined thrust hold level, the ozone generator air signals. The process of sterilizing a closed environment is provided, including (a) placing an ozone generator into said closed environment, (b) generating ozone to a predetermined ozone concentration, (c) increasing the humidity of said closed environment, (d) The maintaining said predetermined fresh invigorating air concentration for a predetermined time, (e) after the expiry of said period of time, depleting said fresh invigorating air. (f) when said fresh invigorating air concentration is reduced to a predetermined thrust hold level. The thrust hold generator is provided including a humidifier, temp, air quality, disinfection, timer. A process of inactivating a quantity of Norwalk virus in a closed environment is provided, comprising exposing the closed environment to an ozone concentration of 22 to 38 ppm for 33 to 75 minutes.

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

(54) Title of the invention : A PORTABLE LINK RECIPROCATING DEVICE

(51) International classification	:H04M0001020000, H01L0029080000, E05D0011100000, H01L0021670000, F16K0031524000	(71) Name of Applicant : 1)Leo Paul Address of Applicant :Plot No. A3, SF4, SLF Ved Vihar, Jindal Cinema Road, Behind Sunrise Public School, Loni, Ghaziabad, Uttar Pradesh - 201102, India Uttar Pradesh India 2)Seema Paul
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Leo Paul
(33) Name of priority country	:NA	2)Seema Paul
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is a portable link reciprocating device (200) comprising a gear housing (201). The device has a drive gear (203), an integrated dual axis cam pin (205) comprises a first pin (205a) and a second pin (205b), a driven gear (204) connected with the integrated dual cam pin (205), and a shaft (207) coupled with the first pin (205a) of the integrated dual cam pin (205) at one end to convert rotatory motion of the integrated dual axis cam pin (205) into linear motion at other end.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022252 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : BLOCKCHAIN-BASED AUTOMATED PARKING SYSTEM AND METHOD

(51) International classification	:G07B0015020000, G08G0001140000, H04L0029080000, G06Q0030020000, B60W0030060000	(71)Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Kshitiz Saini
(33) Name of priority country	:NA	2)Sarthak Jain
(86) International Application No	:NA	3)Tanishka Vaswani
Filing Date	:NA	4)Mayank Jha
(87) International Publication No	: NA	5)Dr. Monit Kapoor
(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 blockchain-based automated parking system (102) and method. The blockchain-based automated parking system (102) includes a memory (112) and a microcontroller-based identification device (108). The memory (112) is configured to store a blockchain. The microcontroller-based identification device (108) identifies the vehicles present in the parking lot. The memory (112) is configured to compute a parking fee based on a time duration; determine the vehicles wrongly parked in the parking lot; upload the data of parked vehicles in the parking lot over the platform; obtain location from a computing device of a user and a plurality of triangulation algorithms with geotagging mechanisms to determine where the vehicle is parked in the parking lot, and notify the user regarding the vehicles wrongly parked in the parking lot. The most illustrative drawing: FIG. 3.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022311 A

(19) INDIA

(22) Date of filing of Application :28/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SUBCRITICAL CARBON DIOXIDE RANKINE CYCLE FOR POWER GENERATION

(51) International classification	:F01K0025080000, F01K0013020000, F01K0027020000, F01K0013000000, F25B0040040000	(71) Name of Applicant : 1)Nitin Saxena Address of Applicant :C -4/367 Yamuna Vihar Delhi 110053 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Nitin Saxena
(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 relates to a subcritical region-based carbon dioxide Rankine cycle system(100) for power generation. The present invention includes a condenser(104), a pump(120), an evaporator(124) and a turbine(138). The boundary condition of carbon dioxides Rankine cycle always remains in the subcritical region. A low pressure heated working fluid is being condensed from a saturated gas to a saturated liquid by the condenser(104). The pump(120) receives the low pressure condensed working fluid from the condenser(104). The pump(120) compresses the low pressure condensed working fluid from the saturated liquid to a subcooled liquid. Thus the low pressure condensed working fluid is converted into a high pressure condensed working fluid and passes to The evaporator(124). In the evaporator(124) further the high pressure condensed working fluid gets heated from the subcooled liquid to a superheated gas. The high pressure superheated working fluid undergoes an expansion that rotates the turbine(138) to produce electricity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022349 A

(19) INDIA

(22) Date of filing of Application :28/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HYBRID AQUAPONICS SYSTEM FOR CULTIVATION OF PLANTS

(51) International classification	:A01K0063040000, A01G0031020000, A01G0031000000, A01K0063060000, A01G0031060000	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Shweta Mongia
(33) Name of priority country	:NA	2)Dr. Kiran Kumar Ravulakollu
(86) International Application No	:NA	3)Dr. Neeraj Mahindroo
Filing Date	:NA	4)Dr. Raj Kumar Tiwari
(87) International Publication No	: NA	5)Mr. Vinay Chowdary
(61) Patent of Addition to Application Number	:NA	6)Arushi Jindal
Filing Date	:NA	7)Om Shri
(62) Divisional to Application Number	:NA	8)Kartik Vatsa
Filing Date	:NA	

(57) Abstract :

The present invention relates to a hybrid aquaponics system (100) for cultivation of plants which is capable of combining aquaculture harvesting with hydroponics in a symbiotic environment, whilst mimicking real-world ecosystem of a location where the plants are naturally cultivated. The hybrid aquaponics system (100) includes an aquaponics tank (102) containing a nutrient rich water solution, vertically stacked tubes (104-1, 104-2) for receiving water from the aquaponics tank (102), wherein each of the tubes (104-1, 104-2) has slots (112) on periphery thereof, the slots adapted to accommodate plants for cultivation, a plurality of sensors disposed at specific locations of the aquaponics tank (102) and the tubes (104-1, 104-2) for detecting environmental parameters thereof, and a controller (108) coupled with the sensors and adapted to control the environmental parameters and generate a decision matrix based upon which circulation of water and air in the tubes (104-1, 104-2) is regulated and concentration and ratio of nutrients in the water circulating in the tubes (104-1, 104-2) is maintained. Fig. 1 is the representative figure.

No. of Pages : 29 No. of Claims : 11

(54) Title of the invention : VERSION CONTROL SYSTEM FOR AND METHOD FOR MIGRATION OF DATA FROM SVN SERVER TO GIT SERVER

(51) International classification	:G01N0029440000, H04L0012660000, G01V0001000000, G07G0005000000, G06F0021640000	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Alok Aggarwal
(33) Name of priority country	:NA	2)Vinay Singh
(86) International Application No	:NA	3)Shashi Bisht
Filing Date	:NA	4)Deepak Chandra Bijalwan
(87) International Publication No	: NA	5)Dr. Shalini Aggarwal
(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 aversion control system and method for migration of data from a first server (SVN server)(104) to a second server(Git server) (108). The system comprises a first wireless transceiver (102) which receives migration data from the first server (104), and a second wireless transceiver (106) coupled with the second server (108), the second wireless transceiver (106) being in communication with the first wireless transceiver (102). A data validation unit (110) verifies integrity of migration data received by the second wireless transceiver (106).The second wireless transceiver (106) transmits the migration data to the second server (108) to be written on a file stored at a storage unit. An acknowledgement determination unit (112) determines receipt of migration data at the second server (108) based upon the verification of integrity of the migration data performed by the data validation unit (110) and determines presence of an anomaly in transmission of the migration data from the second wireless transceiver (106) to the second server (108). Fig. 1 is the representative figure.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022473 A

(19) INDIA

(22) Date of filing of Application :28/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR INDICATING A FUEL LEVEL IN A VEHICLE FUEL TANK

(51) International classification	:H03K0017160000, B60L0003000000, B60K0015030000, B60K0015035000, F02D0045000000	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Amit Verma
(33) Name of priority country	:NA	2)Mr. Alind
(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 are provided for indicating a fuel level in a vehicle fuel tank. A circuit operatively configured to the vehicle fuel tank determines a resistance value of each of two resistors (108-1 and 108-2) associated with the circuit. In response to the determined resistance value of the each of two resistors (108-1 and 108-2)being different a determination is made at the circuit that the vehicle is being driven on an inclined surface. Further, a final resistance value based on the determined resistance value is estimated of the each of two resistors(108-1 and 108-2). Then a needle (102) is positioned that corresponds to indicating the fuel level in the vehicle fuel tank based on an induced electromotive force (EMF) due to a current flow in each of two coils (114-1 and 114-2) associated with the circuit. The induced EMF is based on the estimated final resistance value. FIG. 1 shall be the reference Figure.

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

(54) Title of the invention : ACCESS IN 4-G, 5-G MOBILE NETWORK ENVIRONMENTS

(51) International classification	H04L 29/08 H03M 13/27 H04M 15/00	(71)Name of Applicant : 1)DR. SAVRABH KAWAR (DIRECTOR, SARASWATI MEDICAL COLLEGE) Address of Applicant :Address-1: A-208, GOVIND PURAM GHAZIABAD (U.P.)-201001, INDIA. Address-2: SARASWATI MEDICAL COLLEGE, UNNAO, UP-209859, INDIA E-Mail: saurabhkawar@gmail.com Uttar Pradesh India 2)ANKUR SISODIA 3)SWATI 4)PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY) 5)DR. VRUSHSEN PURUSHOTTAM PAWAR 6)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. SAVRABH KAWAR (DIRECTOR, SARASWATI MEDICAL COLLEGE) 2)ANKUR SISODIA 3)SWATI 4)PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY) 5)DR. VRUSHSEN PURUSHOTTAM PAWAR 6)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
(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 :

My Invention ACCESS IN 4-G, 5-G MOBILE NETWORK ENVIRONMENTS is a Techniques for web access in a 4-G.5-G wireless networking real time environment are discussed herein. In this invention used techniques can be implemented in 4th,5th Generation (4-G.5-G) environments via a web access component arranged to accept WWW, HTTP requests from a user digital kit and initialize a session in various components in the 4-G.5-G environment to utilize a user complex and plane function. The www, web access can be provided by a web access inter-working complex function (WxIWF) integrated interface in communication with an access and mobility management function (AMF) and a user complex, plane function (UPF). The technology facilitates seamless transitions between non-3GPP access and 3GPP access because traffic associated with both types utilize a same session in the 4-G, 5-G environment components. The modern terrestrial telecommunication systems include heterogeneous mixtures of second, third, and fourth generation (1G, 2G, 3G, and 4G) cellular-wireless access technologies, which can be cross-compatible and can operate collectively to provide data communication services. The 2-G telecommunications technologies; Universal Mobile Telecommunications System (UMTS) is an example of 3G telecommunications technologies; and Long Term Evolution (LTE), including LTE Advanced, and Evolved High-Speed Packet Access (HSPA+) are examples of 4-G telecommunications technologies. Moving forward, future telecommunications systems may include fifth generation (5-G) cellular-wireless access technologies to provide improved bandwidth and decreased response times to a multitude of devices that may be connected to a network.

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

(54) Title of the invention : AN APPARATUS FOR HOUSING AN AIR QUALITY MEASUREMENT APPARATUS

(51) International classification	:G06F 1/16 G01N 15/00 A45C 13/10	(71) Name of Applicant : 1)Raja Singh Address of Applicant :2746, Phase 7 (Sector-61), Mohali (S.A.S. Nagar). Punjab 160062. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Raja Singh
(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 low-cost tamper-resistant apparatus (100) is provided for housing an air quality measurement apparatus (416) wherein the apparatus (100) having a base (102), a top side (104), a left side (106), a right side (108), a front side (110), and a back side (112), wherein the base (102) possessing a length defined between the front side (110) and the back side (112) and a width defined between the left side (106) and the right side (108); wherein the left side (106) and the right side (108) are parallel to each other, wherein the front side (110) and the back side (112) are parallel to each other, wherein the base (102) is at an angle to a bottom surface of the left side (106), the right side (108), the front side (110), and the back side (112), a lock mechanism (124a, 124b) integrated into an upper surface (126) of the top side (104) and the front side (110) for the closure of the housing and at least one fan (114a, 114b, 116a, 116b) disposed at the left side (106) and the right side (108) wherein the at least one fan (114a, 114b, 116a, 116b) configured to generate or distribute uniform air in the apparatus (100).

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : VISIBLE LIGHT WIRELESS COMMUNICATION

<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>:H04B 10/116 H04B 10/114 H04L 12/44 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA</p> <p>(71)Name of Applicant :</p> <p>1)MR. SAMIR MISHRA (ASST. DIRECTOR R&D) Address of Applicant :RAMA UNIVERSITY KANPUR, UP-209217, INDIA. E-Mail: iitkgpsam@gmail.com Uttar Pradesh India</p> <p>2)DR. HARI OM SHARAN (PROFESSOR & DEAN-ENGINEERING)</p> <p>3)DILEEP KUMAR (ASST. PROFESSOR)</p> <p>4)MR. RAGHVENDRA SINGH (ASST. PROFESSOR)</p> <p>5)MR. AMIT KUMAR SINGH (ASST. PROFESSOR)</p> <p>(72)Name of Inventor :</p> <p>1)MR. SAMIR MISHRA (ASST. DIRECTOR R&D)</p> <p>2)DR. HARI OM SHARAN (PROFESSOR & DEAN-ENGINEERING)</p> <p>3)DILEEP KUMAR (ASST. PROFESSOR)</p> <p>4)MR. RAGHVENDRA SINGH (ASST. PROFESSOR)</p> <p>5)MR. AMIT KUMAR SINGH (ASST. PROFESSOR)</p>
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(57) Abstract :

Light-emitting diodes (LEDs) are changing indoor remote correspondences. LEDs as transmitters is a developing examination zone and has critical business potential. Noticeable light correspondence (VLC) is another worldview that could reform what's to come of remote correspondence. In VLC, data is transmitted through adjusting the noticeable light range (400-700 nm) that is utilized for enlightenment. The light produced from LEDs can all the while convey data and give brightening. Because of the inherent attributes of light, VLC is progressively secure, more force proficient, and can give higher system information transmission rates than radio recurrence correspondences. Documents describes the application of VLC systems including transmitters, receivers, and channel models. Expository and test work has demonstrated the capability of VLC to furnish fast information correspondence with the additional bit of leeway of improved vitality efficiency and correspondence security/protection. These algorithms are designed considering practical constraints, such as the band limited channel, illumination requirements, and transmitted power limitations. Indoor localization algorithms are proposed, with a particular focus on fingerprinting. VLC is still in the early period of look into. There are less survey articles distributed on this subject for the most part tending to the physical layer look into. In contrast to different audits, this article gives a framework perspective of VLC alongside the overview on existing writing and potential difficulties toward the execution and joining of VLC. These calculations are planned thinking about practical constraints, the band limited channel, light necessities, and transmitted force constraints.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022812 A

(19) INDIA

(22) Date of filing of Application :31/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : APPARATUS AND METHOD FOR REAL TIME NAVIGATION ASSISTANCE

(51) International classification	:G08G 1/01 G08G 1/16 G08G 1/127	(71)Name of Applicant : 1)BHARDWAJ AMIT KUMAR Address of Applicant :LM THAPAR SCHOOL OF MANAGEMENT, DERABASSI CAMPUS. THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, PATIALA, PUNJAB, INDIA €“ 147005. Punjab India
(31) Priority Document No	:NA	2)GARG LALIT
(32) Priority Date	:NA	3)SHRIVASTAVA DIVYA PRAKESH
(33) Name of priority country	:NA	4)SINGH RAKESH
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)BHARDWAJ AMIT KUMAR
(87) International Publication No	: NA	2)GARG LALIT
(61) Patent of Addition to Application Number	:NA	3)SHRIVASTAVA DIVYA PRAKESH
Filing Date	:NA	4)SINGH RAKESH
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for real time navigation assistance is disclosed. The apparatus comprises, at least one processor; and at least one memory including computer program code for one or more programs, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to perform at least the following, capturing the probe data of vehicles; identifying the turning points of vehicles using the bearing angle from the captured probe data; slicing the captured probe data; determining the maximum distance between two points of the probe and calculating the minimum distance (width) of the road divider through which the vehicle can travel; deciding whether the vehicle can pass through the gap or take a U-turn based upon the probe data of vehicles and determined width. The apparatus further includes a method for real time navigation assistance.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022816 A

(19) INDIA

(22) Date of filing of Application :31/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SAFETY AND HEALTH MONITORING SYSTEM FOR USE WITH A FOOTWEAR

(51) International classification	:H02N 2/18 A61B 5/00 A61B	(71)Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	5/11	(72)Name of Inventor : 1)Dr. Akashdeep Bhardwaj
(32) Priority Date	:NA	2)Mr. Varun Sapra
(33) Name of priority country	:NA	3)Mr. Gunjan Chhabra
(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 :

Disclosed is a safety and health monitoring system (100) for use with a footwear (102). The safety and health monitoring system includes an accelerometer (4), a location tracking module, a plurality of Nanogenerators (3), and a controller (2). The accelerometer (4) detects the motion of a user to compute steps. The location tracking module is connected to the accelerometer (4) to detect the geographical location of the user. The plurality of Nanogenerators (3) receives pressure from feet in the footwear to convert the pressure into electrical energy. The controller (2) is configured to receive motion data, geographical location data, and pressure data from the accelerometer (4) and the location tracking module and to transmit the motion data, the geographical location data and the pressure data to a computing device (104) over a network (106). The Nanogenerators (3) generates the electrical energy to power the accelerometer (4), the location tracker, and the controller (2). The most illustrative drawing: FIG. 2.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022819 A

(19) INDIA

(22) Date of filing of Application :31/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR IDENTIFYING AND MONITORING A PERSON INFECTED BY A VIRULENT RESPIRATORY VIRUS

(51) International classification	:A61B 5/00 A61B 5/01 H04N	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	5/33 :NA	(72) Name of Inventor : 1)ANKUR KOHLI
(32) Priority Date	:NA	2)AAYUSH VATS
(33) Name of priority country	:NA	3)JASJIT SINGH
(86) International Application No	:NA	4)DR. DEEPAK KUMAR
Filing Date	:NA	5)DR. AJAY 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 :

Disclosed are a system and method for identifying and monitoring a person infected by a virulent respiratory virus. The system includes a thermal camera, a notification device, a camera, and an information capture module. The thermal camera performs thermal screening on the person present in a proximity to detect the body temperature of the person and to determine if the body temperature of the person is greater than a threshold value to transmit a command signal. The notification device is connected initiates a notification signal on receiving the command signal from the thermal camera. The camera consecutively captures an image of the person present in the proximity of the thermal camera. The person with the body temperature greater than the threshold value is identified as an infected person. The information capture module is configured with a computing device to capture the personal information of the infected person. The most illustrative drawing: FIG. 1.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022847 A

(19) INDIA

(22) Date of filing of Application :01/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : NOISE REDUCTION SYSTEM AND METHOD

(51) International classification	:H04N	(71)Name of Applicant :
(31) Priority Document No	5/33	1)University of Petroleum and Energy Studies
(32) Priority Date	:NA	Address of Applicant :Energy Acres, Bidholi, Premnagar,
(33) Name of priority country	:NA	Dehradun, Uttarakhand, India-248007 Uttarakhand India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Alok Aggarwal
(87) International Publication No	: NA	2)Deepak Chandra Bijalwan
(61) Patent of Addition to Application Number	:NA	3)Vinay Singh
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention involves a noise reduction system that includes a camera sensor device, a memory, and an Image Signal Processor (ISP) module. The camera sensor device receives Bayer data pertaining to Bayer images stored in a memory. The ISP module stores an application comprising a plurality of executable instructions configured to segment the Bayer images into a plurality of regions; identify a plurality of masks based on intensity in the plurality of regions; apply a filter to the plurality of regions; compute luminance values of each of the plurality of regions to perform filtering; and filter the plurality of regions on determining that the luminance values of the plurality of regions are less than a deviation value. The regions are classified into an outlier on determining that the luminance values are greater than the deviation value. The plurality of executable instructions further configured to obtain a noise-free image. [FIG. 2].

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022881 A

(19) INDIA

(22) Date of filing of Application :01/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A DEVICE AND METHOD FOR HELMET DETECTION

(51) International classification	:A42B 3/04 A61B 5/00 H04R 1/10	(71)Name of Applicant : 1)Dentsu Advertising and Media Services India Private Limited Address of Applicant :10th Floor, Tower A, Building No. 5, DLF Cyber City, Phase III, Gurgaon, Haryana, India. Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ankur Garg
(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 device and a method for detecting helmet on a rider, comprising at least one sensor (212) to capture infrared energy emitted by face of the rider (408) to determine temperature readings at different sections of the face (500); at least one motor (210) connected to the at least one sensor to enable lateral movement of the sensor across the face of the rider (408); at least one microprocessor (204) to store and process the temperature readings received from the at least one sensor to determine whether the rider (408) is wearing a helmet (406) or not; and at least one indicator (614) connected to the microprocessor (204) to provide visual or audio indication in the event the microprocessor (204) determines that the rider (408) is not wearing a helmet (406). The device alerts the rider of a two-wheeler when not wearing a helmet, thereby aiding safety of the rider.

No. of Pages : 39 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022975 A

(19) INDIA

(22) Date of filing of Application :01/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR PERFORMING A CONVOLUTION OPERATION WITH FUNCTIONAL SAFETY MECHANISM

(51) International classification	:G06N 3/04 G06F 7/544 G06F 17/15	(71) Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BALASUBRAMANIYAN, Prasanna Venkatesh
(33) Name of priority country	:NA	2)GOPALAKRISHNAN, Sainarayanan
(86) International Application No	:NA	3)RAJAGOPAL, Gunamani
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 Convolution Multiply and Accumulate - Xtended (CMAC-X) system (102) for performing a convolution operation with functional safety mechanism is disclosed. The CMAC-X system (102) receives image data pertaining to an image. The image data comprises a set of feature matrix, a kernel size and depth information. Further, the CMAC-X system (102) generates a convoluted data based on convolution operation for each feature matrix. The CMAC-X system (102) performs an accumulation of the convoluted data to generate accumulated data, when the convolution operation for each feature matrix is performed. The CMAC-X system (102) further performs an addition of a predefined value to the accumulated data to generate added data. Further, the CMAC-X system (102) filters the added data. Further, the CMAC-X system (102) comprises a functional safety unit to verify a functionality of the CMAC-X system (102), thereby performing the convolution operation of the image with functional safety mechanism.

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023185 A

(19) INDIA

(22) Date of filing of Application :02/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING BILL OF MATERIALS FOR A PRODUCT

(51) International classification	:G06Q 10/08 G06Q 10/06 G06F 16/2457	(71) Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, INDIA Delhi India (72) Name of Inventor : 1)Yuvaraj D Patil 2)Mohan Sriram
(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 :

The invention relates to method (300) and system (100) for generating a Bill of Materials (BOM) for a product. In some embodiments, the method (300) includes acquiring (302) information associated with a component of the product using communicatively connected information recording instruments (110). The information may include measurement parameters recorded using communicatively connected measuring instruments. The method (300) further includes automatically populating (304) a set of data fields from among a plurality of data fields in a graphic user interface (GUI) (122) based on the acquired information and a shape of the component, receiving (306) a validation command from the user via the GUI (122), and storing (308) the plurality of data fields as one of a plurality of records in a BOM database (202) for the product upon receiving the validation command. The shape of the component may be selected by a user from a list of pre-defined shapes or may be identified based on an image of the component. To be published with FIG. 2

No. of Pages : 37 No. of Claims : 12

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLED SANITIZATION IN PASSENGER VEHICLE

(51) International classification	:A61B 17/22 A61C 17/02 A61L 2/07	(71)Name of Applicant : 1)RAJAT BHANDARI Address of Applicant :S/O Rajiv Bhandari, H. No. 17 Trust Colony, Opp. S.D.M Court, Dalhousie Road Pathankot Punjab India Punjab India 2)DHRUV KAUSHIK 3)PRASHANT SHUKLA 4)SEEMA BHANDARI 5)DIKSHA SHARMA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)RAJAT BHANDARI 2)DHRUV KAUSHIK 3)PRASHANT SHUKLA 4)SEEMA BHANDARI 5)DIKSHA 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 disclosure provides an apparatus (104) for a vehicle (102), the apparatus (104) includes a fluid discharge assembly. The fluid discharge assembly includes an outlet nozzle (106), a fluid barrier (108), a flexible fluid conduit (110), a dynamic mounting panel (112), and a plurality of guiding wheels (114). In addition, the dynamic mounting panel (112) holds the outlet nozzle (106). Further, the dynamic mounting panel (112) fluidly connects a first conduit end (110a) with the outlet nozzle (106). Furthermore, the apparatus (104) further includes a plurality of guide rails (116), a driving belt (118), a fluid conduit winding spool (120), and a fluid reservoir (122). Moreover, the plurality of guide wheels (114) enables the fluid discharge assembly to move along a longitudinal axis of the plurality of guide rails (116). Also, the flexible fluid conduit (110) is wrapped around the fluid conduit winding spool (120).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023214 A

(19) INDIA

(22) Date of filing of Application :03/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN RO WASTEWATER TREATMENT DEVICE AND METHOD OF TREATING THEREOF

(51) International classification	:C02F 1/00 C02F 9/00 C02F 1/44	(71) Name of Applicant : 1)Maya Sharma Address of Applicant :283/5 New layal pur chander Nagar delhi Delhi India 2)Jalmay Innovative O2 solution (OPC) Pvt Ltd
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Maya Sharma
(33) Name of priority country	:NA	2)Jalmay Innovative O2 solution (OPC) Pvt Ltd
(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 RO wastewater treatment device for treating and recycling wastewater produced by a RO water filter during production of purified water includes a switchboard, an inlet pipe, an outlet pipe , a container with a baffle plate dividing the container into an upper compartment, a lower compartment, a plurality of antiscalant balls, an overflow pipe, a submersible electric pump, a nozzle operably configured with a passive infrared sensor and an LCD display screen. Fig. 1

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

(54) Title of the invention : AN EFFICIENT AND COST EFFECTIVE SYSTEM DESIGN FOR LOW COST CLOUD RESOURCE MANAGEMENT

(51) International classification	:H04L 29/08 G06F 9/50 G06Q 10/06	(71)Name of Applicant : 1)MR. BHUPESH KUMAR DEWANGAN Address of Applicant :BLOCK-09, DEPARTMENT OF INFORMATICS, SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF PETROLEUM AND ENERGY STUDIES (UPES), ENERGY ACRES, VIA PREMNAGAR, BIDHOLI, DEHRADUN, UTTARAKHAND-248007, INDIA Uttarakhand India
(31) Priority Document No	:NA	2)DR. TANUPRIYA CHOUDHURY
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)MR. BHUPESH KUMAR DEWANGAN
(86) International Application No	:NA	2)DR. TANUPRIYA CHOUDHURY
Filing Date	:NA	3)MR. VISHNU KUMAR MISHRA
(87) International Publication No	: NA	4)MRS. MEGHA MISHRA
(61) Patent of Addition to Application Number	:NA	5)DR. AMIT AGARWAL
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Resource management is a cost effective approach for load balancing in distributed environment. The current work does not meet the efficient resource scheduling parameters like server utilization, quality-service, and cost effective workload balancing in minimum time. An efficient load balanced algorithm will be proposed to build sure Cloud Computing can be used efficaciously & successfully that is a crucial intention of the service company. There"s an actual require to make bigger new assignment scheduling algorithm to fulfil the virtualization precept and demand. The target of the venture scheduling algorithm is to gain excessive system throughput, improve the burden stability and decrease the of completion time whilst ensuing within the identical time meeting the process requirement with available virtualized sources. In line with the undertaking scheduling, a difficillt and Speedy of the precise variety of duties is to be scheduled to the digital machines. Task scheduling over the Cloud Computing resources are the most vital assignment due to the truth the user will should pay for useful resource use on the premise the time. In this venture work right here, it is imposing the novel process for low cost cloud resource management system. The main objective of the system is to minimize energy consumption by each resources, to minimize execution and scheduling time, to minimize service level agreement SLA violation rate (compliance rate) so that the system minimizes the overall cost of scheduling of workloads submitted by cloud user.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023265 A

(19) INDIA

(22) Date of filing of Application :03/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HEARING ASSISTANCE PROCESS FOR THE VISUALLY IMPAIRED PERSONS

(51) International classification	:G06K 9/62 G06K 9/00 G06K 9/66	(71)Name of Applicant : 1)Mr. Akarsh Aggarwal Address of Applicant :H. No- 332, Ashoka Enclave Main, Sector- 35, Faridabad, (India) 121003 Haryana India 2)Dr. Manoj Kumar 3)Dr. Sanjeev Kumar Punia
(31) Priority Document No	:NA	4)Ms. Kalpana
(32) Priority Date	:NA	5)Dr. Bhoopesh Singh Bhati
(33) Name of priority country	:NA	6)Dr. Manoj Kumar Gupta
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mr. Akarsh Aggarwal
(87) International Publication No	: NA	2)Dr. Manoj Kumar
(61) Patent of Addition to Application Number	:NA	3)Dr. Sanjeev Kumar Punia
Filing Date	:NA	4)Ms. Kalpana
(62) Divisional to Application Number	:NA	5)Dr. Bhoopesh Singh Bhati
Filing Date	:NA	6)Dr. Manoj Kumar Gupta

(57) Abstract :

The present invention is directed to a process for assisting visually-challenged persons to recognize hearing objects and for converting real-time video streaming to speech signal using Deep Learning technique. The method , comprises the steps of ; acquiring video of the nearby environment that contains objects to be recognised by a high-resolution video recording camera; detecting and classifying objects in the captured video using Pre-Trained Convolutional Deep Learning Model to retrieve the classified label of the output; embedding the categorised output with sample text phrases to form a text sentence; converting text sentence to speech signal for synthesis and hearing by the person with the help of a receiver device. Ref: Figure 1

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023382 A

(19) INDIA

(22) Date of filing of Application :03/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART PHOTO-HYDROPONICS GREENHOUSE INCUBATOR

(51) International classification	:A01G 7/04 A01G 9/14 A01G 9/24	(71)Name of Applicant : 1)Fuelix International Pvt. Ltd. Address of Applicant :702, Chocolate Palm C, Omax Palm Greens, MU, Greater Noida, UP, INDIA, PIN: 201308 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Kushagra Singh
(32) Priority Date	:NA	2)Dr. Praveen Kumar Maduri
(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 increase in growing population of the world and decrease in availability of fertile land give rise to the threat for continuous feeding the world population in near future. Industrial agriculture to grow commercially demanded crops still need a technology upgrade to grow large number of high-quality crops in less time. The extreme climatic conditions make it unfit for the crops to grow well in harsh natural environment and eroded soil. The light from the sun has more amount of UV light which degrade the food production process of the plants. The invention is efficient to provide an artificially configured and monitored greenhouse environment to grow commercially desirable crops with much greater efficiency. The invention is capable to run fully on renewable energy with least carbon emission in the environment. The smart photo-hydroponics incubator is developed to enhance commercial farming with the use of advance technology and an advance feedback-oriented algorithm to manage the incubator with least labour interference required during growth cycle of the crops.

No. of Pages : 27 No. of Claims : 6

(54) Title of the invention : METHOD AND SYSTEM FOR PERFORMING TREATMENT OF WATER IN A WATER RESERVOIR

(51) International classification	:G06F 11/36 H04L 29/08 E21B 47/00	(71)Name of Applicant : 1)Er. Preeti Singla Address of Applicant :Research Scholar, Computer Science Department, Maharishi Markandeshwar University, Ambala - Yamunanagar Highway, Mullana - Ambala, 133-207 Haryana Haryana India
(31) Priority Document No	:NA	2)Er. Abhay Bindal
(32) Priority Date	:NA	3)Dr. Kamal Kant Sharma
(33) Name of priority country	:NA	4)Dr. Himanshu Monga
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Er. Preeti Singla
(87) International Publication No	: NA	2)Er. Abhay Bindal
(61) Patent of Addition to Application Number	:NA	3)Dr. Kamal Kant Sharma
Filing Date	:NA	4)Dr. Himanshu Monga
(62) Divisional to Application Number	:NA	5)Dr. Neeraj Kumar
Filing Date	:NA	6)Dr. Neera Batra

(57) Abstract :

A method of performing treatment of water in a water reservoir is disclosed. The method may include receiving a value of each of one or more parameters associated with water in a water reservoir from a sensor of one or more sensors (104) configured to obtain the value of a corresponding parameter of the one or more parameters, and comparing the received value with a predetermined value of each of the one or more parameters. The method may further include determining an action to be performed by an action device of the one or more actions devices (106), based on at least one of the comparison or a user input, causing to start performing of the determined action by the associated action device of the one or more action devices (106). The method may further include sending a notification to a user via a second communication channel (114). [To be published with Fig. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023472 A

(19) INDIA

(22) Date of filing of Application :04/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A PROCESS OF PREPARING A HERBAL FACE MASK AND A HERBAL ASK THEREOF

(51) International classification	:A61K 36/58 A01N 65/26 A01N 43/90	(71) Name of Applicant : 1)Prof.(Dr.) Smriti Agarwal Address of Applicant :School of Design, Mody University of Science and Technology, Lakshmangarh €“ 332311, Distt. Sikar (Rajasthan) Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Prof.(Dr.) Smriti Agarwal
(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 process and composition of preparing a herbal face mask is provided. The process includes dipping leaves of Azadirachta indica and Saraca asoca for overnight in an earthen pot; boiling dipped leaves of Azadirachta indica and Saraca asoca in boiled water in said earthen pot for 45 minutes; straining said pot a multiple times through a strainer; collecting aqueous extract of Azadirachta indica and Saraca asoca after straining; dipping a cotton fabric in presence of alum and salt in aqueous extract of Azadirachta indica and Saraca asoca for 4.5 hrs at 38 oC in said earthen pot; stirring the fabric using a wooden stick during the dipping of the fabric in said aqueous extract of Azadirachta indica and Saraca asoca ; and preparing a herbal face mask using the cotton fabric treated with aqueous extract of Azadirachta indica and Saraca asoca . The composition includes 63% Azadirachta indica by weight; 37% Saraca asoca by weight; and 4 gm Alum and 7 gm Salt 1 Litre of aqueous extract formed from 63% by weight of Azadirachta indica and 37% by weight of Saraca asoca.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023530 A

(19) INDIA

(22) Date of filing of Application :04/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MODIFIED ACTUATOR FOR A HAND-SANITIZER LIQUID DISPENSER PUMP WITH A SELF-DISINFECTING TOP SURFACE

(51) International classification	:G06F 3/01 A61Q 17/00 A61L 2/22	(71)Name of Applicant : 1)SIDDARTH GUPTA Address of Applicant :495, Sector 4, Channi Himmat, Jammu, Jammu and Kashmir, India Jammu & Kashmir India (72)Name of Inventor : 1)SIDDARTH GUPTA
(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 :

The present disclosure describes a two component solution for the actuator (12), in the form of an actuator housing (1) and a sponge (2) to be used with the already existing liquid dispenser pumps dispensing alcohol-based hand sanitizer liquid. The novel solution provides for disinfection of the top surface of the actuator (12) that is exposed to touch by the user. The method further elaborates the steps of priming of the actuator (12), thereby resulting into the movement of hand-sanitizer liquid into a sponge (2) through a sponge-plug (2.1) of the actuator (12); and automatic disinfecting of the top surface sponge-top (2.2) of the actuator (12) with every repeated operation of the sanitizer dispenser, thereby allowing absorption and soaking of the sponge-top (2.2) with hand-sanitizer liquid, and keeping the top surface disinfected at all times. Refer Fig. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023562 A

(19) INDIA

(22) Date of filing of Application :04/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ZINC NANOPARTICLE USING OSCIMUM SANCTUM AND ITS APPLICATION AGAINST RESISTANT MICROBES OF URINARY TRACT INFECTION

(51) International classification	:A61K 36/53 A61K 33/24 A01N 25/10	(71)Name of Applicant : 1)Monisa Anwer Address of Applicant :RAMA UNIVERSITY KANPUR, U.P 209217 Uttar Pradesh India 2)Dr. Ajay Kumar
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Monisa Anwer
(32) Priority Date	:NA	2)Dr. Ajay 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 :

The phyto-amalgamation of any nanoparticle has attracted attentions of several researchers. The green synthesis has led to a new revolution in nanoparticle sciences. In this invention Cefotaxime for E. coli and P. aeruginosa was incorporated along with ZnO prepared by green synthesis using Oscimum sanctum. The composition was found to be active against antibiotic resistant microbes.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023690 A

(19) INDIA

(22) Date of filing of Application :05/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : DUSTBIN SYSTEM FOR RECYCLING OF PLASTIC WASTE INTO FUEL USING PYROLYSIS PROCESS

(51) International classification	:C10G 1/10 B29B 17/02 B29B 17/04	(71)Name of Applicant : 1)DR. RAVINDRA PATHAK Address of Applicant :Associate Professor, Department of Mechanical Engineering , MEDI-CAPS University, Indore, Madhya Pradesh, INDIA Madhya Pradesh India 2)DR. SUNIL K. SOMANI 3)Dr Fauzia Siddiqui 4)Dr Mahendra Pratap Singh 5)Dr. Mohammad Israr
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. RAVINDRA PATHAK 2)DR. SUNIL K. SOMANI 3)Dr Fauzia Siddiqui 4)Dr Mahendra Pratap Singh 5)Dr. Mohammad Israr
(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 is related to a dustbin system for recycling of plastic waste into fuel using pyrolysis process. The objective of the present invention is to solve the problems in the prior art related to adequacies in techniques and technologies for recycling of plastic waste into fuel using pyrolysis process.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023712 A

(19) INDIA

(22) Date of filing of Application :05/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD AND COMPOSITIONS FOR USE OF 10000-FOLD-EFFECT VIA INTRATHECAL SODIUM NITROPRUSSIDE (ITSNP) AS A NITRIC OXIDE SYNTHASE IN MOTOR NEURON DISEASE (MND)

(51) International classification	:C12N 15/86 A61K 31/7052 A61K 31/155	(71)Name of Applicant : 1)DR. VINOD KUMAR TEWARI Address of Applicant :5/279, Vipul Khand, Gomti Nagar, Lucknow - 226 010, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. VINOD KUMAR TEWARI
(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 :

This invention relates to compositions and methods for treating motor neuron diseases and related disorders. Particularly, the present invention discloses a method and compositions for use of 10000-fold-effect via intrathecal sodium nitroprusside (ITSNP) as a nitric oxide synthase in motor neuron disease (MND). The intrathecal sodium nitroprusside is used to activate the 10000-fold effect to modulate the retrograde neuroregulation in MND.

No. of Pages : 19 No. of Claims : 7

(54) Title of the invention : MOBILE AEROSOL RESTRICTION BOX (MARB)

(51) International classification	:A61G 10/00 G16H 50/80 G11B 5/39	(71)Name of Applicant : 1)Binit Sureka Address of Applicant :All India Institute of Medical Sciences (AIIMS), Jodhpur. Rajasthan India 2)Nikhil Kothari 3)Sanjeev Misra
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Binit Sureka
(33) Name of priority country	:NA	2)Nikhil Kothari
(86) International Application No	:NA	3)Sanjeev Misra
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 Aerosol Containment Box is an acrylic box, prepared for the transport of patients suffering from infectious disease. It is designed to cover the head, face & upper part of the patient's body in order to prevent the spread of droplets during the transport of infected patients. The box is made up of transparent acrylic sheet, which is thirty (30) inches in length, twenty (24) four inches in width and height. On three sides, it has round windows, to communicate with the patient or to manage any issues with the patient during the transport. These windows are covered with a movable acrylic sheet, to prevent the spread of droplets while the patient is coughing. The box is open at the lower end and is fixed on the stretcher by the help of freely movable channels. These channels will help in pulling the box above the head end of the stretcher while shifting the patient on the stretcher. Once the patient is shifted on the stretcher, the box can be gently pushed forward to slide over the patient. Once the box has covered the upper torso of the patient, it will prevent the spread of aerosols while the patient is being shifted in the hospital.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023883 A

(19) INDIA

(22) Date of filing of Application :08/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : WEARABLE TEMPERATURE MONITORING DEVICE

(51) International classification	:G01K 1/02 A61B	(71)Name of Applicant : 1)Siddharth Madhav(a minor through his guardian Durgesh Pant)
(31) Priority Document No	5/01	Address of Applicant :B 223 Sector 4 Defence Colony
(32) Priority Date	G01K	Dehradun Uttarakhand 248001 India Uttarakhand India
(33) Name of priority country	13/00	(72)Name of Inventor :
(86) International Application No	:NA	1)Siddharth Madhav(a minor through his guardian Durgesh Pant)
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 wearable temperature monitoring device (100) that includes a housing (102) and a cap (106). The housing (102) includes a temperature sensor (108), a communication module (110), and a microcontroller (112). The cap (106) is operative to be removably coupled with the housing (102). The temperature sensor (108) is configured to measure the temperature data of the body of a wearer. The communication module (110) with a radio signal system electrically coupled with the temperature sensor (108) configured to establish a communication between the housing (102) and one or more computing devices (104) to transmit the temperature data of the wearer. The microcontroller (112) stores and executes a plurality of instructions pertaining to measurement and transmission of the temperature data of the wearer. The most illustrative drawing:

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023892 A

(19) INDIA

(22) Date of filing of Application :08/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SANITIZING BAG FOR PREVENTING SPREAD OF INFECTION THROUGH HUMAN CONTACTS AND ALSO SANITIZING PACKED GROCERIES

(51) International classification	:A45C 3/04 A61L 2/10 A45C 3/00	(71) Name of Applicant : 1)SUMIT DEY Address of Applicant :C-3/15, SECOND FLOOR, JANAKPURI Delhi-110058 Delhi India (72) Name of Inventor : 1)SUMIT DEY
(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 :

The present invention relates to a bag that significantly reduces or eliminates bacteria, germs, viruses and / or other microorganisms from the surface of the object such as packed groceries or any other object placed in the bag. The bag is also adapted to sanitize the human hands and prevents spread of infection thru human contacts. The bag comprises an exterior bag made up of flexible material and an interior sanitizing bag configured inside the exterior bag. The interior sanitizing bag is soaked in a sanitizing liquid. Figure 1 & 2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024001 A

(19) INDIA

(22) Date of filing of Application :08/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PORTABLE AUTOMATIC WATER DISPENSER

(51) International classification	:B67D 1/08 B67D 1/00 B01F 13/00	(71) Name of Applicant : 1)ABHISHEK KUMAR Address of Applicant :PhD Research Scholar at ICAR-CIAE, Post Graduate School, Indian Agricultural Research Institute (IARI), Pusa, New Delhi, Delhi, India-110012 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ABHISHEK 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 :

The present invention relates to a portable automatic water dispenser system has a microcontroller based distance measuring sensor (4), which measures the distance between the sensor and any object such as human hands. When the distance between the sensor and the object is less than the value fed in the software/program, which can be varied, the microcontroller (3) sends a signal to actuate the electronic switch, which further turns the water supplying device (6) or water pump to high position and water is dispensed out for use without any physical contact with the lever and vice-versa. FIGURE 1

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

(54) Title of the invention : SYSTEM AND METHOD FOR ANALYSING PERFORMANCE PARAMETERS OF A PHOTOVOLTAIC (PV) MODULE

(51) International classification	:H02P 6/182 F16H 61/46 H02P	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	6/21 :NA	(72) Name of Inventor : 1)Dr. Rupendra Kumar Pachauri
(32) Priority Date	:NA	2)Mr. Udayveer Mittal
(33) Name of priority country	:NA	3)Mr. Abhishek Sharma
(86) International Application No	:NA	4)Dr. Safia A. Kazmi
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 for analysing performance parameters of a photovoltaic (PV) module are based on a microcontroller (110) that initializes a system (100) to set position of a servo motor (106) to zero degrees. For each of the positions of the servo motor (106) between zero degrees and a predefined or configurable threshold, the microcontroller (110) receives a current value and a voltage value corresponding to the position of the servo motor (106) from a current sensor (104) and a voltage sensor (108) respectively and stores the received current value and the received voltage value corresponding to the position of the servo motor (106) in a storage device (118). The microcontroller (110) then analyses the performance parameters based on each of the stored current value and the voltage value. Figure 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024060 A

(19) INDIA

(22) Date of filing of Application :08/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR ASSESSING AUTHENTICITY OF A COMMUNICATION

(51) International classification	:G06K 9/46 G06K 9/00 G16H 50/20	(71)Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi-110019, India Delhi India (72)Name of Inventor : 1)TAGRA, Himanshu 2)VRATI, Gaurav 3)YADAV, Sanjay 4)AGARWAL, Anubhav
(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 :

Disclosed is a method and system for assessing the authenticity of a communication. The method comprises receiving data of the communication by the processor 202 between one or more participants. Further, extracting one or more features by the processor 202 from the data by using data extraction techniques. Further, comparing the one or more features by the processor 202 with predefined threshold features stored in a feature repository. Further, generating, one or more authenticity attributes by using one or more trained Artificial Intelligence (AI) models applied over the one or more features, along with results of the comparing. Each of the one or more authenticity attributes generates a recommendation output, providing the authenticity of the communication. [To be published with Figure 1]

No. of Pages : 26 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024061 A

(19) INDIA

(22) Date of filing of Application :08/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : INSECT SPECIES CLASSIFICATION METHOD

(51) International classification	:G06K 9/62 G06K 9/00 G06T 7/00	(71)Name of Applicant : 1)Dr. Sukhwinder Sharma Address of Applicant :Department of Computer Science and Engineering, Baba Banda Singh Bahadur Engineering College Fatehgarh Sahib-140406, Punjab, India. Punjab India 2)Dr. Lalit Mohan Goyal 3)Dr. Mamta Mittal 4)Dr. Amit Verma 5)Dr. Iqbaldeep Kaur 6)Deepika Kumar 7)Alankrita Aggarwal
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Lalit Mohan Goyal 2)Dr. Sukhwinder Sharma 3)Deepika Kumar 4)Alankrita Aggarwal 5)Dr. Amit Verma 6)Dr. Iqbaldeep Kaur 7)Dr. Mamta Mittal
(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 :

An insect species classification method, comprising steps of inputting specimen image(s) and eliminating unwanted data from the image(s) converting the image(s) into binary image(s) for finding a region of interest and extracting the region from the binary image(s), calculating geometrical properties from the region for extracting out structural feature(s) from the region, finding texture properties from the image(s) for extracting texture feature(s) from the image(s), integrating both features by adding and merging operations to form a training set of data, and initializing a growing convolutional neural network with plurality of layers and providing training to the network on the basis of the set of data, progress till a user-settable threshold accuracy is achieved and classifying the image(s) into appropriate category. Ref Figure 1 &2

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

(54) Title of the invention : AN ELECTRICAL SOLUTION FOR KILLING LOCUST

(51) International classification	:A01M 1/22 B64C 39/02 B01J 37/34	(71)Name of Applicant : 1)Satya Narayan Pal Address of Applicant :D-6 Type-5 Faculty house Gautam Buddha University Greater Noida UP Uttar Pradesh India 2)Nidhi Singh 3)Leena Singh
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Satya Narayan Pal
(33) Name of priority country	:NA	2)Nidhi Singh
(86) International Application No	:NA	3)Leena 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 :

Traditional way to kill locust is by the chemical spray which is harmful not only for the human beings but also for other living organisms. Some of the chemical sprays are so harsh and strong that they even make the plants or tree dry. An Electrical Solution for Killing Locust proposed is nature friendly and non-pollutant. The device is appropriate for killing locusts in the nationwide farming. This device will only kill the targeted locust and no other. This device will target unlimited area within limited time, hence completing the task very quickly. The device consists of five layers, out of which three are conducting meshes and two are non conducting insulator layers. For charging a mesh, there is a rectifier circuit, converting AC to DC and charging battery. The DC voltage is then converted to a high frequency AC voltage using a transistor and a step-up transformer. The voltage level is further increased to a desired level by using voltage multiplier circuit. A high voltage of 2000 to 3000 V is introduced in inner mesh and because of potential difference between inner and outer mesh locust explode when it strikes the mesh. The device consists of a rechargeable battery which can be recharged again and again. The device can be used with the help of drone to hit the targets. A drone can lift the charged mesh and move around in the affected area to kill locust. A horn is also added to the mesh to make sound to distract the locust and make them fly in case they are sitting on the crops. The weight of the device will depend on the size of the mesh and material used for insulation. The present invention can kill the locust efficiently in low cost and no harm to crops.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024215 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR TEXT RECOGNITION FROM NATURAL SCENE IMAGES

(51) International classification	:G06K 9/62 G06K 9/32 G06K 9/00	(71) Name of Applicant : 1)University of Petroleum and Energy Studies Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Alok Aggarwal
(33) Name of priority country	:NA	2)Deepak Chandra Bijalwan
(86) International Application No	:NA	3)Dr. Adarsh Kumar
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 :

Embodiments of the present disclosure provide systems and methods for text recognition and interpretation from natural scene images. According to one embodiment, a system (100) is configured to receive at least one image from an image sensor and define a Region of Interest (ROI) for the at least one image based on text character localization. The system (100) extracts features from the ROI based on a set of feature vectors, each feature vector of the set of feature vectors forming an identity of a character of a set of characters, and classifies the extracted features to identify corresponding character from the set of characters using a pre-trained classifier. The system (100) then forms one or more words based on the identified set of characters by using character localization coordinates. (FIG. 1 will be the reference figure).

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

(54) Title of the invention : LOW-COST GSM BASED SMART IRRIGATION SWITCH WITH 3 TO 1 SELECTOR

(51) International classification	:G08C 17/02 H04N 21/41 H04B 1/38	(71)Name of Applicant : 1)Dr Arti Vaish Address of Applicant :Department of Electronics and Communication Engineering, Ansal University University, Gurgaon Haryana India 2)Antim Dev Mishra 3)Dr Vikas Singh Bhadoria 4)Dr Garima Goswami 5)Dr Pankaj Kumar Goswami 6)Probeer Sahw
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Arti Vaish 2)Antim Dev Mishra 3)Dr Vikas Singh Bhadoria 4)Dr Garima Goswami 5)Dr Pankaj Kumar Goswami 6)Probeer Sahw
(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 :

Electrical appliance is controlled with a switch that regulates the electricity to electrical devices. As a reason of the latest technological advances, automation and wireless control of devices has becoming more popular. This project puts forth the equipment, which enables users to control their home appliances using their cellular phone. It shows the construction and working of the device to control the home appliances with wireless based on GSM networking and microcontroller. Initially an authenticated signal is sent from the user's cellular phone via Global System for Mobile Communication (GSM) network to the phone, which is fixed to the equipment. This signal or code consists of the information about the function or action to be taken place i.e. what appliance should be turned off or turned on. The receiver phone receives a SMS message that is send from the user's phone and then sends it to the GSM modem, which in turn sends the output digital signal to the microcontroller. Then the microcontroller, based on the received signal, controls the different relays connected through automatic phase selector and triggers the required appliance. There are huge technological advancements in wireless communication like Infra-red and Bluetooth which mostly took place in the recent years shows that the further improvements are in fact possible to make our life more easy and comfortable. Having wireless control of almost all the things in a person's life is a growing interest and many systems are developed providing such controls. So based on this idea we have designed a control system which is based on the GSM technology that effectively allows farmers to control their water pump from home to the desired location. Because of this system, there is no need for a person to physically present to switch on/off the water pump. Here our main objective is to design a system that will enable us to have a complete control of the interface on which it is based. When coming to usage, it's a layman task and everybody can use this from their regular smart phone without any mobile application simply send a SMS to the sim card which is already inserted in the GSM board. System programming done in such a way that it can track the pump status. User send and SMS through the mobile phone and GSM network to receive some text that is parsed and used to toggle the relay. For security reasons, the sketch checks the number of the sender and this information must be stored in the Arduino. Initially user don't know the status of the relays and therefore the sketch uses atoggle" approach, where each SMS received with 1 or 2 as text toggles the status of the corresponding relay. An SMS is sent back with the messageRelay <number>, state: <0 or 1>". Looking at the history of the messages user should be able to keep track of the relays status. This way invention is highly feasible for commercial and non-commercial applications.

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024263 A

(19) INDIA

(22) Date of filing of Application :10/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HIGH PERFORMANCE DYE SENSITIZED SOLAR CELLS USING NOVEL POLYMER QUASI SOLID ELECTROLYTES

(51) International classification	:B82Y 30/00 H01G 9/20 A61Q 19/00	(71)Name of Applicant : 1)Dr. Muralidhar Nayak Bhukya Address of Applicant :Department of Electrical Engineering, School of Engineering & Technology, Central University of Haryana, Jant-Pali, Mahendergarh, Haryana, India- 123031.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. S. Vinoth
(33) Name of priority country	:NA	2)Dr. Muralidhar Nayak Bhukya
(86) International Application No	:NA	3)Dr. V Chandra Jagan Mohan
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 proposed disclosure provides a quasi-solid electrolyte dispersed with one-dimensional inorganic nano-fiber fillers in the blended polymer nano-fibers matrix and its implication in Dye-Sensitized Solar Cells (DSSC). The inorganic fillers dispersed into the blended polymer matrix aids to disrupt crystallinity and results in betterment of its intrinsic properties that favors conductivity. The dispersal of one-dimensional TiCh nano-fiber fillers blended in the blended polymer matrix depicts best device performance and highest conductivity efficiency of 8.02 percentage in the Dye-Sensitized Solar Cells (DSSC). Further, the inorganic nano-fiber fillers dispersed blended polymer matrix provides fast ion conduction. FIG. 1

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024275 A

(19) INDIA

(22) Date of filing of Application :10/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : DENTAL MOBILE UNIT

(51) International classification	:A61C 1/00	(71) Name of Applicant : 1)32INTACT HEALTHCARE PRIVATE LIMITED
(31) Priority Document No	:NA	Address of Applicant :Sector 2, House Number 354,
(32) Priority Date	:NA	Jankipuram Extension, Lucknow. Uttar Pradesh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)ISHIT KAROLI
Filing Date	:NA	2)ISHAANT KAROLI
(87) 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 invention is a well equipped, technical, mechanical and lawful compliant mobile dental unit. It provides stability, insulation and sterile environment inside the unit such that various dental/medical procedures including but not limited to modern dental/medical/cosmetic/aesthetic surgeries, procedures, treatments, diagnosis, trauma management, follow-ups and all other possible modern treatments could be done inside this invention at the comfort of patient's home/doorstep or workplace or at any other place around the globe, The dentist on wheels/ dental mobile unit features the latest state of the art equipments, instruments and machinery that forms a unique combination of Laser - Equipments, Instruments, Machinery and Materials, Trauma Management - Equipments, Instruments, Machinery and Materials, and Dental/Medical - Equipments, Instruments, Machinery and Materials such that it is able to provides all types of required modern necessary dental, aesthetic, cosmetic, medical attention and trauma management.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024349 A

(19) INDIA

(22) Date of filing of Application :10/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MODULAR SUPERCONDUCTING FAULT LIMITING SYSTEM.

(51) International classification	:A61K 38/17 H01M 4/73 G06K 9/62	(71) Name of Applicant : 1)INTER-UNIVERSITY ACCELERATOR CENTRE, NEW DELHI Address of Applicant :Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, India-110067 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)KAR, Dr. Soumen;
(32) Priority Date	:NA	2)KUMAR, Mr. Rajesh;
(33) Name of priority country	:NA	3)DATTA, Dr. Tripti Shekhar;
(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 modular superconducting fault current limiting system comprises a modular supporting frame, one or more superconducting elements accommodated in the frame, each of said superconducting elements is extending from current entry end of the frame to current exiting end of the frame and plurality of struts on the frame to carry the superconducting elements spaced apart from each other. The struts are sequentially placed and fixed on the frame to orient each superconducting element within the supporting frame in hairpin winding pattern ensuring each turn in said hairpin winding pattern is positioned straight with a bend at either end and thus each adjacent straight portion of the superconducting element carries current in opposite direction to minimize induction effect.

No. of Pages : 38 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024435 A

(19) INDIA

(22) Date of filing of Application :10/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD AND SYSTEM FOR COMPUTING COMPUTERIZED NUMERICAL CONTROL (CNC) TOOLPATH FOR TURNING MACHINES

(51) International classification	:G05B 19/4093 G05B 19/41 G05B 19/4103	(71) Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi-110019, India Delhi India (72) Name of Inventor : 1)CHAKRABORTY, Tathagata 2)KRISHNAMURTHY, Hariharan 3)BHONGE, Manoj Wasudeo
(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 :

A method and system for computing computerized numerical control (CNC) tool path for turning machines is disclosed. The method comprises creating a two-dimensional part profile and computing an offset of the section of the two-dimensional part profile to be machined. The offset is computed at a distance equal to the tool nose radius. The offset curves are sampled at a predefined number of equally spaced points and a tool is placed oriented according to a preset tool angel at each of the equally space points on the offset curve. Gouge and collision are checked at each point. The tool is further rotated at each gouge and collision in order to avoid gouge or collision if possible. Further, each contiguous point set, where there is still a gouge or collision, is replaced with a convex cover. Finally consecutive points with the same angle or with angles changing at a constant rate are grouped into singles segments thus computing a final CNC tool path. [To be published with Figure 1]

No. of Pages : 25 No. of Claims : 18

(54) Title of the invention : A VESSEL AND A METHOD FOR PURIFYING WATER AND MONITORING QUALITY OF WATER

(51) International classification	:G01N 33/18 G01N 1/40 C02F 1/44	(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 Uttar Pradesh India 2)MASSACHUSETTS INSTITUTE OF TECHNOLOGY
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SEN, Indra
(33) Name of priority country	:NA	2)HARSHA, K Sri
(86) International Application No	:NA	3)HANHAUSER, Emily Barret
Filing Date	:NA	4)KARNICK, Rohit N
(87) International Publication No	: NA	5)HART, Anastasios John
(61) Patent of Addition to Application Number	:NA	6)BONO, Michael
Filing Date	:NA	7)VAISHNAV, Chintan H.
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A vessel (110) and a method (200; 300) for purifying water and monitoring quality of water are disclosed. The vessel (110) comprises a housing (112) for storing water, an opening (114) for filling and emptying water from the housing (112), and a sorbent provided in the housing (112). The sorbent is exposed to water for adsorption of the analytes onto the sorbent for removing chemical or biological analytes from water. Water free of analytes is emptied through the opening (114) while retaining the sorbent in the housing (112). Further, the vessel (112) is filled with a solution to remove the analytes from the sorbent for recycling the vessel. Further, concentration of the analytes in the solution is analyzed (308) for monitoring quality of water. [To be published with FIG. 2A]

No. of Pages : 29 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024463 A

(19) INDIA

(22) Date of filing of Application :11/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD TO MONITOR REAL TIME MENTAL HEALTH OF USER

(51) International classification	:A61B 5/16 G06Q 10/00 H04L 29/08	(71)Name of Applicant : 1)Dr. Ritika Wason Address of Applicant :G-21,Pocket I, DDA-SFS Flats, Naraina Vihar, New Delhi-110028 Uttar Pradesh India 2)Dr. Prashant Singh Rana 3)Dr. Vishal Jain 4)Dr. Mandeep Kaur 5)Dr. Mayank Kumar Goyal 6)Dr. Pradeep Kumar Gupta 7)Dr. Punit Gupta
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Ritika Wason 2)Dr. Prashant Singh Rana 3)Dr. Vishal Jain 4)Dr. Mandeep Kaur 5)Dr. Mayank Kumar Goyal 6)Dr. Pradeep Kumar Gupta 7)Dr. Punit Gupta
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(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	

(57) Abstract :

The present disclosure relates to monitoring real-time mental health, the method comprising: receiving behavior data of a user; storing the received behavior data; receiving new behavior data of a user; comparing the stored behavior data with a new behavior data to compute the difference between the stored behavior data and new behavior data; and transmitting a notification to one or more computing devices, if the deviation is observed between the stored behavior data and the new behavior data. (Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024470 A

(19) INDIA

(22) Date of filing of Application :11/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN ELECTRICAL RACKET

(51) International classification	:A63B 60/08 A63B 49/08 H01B 7/282	(71)Name of Applicant : 1)GraphicEra Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement Town, Dehradun, 248002, Utrakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. VIJAY KUMAR
(32) Priority Date	:NA	2)Dr. Atul Bisht
(33) Name of priority country	:NA	3)Dr. Amit Raj Singh
(86) International Application No	:NA	4)Dr. Anil Singh
Filing Date	:NA	5)Dr. Kunwar Vikram
(87) 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 electrical racket for killing microorganisms and insects. The electrical racket comprising a frame body holding a metallic sheet; and b. a grip region accommodating a power control unit that is electrically connected to said metallic sheet; wherein said grip comprises a digital temperature controller and a plurality of sensors; and wherein said metallic sheet is heated by electricity received from said power control unit to kill said microorganisms. The metallic sheet is coated with the nano-composite, which can be titanium oxide, zinc oxide or mixture thereof.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024622 A

(19) INDIA

(22) Date of filing of Application :11/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR AIDING VISUALLY IMPAIRED PERSON

(51) International classification	:G06Q 10/08	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Kanak Manjari
(32) Priority Date	:NA	Address of Applicant :Alpine C-205, Grand Omaxe, Sector- 93B, Noida 201304 Uttar Pradesh India
(33) Name of priority country	:NA	2)Madhushi Verma
(86) International Application No	:NA	3)Gaurav Singal
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Kanak Manjari
(61) Patent of Addition to Application Number	:NA	2)Madhushi Verma
Filing Date	:NA	3)Gaurav Singal
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to the field of an intelligent tool for visually impaired person. The disclosure includes steps of: capturing an image of at least one object through an image sensor; determining first information, wherein the first information corresponds to at least one captured object; determining second information, wherein the second information corresponds to position of the at least one captured object; and notifying the user about the determined first information and second information. (Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024658 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM FOR REDUCING AEROSOL & VIRAL LOAD IN EXHALED AIR USING MODIFIED VENTURI MASK

(51) International classification	:B65D 83/20	(71) Name of Applicant : 1)DR. SANJAY SHARMA
(31) Priority Document No	:NA	Address of Applicant :Director, CNS Hospital, B Block, Lohia
(32) Priority Date	:NA	Nagar, Meerut- 250002, Uttar Pradesh, India Uttar Pradesh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)DR. SANJAY 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 present invention is related to a system (10) for reducing aerosol & viral load in exhaled air using modified venturi mask (1). The objective of the present invention is to solve the problems in the prior art related to adequacies in techniques and technologies in reducing aerosol & viral load in environment. Particularly, the objective of the present invention is to controlling the infection and effectively reducing the viral load of the environment thus reducing the spread of the disease through performing disinfection of exhaled air from the patient.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024660 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : NOVEL CORONAVIRUS IN HUMAN VACCINE FORMULATION AND PROCESS TO PREPARE THEREOF

(51) International classification	:C07K 14/005 A61K 39/00 C12N 7/00	(71) Name of Applicant : 1)Divyesh Yadav Address of Applicant :Hno.216, Kapashera, New Delhi- 110037, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Divyesh Yadav 2)Yeshu Vashisht
(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 :

Since 1960s human Coronaviruses is found in the noses of people with the common cold. This invention wherein focuses on the necessity of providing vaccination to the novel coronavirus pandemic found in humans by not only breaking its lipid bilayer hence inactivating the proteins present in the virus but also breaking its RNA sequence , which was a major reason in not able to create human coronavirus vaccine. Due to the wide spread of novel coronavirus there is a rising demand for human coronavirus vaccine. This invention also focuses on making it cost efficient yet feasible for industrial application yet for mass production.

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

(54) Title of the invention : REMOTE SKIN MONITORING SYSTEM AND METHOD THEREOF

(51) International classification	:H04L 29/06 H04L 9/32 H04L 9/06	(71)Name of Applicant : 1)THE REGISTRAR, GRAPHIC ERA (DEEMED TO BE UNIVERSITY) Address of Applicant :566/6, Bell Road, Clement Town, Dehradun €“ 248002, Uttarakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Shuchi Juyal
(32) Priority Date	:NA	2)Sachin Sharma
(33) Name of priority country	:NA	3)Aditya Harbola
(86) International Application No	:NA	4)Amal Shankar Shukla
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 remote skin monitoring system using blockchain approach to privately and securely share medical data over the network and its method thereof. The method comprises the steps of sending, by a sender, an authentication request containing data encrypted with the public key of a receiver (Rpbk) and unique identification key (Ssk) of the sender to a cluster head; receiving, by the cluster head, the authentication request and verifying the unique identification key (Ssk) of the sender against the list of unique identification keys stored in the storing unit of the cluster head; acknowledging, by the cluster head, the sender via a pop-up Short Service Message (SMS) in case authentication is successful and transfer of data by the sender; creating an encrypted block and generating a hash value by the cluster head, wherein the encrypted block stores its own hash value, hash value of its all previous blocks and data transferred by the sender. The transmission and storage of encrypted block, by the cluster head, to the cloud network communicatively connected to the sender via communication network; verification and validation of encrypted block by preselected miners authorized by the cluster head; linking of new block in the chain of blocks to form a blockchain and sending of verified block to the receiver by overlay network of the cloud and decryption, by the receiver, of verified block to extract data by using private key (Rpvk) of the receiver. Reference: Fig. 2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024779 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM AND METHOD FOR CLOUD- CONTROL REAL-TIME WASTEWATER DISPOSAL MANAGEMENT FOR MANAGING FLOODS IN CITIES

(51) International classification	:G06F 17/50	(71)Name of Applicant :
(31) Priority Document No	:NA	1)THE REGISTRAR, GRAPHIC ERA (DEEMED TO BE UNIVERSITY)
(32) Priority Date	:NA	Address of Applicant :566/6, Bell Road, Clement Town, Dehradun €“ 248002, Uttarakhand, India Uttarakhand India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Himanshu Rai Goyal
Filing Date	:NA	2)Kamal Kumar Ghanshala
(87) International Publication No	: NA	3)Sachin Sharma
(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 a system and method for cloud-based IoT control on real-time basis for the criticality of the wastewater deposit network for managing floods in the cities. The system as accordance to the present invention use technology, mathematical model and programmed application in order to satisfy the need to incorporate waste water drainage systems in any urban area in order to prevent and stop floods.

No. of Pages : 29 No. of Claims : 9

(54) Title of the invention : CORONAVIRUS DIAGNOSTIC REAGENTS TREATMENT KITS AND SHARE THE PATIENT REAL TIME LOCATION, CONDITION USING DEEP LEARNING PROGRAMMING.

(51) International classification	:A61K 39/215 C12Q 1/70 C12N 7/00	(71)Name of Applicant : 1)Dr. K. RAMKUMAR Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SRM UNIVERSITY, DELHI - NCR, HARYANA-131029, INDIA. E-MAIL: ramkumar1975@gmail.com Haryana India
(31) Priority Document No	:NA	2)Dr. KAVITHA J.C (ASSISTANT PROFESSOR)
(32) Priority Date	:NA	3)Ms. GAGANDEEP KAUR (ASSISTANT PROFESSOR)
(33) Name of priority country	:NA	4)Ms. VINITHA J.C (ASSOCIATE PROFESSOR)
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. K. RAMKUMAR
(87) International Publication No	: NA	2)Dr. KAVITHA J.C (ASSISTANT PROFESSOR)
(61) Patent of Addition to Application Number	:NA	3)Ms. GAGANDEEP KAUR (ASSISTANT PROFESSOR)
Filing Date	:NA	4)Ms. VINITHA J.C (ASSOCIATE PROFESSOR)
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention "CORONAVIRUS DIAGNOSTIC REAGENTS TREATMENT KITS AND SHARE THE PATIENT REAL TIME LOCATION, CONDITION USING DEEP LEARNING PROGRAMMING" is a system for making the process of registering at and receiving treatment in a healthcare and other required facility. The invented system utilizes computer communications network-based systems, hardware software, application S/W various input and output stations, and a patient identification card (e.g., Loyally Card) that work together to allow (a) providers to direct, track, and optimize the efficiency of patient activity and (b) patients to have ready access to their status and, in some cases, control of the healthcare process. The outbreak of a virulent respiratory virus, now known as Severe Acute Respiratory Syndrome (SARS), was identified in Hong Kong, China, USA, India (1920-2020) and a growing number of countries around the world in 2019-2020. The invention relates to nucleic acids and proteins from the SARS coronavirus. These nucleic acids and proteins can be used in the preparation and manufacture of vaccine formulations, diagnostic reagents, kits, etc. The invention also provides methods for treating SARS by administering small molecule antiviral compounds, as well as methods of identifying potent small molecules for the treatment of SARS. The invention also relates to diagnostic reagents, kits (comprising such reagents) and methods which can be used to diagnose or identify the presence or absence of a SARS virus in a biological sample. The invention further includes non-coding SARS viral polynucleotide sequences, SARS viral sequences encoding for non-immunogenic proteins, conserved and variant SARS viral polynucleotide sequences for use in such diagnostic compositions and methods. The invention further relates to vaccine formulations comprising one or more SARS virus antigens and one or more other respiratory virus antigens. Additional respiratory virus antigens suitable for use in the invention include antigens from influenza virus, human rhinovirus (HRN), parainfluenza virus (PIN), respiratory syncytial virus (RSN), adenovirus, metapneumovirus, and rhinovirus. The additional respiratory virus antigen could also be from a coronavirus other than the SARS coronavirus. Preferably, the additional respiratory virus antigen is an influenza viral antigen.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024947 A

(19) INDIA

(22) Date of filing of Application :13/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM FOR CHECKING HEALTH OF A PERSON AND PROVIDING SANITIZATION AT THE ENTRANCE

(51) International classification	:A61B 5/00 G07C 9/00 G06Q 50/22	(71) Name of Applicant : 1)GraphicEra Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement Town, Dehradun, 248002, Uttrakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)UMANG GARG
(32) Priority Date	:NA	2)VAIBHAV KAUSHIK
(33) Name of priority country	:NA	3)NAVIN GARG
(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 checking health of a person and providing sanitization to the person at the entrance at the entrance. The system 100 comprises mainly a sanitizing station 101A and a monitoring station 101B. The monitoring station 101B can be connected with said sanitization station 101B wirelessly. The sanitization station 101B comprises a metal detector stand 102, a sanitizing device 103, a plurality of sprinklers 105, a plurality of tubes 106, an infrared counter sensor 107, and an indicator 108. The sanitizing device 103 has couple of electronic components, a plurality of motion sensors, an infrared thermometer, a servo motor, an ultrasonic sensor, Arduino-UNO, a blood pressure sensor, etc. The system is capable of monitoring includes body temperature of the person, blood pressure of the person, physical condition of the person, and number of persons present in the premises.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024951 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : WE-TOPOLOGY FOR POWER ELECTRONIC CONVERSION

(51) International classification	:H02M 7/483 H01H 33/59 H02M 1/08	(71)Name of Applicant : 1)Dr. Mohammad Ali Address of Applicant :Department of Electrical Engineering, Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh Uttar Pradesh India 2)Dr. Mohd Tariq
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Mohammad Ali
(33) Name of priority country	:NA	2)Dr. Mohd Tariq
(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 concerns a single-phase WE-type electric power electronic converter that comprises of nine unidirectional bipolar and one bidirectional bipolar power semiconductor switches. A single Direct Current (DC) source/load and two auxiliary DC sources that may be capacitors are connected in a closed circuit feeding/draining an Alternating Current (AC) load/source. The ratio between the DC-source/load voltage and the individual auxiliary DC source voltage is always maintained at the ratio of 1:4 to achieve a 13-level output.

No. of Pages : 27 No. of Claims : 6

(54) Title of the invention : COVID PREVENTIVE AUTOMATED ENTRY POINT (COPAEP)

(51) International classification	:G06Q 30/02 G16H 50/80 G07C 9/00	(71)Name of Applicant : 1)Sandip Kumar Chaurasiya Address of Applicant :Asst. Professor Department of Cybernetics School of Computer Science University of Petroleum and Energy Studies Dehradun Uttarakhand-248007 Uttarakhand India
(31) Priority Document No	:NA	2)Harsh Verma
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Sandip Kumar Chaurasiya
(86) International Application No	:NA	2)Harsh Verma
Filing Date	:NA	3)Dr. Arindam Biswas
(87) 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 :

COVID Preventive Automated Entry Point (COPAEP) is an integrated system which incorporates a definite number of subsystems each enabling checks and/or preventive actions against the most obvious symptoms of coronavirus. The invention when deployed at the entry point of the place of human assembly restricts the virus-infected people from entering the premise; and hence, mixing of the covid-infected population and the fit ones can be prevented to lower the further spread of coronavirus. The system includes methods for measuring the body-temperature and coughing of the entrant. It includes a method which detects if the entrant is not in possession of the protective face-mask. In case, any of the aforementioned test disqualify the entrant, an alarming system comes into action intimating the local officials about the situation; otherwise, the entrant is allowed to enter the premise after sanitizing his hands. The present system has been designed with a clear intention of controlling the further spread of coronavirus by identifying and restricting the infected people to visit places of public gathering viz. various government and private institutions, malls, restaurants, theaters and parks etc.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014021376 A

(19) INDIA

(22) Date of filing of Application :21/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A METHOD OF PRODUCING LIGHTWEIGHT CERAMIC SAND PARTICULATES FROM COAL POND ASH AND USE THEREOF

(51) International classification	:C04B0033135000, C04B0033132000, C04B0028020000, C04B0026160000, B28B0001000000	(71)Name of Applicant : 1)DR. ABBAS KHAN Address of Applicant :HERMANNSTRASSE 26, ZWICKAU, GERMANY - 08064 Germany
(31) Priority Document No	:62851156	(72)Name of Inventor : 1)DR. ABBAS KHAN
(32) Priority Date	:22/05/2019	
(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 :

The present invention relates to fabricating lightweight ceramic sand as a building and construction material. More specifically it relates to a novel process of manufacturing sintered synthetic lightweight ceramic sand particulates directly from pond ash and fly ash as a secondary raw material. The said synthetic lightweight ceramic sand can be used as a building material. The novel feature of the invention is to manufacture low cost lightweight sand at high throughput to compete against the fast depleting natural sand and crushed stones.

No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014022674 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : CANNULA FOR PERCUTANEOUS MINIMALLY INVASIVE CANNULATION OF THE VENA CAVA

(51) International classification :B29L 1/00
(31) Priority Document No :20177271.2
(32) Priority Date :28/05/2020
(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

(71)Name of Applicant :

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Address of Applicant :ul. Chmielna 132/134, 00-805

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(72)Name of Inventor :

1)Sanjeev Choudhary

2)Piotr Suwalski

3)Marta Makuch

4)Jacek Olszewski

(57) Abstract :

A plastic tube (1) having three longitudinal chambers, including a main chamber (1a), a first lateral chamber (1a1) and a second lateral chamber (1a2), and at least one reinforced section ensuring constant internal diameter, is equipped from the distal side with a round end (2) narrowing towards the end, in which there are longitudinal holes (4) of a size enabling free venous blood flow, and a balloon (6). Below the balloon a fragment of the reinforced tube section (1) is bent under an angle α of approximately 90° . From the proximal side, the tube (1) ends with a flexible cone (3), sealing the cannula tightly, inside which there is a valve (12) closing the main chamber (1a) and a port (5) for inflating the balloon (6) connected to the first lateral chamber (1a1), in addition, inside the second lateral chamber (1a2) there is a removable stiffener (8), whose distal end in the most extreme position reaches the base of the balloon (6), while the proximal end of the stiffener (8) passing through the cone (3) is led out. In the reinforced part the cannula tube (1) retains shape memory. To be published with figure. 1

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

(54) Title of the invention : BLOWER

(51) International classification	:F04D 25/08, F04D 29/54, F24F 7/007, F24F 13/08, F24F 13/20	(71)Name of Applicant : 1)IRIS OHYAMA INC. Address of Applicant :12-1, Itsutsubashi 2-chome, Aoba-ku, Sendai-shi, Miyagi 9808510 Japan
(31) Priority Document No	:2017-191401	(72)Name of Inventor :
(32) Priority Date	:29/09/2017	1)YAMAMOTO Hideki
(33) Name of priority country	:Japan	2)FUKUMASU Kazuhito
(86) International Application No	:PCT/JP2018/035578	3)ISHIKAWA Hiroshi
Filing Date	:26/09/2018	
(87) International Publication No	:WO/2019/065685	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A blower (1) according to this embodiment is provided with: an air delivery section (2) having an air delivery opening (11) on the front surface side and provided with a grille (12) at the air delivery opening (11); and a support for supporting the air delivery section (2). The grille (12) is provided with a plurality of spirally arranged fins (13). The inner ends (13A) of the plurality of fins (13), which are located near the center (O) of the spiral, protrude further in an air delivery direction (4) than the outer ends (13B) which are continuous with the air delivery opening (11).

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017020954 A

(19) INDIA

(22) Date of filing of Application :18/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HEAT EXCHANGER FOR A MOLTEN SALT STEAM GENERATOR IN A CONCENTRATED SOLAR POWER PLANT (III)

(51) International classification :F28F 9/22, F28D 7/06, F28D 7/16
(31) Priority Document No :17206472.7
(32) Priority Date :11/12/2017
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2018/083579
Filing Date :05/12/2018
(87) International Publication No :WO/2019/115306
(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)COCKERILL MAINTENANCE & INGENIERIE S.A.
Address of Applicant :Avenue Greiner, 1 4100 SERAING
Belgium

(72)Name of Inventor :
1)DETHIER, Alfred
2)WINAND, Stphane
3)LECLOUX, Yves
4)HARZALLAH, Ridha
5)AGNETTI, Ildo
6)BAUTHIER, Thomas
7)DETAILLE, Christopher

(57) Abstract :

A heat exchanger (1), wherein the bundle of parallel U-bent tubes (2) is connected via a connection to a first end, where a first hemispherical bonnet (16) distributes the first fluid to the tubes (2) of the first straight section (9), and to a second end, where a second hemispherical bonnet (16) collects the first fluid from the tubes (2) of the second straight section (10), each said connection being made of a tube sheet (11, 12) which is designed to withstand the difference between the second fluid low pressure inside the intershell space (5) and the first fluid high pressure inside the respective bonnet (16), wherein the tube sheet comprises a circular plate (12) having a central circular orifice and wherein the tube sheet further comprises a hemispherical shell (11) located over said orifice and tightly connected to said circular plate (12), so as to make a physical separation between the first fluid and the second fluid.

No. of Pages : 16 No. of Claims : 20

(54) Title of the invention : ACTUATOR DEVICE FOR VARIABLE-RATIO CLOSING RESISTOR

(51) International classification	:H01H 71/10	(71)Name of Applicant :
(31) Priority Document No	:201811271532.3	1)SHANGHAI SIEYUAN HIGH VOLTAGE SWITCHGEAR CO., LTD
(32) Priority Date	:29/10/2018	Address of Applicant :No. 3399, Hua Ning Road, Minhang District Shanghai China
(33) Name of priority country	:China	(72)Name of Inventor :
(86) International Application No	:PCT/CN2019/100646	1)REN, Huan Huan
Filing Date	:14/08/2019	2)SHEN, Peng Fei
(87) International Publication No	:WO/2020/088035	3)CAO, Ya Zhao
(61) Patent of Addition to Application Number	:NA	4)YE, Hao
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An actuator device for a variable-ratio closing resistor comprises a main bent arm having one end as a fixed end and another end as a free end rotatable about the fixed end when driven by a circuit breaker mechanism. A middle switching point connection rod of a circuit breaker has one end rotatably connected to the main bent arm and another end rotatably connected to a switching point output connection rod of the circuit breaker. The switching point output connection rod of the circuit breaker is installed on a first lateral shifting restriction assembly and is movable only in a specified direction. A closing resistor connection rod has one end rotatably connected to the main bent arm and another end rotatably connected to a connection block. The connection block is installed on a second lateral shifting restriction assembly and is only movable in a direction parallel to the switching point output connection rod of the circuit breaker. A switching point connection rod of the closing resistor is fixedly provided on the connection block. The rotating axes of all the rotatable connections above are parallel to each other and are perpendicular to a shifting direction of the switching point output rod of the circuit breaker. The device meets requirements of different output speeds for different switching points, facilitates expansion of switching points connected in parallel, and improves product reliability. The invention has a simple structure and high stability.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017022526 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ANTENNA MODULE AND ELECTRONIC DEVICE COMPRISING SAME

(51) International classification	:H04M 1/02, H04B 1/40, H01Q 1/24	(71)Name of Applicant :
(31) Priority Document No	:10-2018-0097964	1)SAMSUNG ELECTRONICS CO., LTD.
(32) Priority Date	:22/08/2018	Address of Applicant :129, Samsung-ro, Yeongtong-gu
(33) Name of priority country	:Republic of Korea	Suwon-si Gyeonggi-do 16677 Republic of Korea
(86) International Application No	:PCT/KR2019/010468	(72)Name of Inventor :
Filing Date	:19/08/2019	1)MOON, Heecheul
(87) International Publication No	:WO/2020/040499	2)SEOK, Sangyoup
(61) Patent of Addition to Application Number	:NA	3)SON, Kwonho
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device according to various embodiments of the present disclosure can comprise: a housing comprising a front plate which faces a first direction, a back plate which faces a second direction opposite from the first direction, and a lateral member which surrounds a space between the front plate and the back plate and has at least one part formed from a metal material; a display seen through a first part of the front plate; an antenna module positioned inside the space; and a wireless communication circuit which is electrically connected to the antenna module and is for transmitting and/or receiving a signal having a frequency of 20 GHz to 100 GHz. The antenna module can comprise: a first surface facing a third direction forming an acute angle with the second direction; a second surface facing a fourth direction opposite from the third direction; at least one first conductive element disposed on the first surface or inside the antenna module so as to face the third direction; and at least one second conductive element which is adjacent to the lateral member between the first surface and the second surface and extends in a fifth direction different from the third direction and the fourth direction and facing between the lateral surface and the first part of the front plate. Other embodiments are also possible.

No. of Pages : 58 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017024210 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention :ELECTRONIC DEVICE INCLUDING ANTENNA"

(51) International classification	:H01Q 1/24 H01Q 1/22 H01Q 7/00	(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	:10-2019-0019557	(72)Name of Inventor :
(32) Priority Date	:19/02/2019	1)Heecheul MOON
(33) Name of priority country	:Republic of Korea	2)Sangyoup SEOK
(86) International Application No	:PCT/KR2020/001537	3)Kwonho SON
Filing Date	:31/01/2020	4)Inkuk YUN
(87) International Publication No	: NA	5)Sunghyup LEE
(61) Patent of Addition to Application Number	:NA	6)Heeseok JUNG
Filing Date	:NA	7)Chongo YOON
(62) Divisional to Application Number	:NA	8)Jongchul CHOI
Filing Date	:NA	

(57) Abstract :

An electronic device includes a first non-conductive cover defining a first surface of the electronic device, a second non-conductive cover including a first portion defining a second surface of the electronic device, and a second portion defining one portion of a lateral surface of the electronic device, a conductive frame defining an other portion of the lateral surface of the electronic device, and an antenna module, wherein the antenna module is positioned so that the one surface is substantially perpendicular to the second surface at a position within a specified proximity to the lateral surface of the electronic device and is configured to transmit and/or receive a signal through the lateral surface. FIG. 1

No. of Pages : 73 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017024245 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : STEEL SECTION ROLLING MILL

(51) International classification	:B21B 45/02, B21B 1/088, B21B 1/14	(71)Name of Applicant :
(31) Priority Document No	:PCT/IB2017/058332	1)ARCELORMITTAL
(32) Priority Date	:22/12/2017	Address of Applicant :24-26 Boulevard d'Avranches 1160
(33) Name of priority country	:PCT	Luxembourg Luxembourg
(86) International Application No	:PCT/IB2018/060349	(72)Name of Inventor :
Filing Date	:19/12/2018	1)HOUOT, Romain
(87) International Publication No	:WO/2019/123320	2)MARY, François
(61) Patent of Addition to Application Number	:NA	3)MAS, Patrick
Filing Date	:NA	4)BROSIUS, Gilles
(62) Divisional to Application Number	:NA	5)DIDIER, Pierre
Filing Date	:NA	6)BOUL, Stphane

(57) Abstract :

A section mill (10) for the rolling of steel sections is disclosed. The section mill comprises a universal mill stand (12) and an edger mill stand (14) for rolling a workpiece (18) in a plurality of back-and-forth passes into a steel section having a web and one or more flanges. The section mill further comprises a cooling arrangement (16) for cooling the workpiece while it undergoes rolling during one or more of the passes. The cooling arrangement comprises a cooling box (20) having a spray head (21) with spray openings (22) for spraying jets of pressurized cooling liquid against the workpiece. The cooling arrangement further comprises an actuator (38, 34) configured to move the cooling box relative to the stand frame (58) of the universal mill stand and/or of the edger mill stand for adjusting a distance between the spray openings and the workpiece.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921005963 A

(19) INDIA

(22) Date of filing of Application :15/02/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : TWO WHEELER FULLY EQUIPPED DOOR TO DOOR WASHING VEHICLE

(51) International classification	:B60S0003040000, B60S0003060000, B60S0003000000, G06F0016280000, D06F0039140000	(71) Name of Applicant : 1)Yashwant S Budhwani Address of Applicant :Orbital Empire 203 Sterling tower, Jaitala Road, Ekatmata Nagar, Nagpur-440036 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Yashwant S Budhwani
(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 :

ThisTwo Wheeler Fully Equipped Door to Door Washing Vehicle" overcomes the present washing methods that are very costly, slow & use old outdated traditional technology. But with our project, we can increase efficiency & reduce the time & cost taken to wash vehicles. Also, it is a very compact system which makes it easy to go anywhere, probably the most portable vehicle washing service concept in today's competitive market.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921010007 A

(19) INDIA

(22) Date of filing of Application :14/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN OPTICAL DEVICE FOR OPHTHALMIC SURGICAL AID

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71)Name of Applicant : 1)DR. AMOL DIWAKAR KADU Address of Applicant :906, B-WING, JAYANTI NAGARI-5, BEHIND K-SERA SERA MINIPLEX, BESA ROAD, MANISH NAGAR, NAGPUR, MAHARASHTRA 440034 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DR. AMOL DIWAKAR KADU
(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 :

ABSTRACT Title: AN OPTICAL DEVICE FOR OPHTHALMIC SURGICAL AID The present invention relates to a device. More specifically it relates to an optical device that can be used as ophthalmic surgical aid. The device has to be mounted on microscope with the clamp (210), the light source (101) is mounted with the clamp (204) on the hollow shaft (203), the hollow shaft is mounted into a slit (201^{€™}) on a hollow arc (201) and the hollow shaft (203) can be rotated clockwise and anti-clockwise via a knob (202), the light source (101) is powered by wire passing through the hollow shaft (203) which can be connected directly to power socket or dry batteries. The light source (101) consists of slit mechanism (102) which determines the amount of light transmitted by the light source on the object, the slit mechanism (102) is controlled with the knob (103) present on the light source (101). Referring FIG 1:

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921015203 A

(19) INDIA

(22) Date of filing of Application :16/04/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : POLYMERIC NANOCOMPOSITES FOR WOUND HEALING APPLICATIONS.

(51) International classification	:C12C 11/00	(71)Name of Applicant : 1)SEEMA TIWARI Address of Applicant :903, ROSE,PARK SPRING, PORWAL ROAD, PUNE-411 015, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	2)NIDHI JAIN
(32) Priority Date	:NA	3)ANIKET
(33) Name of priority country	:NA	4)YASH MISHRA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)SEEMA TIWARI
(87) International Publication No	: NA	2)NIDHI JAIN
(61) Patent of Addition to Application Number Filing Date	:NA :NA	3)ANIKET
(62) Divisional to Application Number Filing Date	:NA :NA	4)YASH MISHRA

(57) Abstract :

The present invention generally relates to the field of nanomaterials composites, and in particularly relates to a process for preparation of nanocomposite chitosan, gelatin with azadirachta indica which can be used for effective wound healing application. Chitosan solution was prepared in acetic acid and azadirachta indica extract and gelatin solution were added in it. This solution was heated at 50 degree celcius and cooled for 30 min . This mixture was transferred to a petridish. A polymeric film was formed and dried at room temperature for 48 hours. This film was characterised and antibacterial study was carried out which shows excellent result.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921019858 A

(19) INDIA

(22) Date of filing of Application :20/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : DEVICE FOR MACHINE TO IMPROVE WORK ACCESSIBILITY

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71)Name of Applicant : 1)Mazagon Dock Shipbuilders Limited Address of Applicant :Dockyard Road, Mazagon, Mumbai - 400010, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)TIWARI, Dhananjay Kumar
(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 :

Described is an extension device (200) for a machine to improve an accessibility of work. The device (200) is fitted in the tool post (108) of the machine based on requirement. The device (200) comprises an extension bar (202), a strengthening plate (204), a tool holding device (206) and a plurality of vertical members (208). Wherein the extension bar (202) is preferably made in hexagonal shape and the strengthening plate (204) is preferably made in quadrangular shape. Further, the vertical members (208) are also fastened to the extension bar (202) in perpendicular direction to the extension bar (202). Also, the tool holding device (206) is fastened to the extension bar (202) such that a tool in the tool holding device (206) performs machining during machine operation.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921019869 A

(19) INDIA

(22) Date of filing of Application :20/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM FOR LUBRICATION OF ROCKER ARM OF ENGINE

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)Mazagon Dock Shipbuilders Limited Address of Applicant :Dockyard Road, Mazagon, Mumbai - 400010, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)GHARDE, Vishal Devendra
(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 lubrication oil system for rocker arm assembly comprises rocker arm (10), RALO (Rocker Arm Lubrication Oil) tank (1), pump (3) and conical seal (12). RALO tank (1) supplies lubrication oil to rocker arm (10) through the pump (3). The conical seal (12) with elastomers is placed at the opening of cylinder head (9) through which the push rod (14) is passing. The conical seal (12) prevents rocker arm (10) lubrication from falling into crankshaft (19), due to which engine lubricating oil system is improved and enhances life of connecting rod (18) and main bearings.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921030939 A

(19) INDIA

(22) Date of filing of Application :31/07/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : FAUCET CONTROL STRUCTURE

(51) International classification	:E03C0001050000, E03C0001020000, E03C0001040000, F16K0027040000, F16K0031620000	(71) Name of Applicant : 1)Prabodh Hanumant Gadagkar Address of Applicant :B-501, Radhika Co-operative housing society, Parvatinagar, Sinhgad Road, Pune 411 030 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Prabodh Hanumant Gadagkar
(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 :

ABSTRACT A faucet control structure is disclosed. The faucet control structure includes a first control valve, configured to provide inflow of water. The faucet control structure also includes a second control valve, configured to provide time-controlled inflow of water. The faucet control structure also includes an inlet unit, configured to provide inflow of water from one or more adjoining tubes corresponding to the position of the first control valve. The faucet control structure also includes a valve body, configured to provide a connecting place for the one or more adjoining tubes with the faucet. The enables stopping of over-use of water. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021004133 A

(19) INDIA

(22) Date of filing of Application :30/01/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PORTABLE ONE HAND OPERATED FOAM CANNON GUN

(51) International classification	:G06Q0010060000, H02J0003000000, C11D0003000000, H04W0088160000, H04W0074000000	(71) Name of Applicant : 1)Yashwant Budhwani Address of Applicant :plot no 39, sumit nagar, jaitala rd Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Yashwant Budhwani
(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 :

This €Portable one hand operated foam cannon Gun€ • overcomes the problem of present foam gun that are costly, heavy, expensive to repair, wastage of resources and time taking to wash the vehicle. But with our project, we can provide a foam gun at a very low cost, using less resources, easily repairable, portable, improve efficiency and reduce the time taken to complete the wash. Also, it is very small in size and therefore can be kept anywhere and can be ported easily anywhere, anytime.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021009619 A

(19) INDIA

(22) Date of filing of Application :06/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : 1. TITLE OF THE INVENTION.THIS INVENTION RELATES TO TRAFFIC CONTROL SYSTEMS AND, MORE PARTICULARLY, TO A €SMART€ • SYSTEM THAT MANAGES TRAFFIC SIGNAL STATUS BASED ON THE TRAFFIC DENSITY AT EACH LANE ACROSS THE JUNCTION, THIS CAN ALSO PREDICT THE AREAS WHICH CAN HAVE HIGH TRAFFIC RULES VIOLATION AND PROBLEMS DUE TO HIGH TRAFFIC IN FUTURE.

(51) International classification	:G08G0001080000, G08G0001010000, G08G0001040000, G08G0001096700, G08G0001065000	(71)Name of Applicant : 1)Harsh Sachin Pardeshi Address of Applicant :N-11 -E - 24/6 Mayur Nagar , Hudco Aurangabad Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Harsh Sachin Pardeshi
(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 invention deals with the smart traffic signaling across the junction so that the lane with higher density gets more time for efficient traffic flow by avoiding jams. The no. of vehicles is detected using the existing traffic camera with OpenCV and TensorFlow, the real-time photo is been taken from the traffic camera and the no. of vehicles is counted using Haar-cascade and Tensorflow object detection API. Then the threshold value is been checked, if the no. of vehicles is less than the threshold value then the signal is set to green for that time which is equal to the (no. of vehiclestime for vehicles to pass), else the signal is set to green for the (threshold time time for vehicle to pass). The no. of vehicles whenever counted are then sent to the txt file, which is then processed by another program which plots the graphs using matplotlib of the traffic density across the junction. When the signals are set to red and there is the motion detected in the ROI(Region Of Interest) the neural network gets triggered which is trained using letter recognition training data set and MNIST data set which identifies the no. of the vehicle if it is less than 75% confident about the predicted number then the footage is stored to folder named"VERIFICATION NEEDED", else the number of vehicles along with the violation footage is saved to theFINE DISTRIBUTION folder, a so that appropriate actions can be taken against the owners.

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

(54) Title of the invention : INVITRO CYTOTOXIC STUDY OF ALOE VERA WHOLE LEAF EXTRACT ON PBMC AND BREAST CANCER CELL LINE

(51) International classification	:A61K 31/00	(71) Name of Applicant : 1)DR. T. Y. SATHEESHA
(31) Priority Document No	:NA	Address of Applicant :C CHINNAPPA LAYOUT, DIBBUR
(32) Priority Date	:NA	ROAD, VAPASANDRA, PUNE - 411033, MAHARASHTRA,
(33) Name of priority country	:NA	INDIA. Maharashtra India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)DR. T. Y. SATHEESHA
(87) 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 :

Many anticancer drugs currently used have an origin from natural sources. It is reported that in between 1981 and 2006, 47.1% of the 155 clinically approved anti-cancer drugs, were unmodified natural products or their semi-synthetic derivatives or even synthesized molecules based on natural models. Aloe vera is one of the oldest known medicinal plants. Studies show that the Aloe vera leaf extract is effective on various cancers like colon cancer, neuroectodermal cancer but there is very less sufficient data on breast cancer. Therefore, we evaluate the effect of Aloe leaf extract on breast cancer cell. Phytochemical test of the extract .confirms presence of Alkaloids, Phenolic compounds. The antioxidant activity of such phytochemicals are very useful to inhibit cancer . MTT Assay was performed on PBMC and MCF-7 cell line with aloe vera extract. Experimental data suggest that Aloe vera whole leaf extract significantly increases the cytotoxic effect on human breast cancer cell compare to normal cell (PBMC). Our study evaluated specific cytotoxic effect of Aloe vera extract on human breast cancer cell and further study is required to develop Aloe vera extract base drug for the treatment of breast cancer.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021012026 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART INVESTING & TRADING THE STREES FREE WAY

(51) International classification	:G06F19/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. ATUL R. JUNNARKAR
(32) Priority Date	:NA	Address of Applicant :AUTOTRADEZY TECHNOLOGIES
(33) Name of priority country	:NA	PVT. LTD., OFF. NH4, WARJE, PUNE - 411058,
(86) International Application No	:NA	MAHARASHTRA, INDIA. Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. ATUL R. JUNNARKAR
(61) Patent of Addition to Application Number	:NA	2)DR. PRASHANT SHAH
Filing Date	:NA	3)DR. APARNA A. JUNNARKAR
(62) Divisional to Application Number	:NA	4)MR. PRADEEP NAIR
Filing Date	:NA	5)MR. KETAKI VINAY JAMBHALI

(57) Abstract :

Over the past years the stock market has become a vital field of research. An intricate and tricky job in financial markets such as a stock market is to foretell the course of direction of financial markets. A variety of methods have been built, remodelled and exploited by many associates and specialists. A range of system procedures have been applied on financial time series to get a hold of the trend and predict. Kyoung-jae Kim and Won Boo Lee (Kyoung-jae Kim W. , 2004) developed a feature transformation method using genetic algorithms. This approach reduces the dimensionality of the feature space and removes irrelevant factors involved in stock price prediction. This approach performed better when compared with linear transformation and fuzzification transformation. Another research done on genetic algorithms (GAs) by Kyoung-jae Kim I. H., 2000 (Kyoung-jae Kim I. H., 2000) again to predict stock market is to use a GA not only to improve the learning algorithm, but also to reduce the complexity of the feature space. Thus this approach reduces dimensionality of the feature space and enhances the generalizability of the classifier. Frank Cross (Cross, 2009) tries to find relationships that could exist between stock price changes on Mondays and Fridays in the stock market. It has been observed that prices.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021012029 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ATTRIBUTE BASED DISCOVERY ARCHITECTURE FOR DEVICES IN INTERNET OF THINGS (IOT)

(51) International classification

:G06F11/00

(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)DR. H. VENKATESH KUMAR

Address of Applicant :A1-304, C/O SHREYANS SOCITY,
PUNAWALA, PUNE - 411033, MAHARASHTRA, INDIA.
Maharashtra India

2)DR. NAGESH K. N

(72)Name of Inventor :

1)DR. H. VENKATESH KUMAR

2)DR. NAGESH K. N

(57) Abstract :

ABSTRACT: A device discovery architecture based on attributes characterizing devices in heterogeneous and dynamic environment of internet of things (IoT) is proposed. The attributes can be physical or logical. A new probabilistic flood search algorithm is also presented that allows to find devices in distributed environment. The algorithm automatically discovers queried device in the network choosing optimal path. The attribute based discovery architecture is protocol agnostic and hence can be implemented on top of any network layer protocol. As a proof of concept, an implementation of the attribute based discovery architecture with a probabilistic flood search algorithm is discussed. Some preliminary results are also presented that demonstrate the feasibility and efficacy of the proposed architecture.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021012031 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : FUZZY GENETIC BASED ENERGY EFFICIENT CLUSTER HEAD SELECTION TECHNIQUE IN WIRELESS SENSOR NETWORK.

(51) International classification	:H04W 16/00	(71)Name of Applicant : 1)DR. ARUN BIRADAR Address of Applicant :C/O. M.G. BIRADAR, NEAR ASHOK CHOWK, DEGALUR ROAD, UDGIR, LATUR - 413517, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	2)DR. BIRADAR SHILPA
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. ARUN BIRADAR
(61) Patent of Addition to Application Number	:NA	2)DR. BIRADAR SHILPA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WSN is a sensor network in which the communication between nodes and sink nodes take place with the help of routing but before routing the cluster formation is performed which categorize the nodes in small groups and elect a representative node from each and every cluster individually. Clustering makes the network performance quite efficient but still the cluster formation process have some lacks like sometimes it affects the energy consumption level of the nodes which indirectly decreases the lifetime of the network. Therefore various clustering techniques have been developed such as LEACH, HEED, Q-LEACH, etc. and various authors also conducted the research to enhance the traditional clustering protocols by using some advance optimization technique. Previous researches that had been done by various authors in this field are reviewed under this study and it is observed that in traditional QABC (Quantum Artificial Bee Colony) algorithm considers all the relevant factors to enhance the cluster formation process but the way of evaluating the fitness function was quite poor because only the distance factor was considered for this purpose. Therefore this study provides a solution as the optimization of the fitness function can be done using the FIS (Fuzzy Inference System). The affect of suggested mechanism on the network is represented in the form of results in this study.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021016563 A

(19) INDIA

(22) Date of filing of Application :17/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : INTELLIGENT METHODS FOR DETECTING CORONAVIRUS USING RNA, DNA AND SHARE THE REAL TIME LOCATION USING IOT.

<p>(51) International classification :C12Q0001700000, C12Q0001689000, C12Q0001687200, C12Q0001685100, C12Q0001683000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number:NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. PRASHANT J GAIDHANE (ASSOCIATE PROFESSOR) Address of Applicant :INSTRUMENTATION ENGINEERING DEPARTMENT. GOVERNMENT COLLEGE OF ENGINEERING JALGAON, MH-425001, INDIA. E-Mail: pjgaidhane@gmail.com Maharashtra India</p> <p>2)DR. SHAMIMUL QAMAR (PROFESSOR OF COMPUTER ENGINEERING)</p> <p>3)DR. JYOTI RAWAT (ASSISTANT PROFESSOR)</p> <p>4)RISHABH (ASSISTANT PROFESSOR)</p> <p>5)DHARMENDRA KUMAR ROY</p> <p>6)RIFAQAT ALI (DEPARTMENT OF MATHEMATICS)</p> <p>(72)Name of Inventor :</p> <p>1)DR. PRASHANT J GAIDHANE (ASSOCIATE PROFESSOR)</p> <p>2)DR. SHAMIMUL QAMAR (PROFESSOR OF COMPUTER ENGINEERING)</p> <p>3)DR. JYOTI RAWAT (ASSISTANT PROFESSOR)</p> <p>4)RISHABH (ASSISTANT PROFESSOR)</p> <p>5)DHARMENDRA KUMAR ROY</p> <p>6)RIFAQAT ALI (DEPARTMENT OF MATHEMATICS)</p>
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(57) Abstract :

INTELLIGENT METHODS FOR DETECTING CORONAVIRUS USING RNA, DNA AND SHARE THE REAL TIME LOCATION USING IOT. ABSTRACT The invention €INTELLIGENT METHODS FOR DETECTING CORONAVIRUS USING RNA, DNA AND SHARE THE REAL TIME LOCATION USING IOT€ • provides a method for rapid identification and quantitation of bacteria (Covid19) by amplification of a segment of bacterial nucleic acid followed by analysis by mass spectrometry. The compositions provide for characterization of the molecular masses and base compositions of bacterial nucleic acids which are used to rapidly identify bacteria. The invention is directed to, inter alia, methods of identification of one or more unknown coronaviruses (Covid19) in a sample by obtaining coronavirus RNA from the sample, obtaining corresponding DNA from the RNA, amplifying the DNA with one or more pairs of oligonucleotide primers that bind to conserved regions of a coronavirus genome which are flanked a variable region of the coronavirus genome, determining the molecular masses or base compositions of the one or more amplification products and comparing the molecular masses or base compositions with calculated or experimentally determined molecular masses or base compositions, wherein one or more matches identifies the unknown coronavirus. Also The invention is also directed to methods of tracking the spread of a specific coronavirus comprising: obtaining a plurality of samples containing a specific coronavirus from a plurality of different locations, identifying the specific coronavirus in a subset of the plurality of samples using the method described in the paragraph above, wherein the corresponding locations of the members of the subset indicate the spread of the specific coronavirus to the corresponding locations. And also the invention is also directed to pairs of primers wherein each member of each pair has at least 77% sequence identity with the sequence of the corresponding member of any one of the following intelligent primer pair sequences: SEQ ID NOs: 5:6, 7:8, 9:8, 9:10, 11:8, 11:10 or 9:10. The invention is also directed to individual primers within each of the primer pairs described herein. Using Internet of things (IoT) Covid19 Detected information share local and global data base accordingly the counting of covid19 increase and decrease.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021016767 A

(19) INDIA

(22) Date of filing of Application :18/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN IMMUNO-KIT FOR DETECTING H-FABP FOR MYOCARDIAL INFARCTION

(51) International classification	:G01N0033680000, G01N0033920000, G01N0033558000, A61B0005145900, G01N0033533000	(71) Name of Applicant : 1)Dr. Alok Pandya Address of Applicant :Department of Physical Sciences, Institute of Advanced Research, Gandhinagar Gandhinagar Gujarat INDIA 382426 Gujarat India
(31) Priority Document No	:NA	2)Anjani Prajapati
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Dr. Alok Pandya
(86) International Application No	:NA	2)Anjani Prajapati
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 immuno-kit for detecting H-FABP for myocardial infarction. The present invention relates to the field of diagnostics and more particularly, relates to diagnostic kit detecting heart fatty acid binding protein (h-FABP) for early detection of myocardial infarction. The rapid flow based point-of-care Immuno-Kit for the early detection of Acute Myocardial Infarction (AMI) by means of Heart type fatty acid binding protein (h-FABP) as biomarkers. According to the present invention the detection kit is a point of care test kit optimized with various parameters such as buffer composition, the quantity/concentration of antibodies detected, sample volume, gold nano-conjugates volume and sensitivity of the kit.

No. of Pages : 29 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021017195 A

(19) INDIA

(22) Date of filing of Application :22/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROTECTIVE DEVICE FOR HEAD, NECK AND FACE

(51) International classification :A62B0017040000,
A41D0013120000,
A61F0015000000,
A62B0017000000,
G21F0003020000

(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

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(72)**Name of Inventor :**
1)Dr Mugdha P Mankar

(57) Abstract :

ABSTRACT PROTECTIVE DEVICE FOR HEAD, NECK AND FACE A protective equipment essentially used as a shield to protect the head, neck and face region of the wearer from contaminants in the air. The protective equipment comprises a generally cylinder shaped lightweight transparent body portion- a unison of front lying and back lying half shields attached by separable adhesive means. It includes a crescent shaped semi-rigid adjustable head belt to engage the head of the wearer to the body portion. The body half shields support flexible and impervious front lying and back lying neck covering means on their individual concave lower edges. Individual neck covering means are attached together by separable adhesive means. A contracted transversely positioned air vent, the sole mean for air entry into the body portion is positioned specifically at the inferior end of the back lying half shield. Separable adhesive means and finger holding means facilitate easy and contamination free dismantling for removal. A container and a dispenser are provided to easily dispense the protective equipment.

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

(54) Title of the invention : AUTOMATIC SANITIZED FOR PORTABLE ELECTRONIC EQUIPMENT.

<p>(51) International classification :A61L0002100000, A61L0002240000, G06F0001160000, H04M0001020000, A61L0002000000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)DR. PANKAJ KUMAR SRIVASTAVA (PRINCIPAL) Address of Applicant :ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE-412115, MH, INDIA. E-mail: principal.sot@isbm.ac.in E-mail: pankoo74@gmail.com Maharashtra India 2)MR. SURAJ RAJENDRA JAGTAP 3)MR. GAUTAM GUPTA(SENIOR MANAGER,TATA MOTORS LTD.) 4)MR. AAYUSH MANGAL 5)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS) 6)GEH RESEARCH LLP(FOUNDER €“PROF. DR. BIPLAB KUMAR SARKAR)</p> <p>(72)Name of Inventor : 1)DR. PANKAJ KUMAR SRIVASTAVA (PRINCIPAL) 2)MR. SURAJ RAJENDRA JAGTAP 3)MR. GAUTAM GUPTA(SENIOR MANAGER,TATA MOTORS LTD.) 4)MR. AAYUSH MANGAL 5)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS) 6)GEH RESEARCH LLP(FOUNDER €“PROF. DR. BIPLAB KUMAR SARKAR)</p>
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(57) Abstract :

AUTOMATIC SANITIZED FOR PORTABLE ELECTRONIC EQUIPMENT. ABSTRACT My Invention €AUTOMATIC SANITIZED FOR PORTABLE ELECTRONIC EQUIPMENT€ • is A sanitizer for sanitizing a portable electronic equipment is provided, the sanitizer having a base including a Covid-19,cavity for receiving the electronic equipment, at least one ultraviolet radiation source for emitting ultraviolet radiation into the , Virus ,Covid-19,cavity, a cover cooperating with the base, the cover moving between an open position wherein the electronic equipment can be inserted into or removed from the Virus, covid-19, cavity and a closed position wherein the Virus, Covid-19,cavity is enclosed so as to substantially maintain the ultraviolet radiation within the Virus, covid-19, cavity, and a controller for enabling the ultraviolet radiation source to be activated only when the cover is closed after the electronic equipment auto sanitized under 1-Minute.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : AN INTELLIGENT BIOMETRIC SYSTEM (IBS) EMBEDDED IN WIFI MODEM TO SECURE ACCESS CONTROL

(51) International classification	:G06K0009000000, G06F0021320000, G07C0009000000, F41A0017060000, H04N0007180000	(71)Name of Applicant : 1)Puri Vishal Vaijinath Address of Applicant :Department of Information Technology, Sinhgad College of Engineering, S. No. 44/1, Off. Sinhgad Road, Vadgaon Budruk, Pune, Maharashtra 411041. Maharashtra India
(31) Priority Document No	:NA	2)Dr. A. Ramesh Babu
(32) Priority Date	:NA	3)Neelam Puri
(33) Name of priority country	:NA	4)Binu Dennis
(86) International Application No	:NA	5)Rajakumar B. R.
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Puri Vishal Vaijinath
(61) Patent of Addition to Application	:NA	2)Dr. A. Ramesh Babu
Number	:NA	3)Neelam Puri
Filing Date	:NA	4)Binu Dennis
(62) Divisional to Application Number	:NA	5)Rajakumar B. R.
Filing Date	:NA	

(57) Abstract :

The present invention discloses an intelligent biometric system (IBS) embedded in the Wi-Fi modem, which comprises a camera for biometric verification. The main contribution of the present invention is to secure the Wi-Fi modem from an unauthorized user. The IBS stores the authorized user's facial images, fingerprint, and iris. So, when the unauthorized user turns on the Wi-Fi in their personal device to access the modem without permission, then the camera from their device will automatically capture the user's face and sends the data to the system admin as a notification alert. The matcher matches the received data with the stored data to determine whether the user is an authorized or unauthorized person. Thus, this present invention secures the Wi-Fi connectivity from an unauthorized person. [To be published with Figure.1]

No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021020210 A

(19) INDIA

(22) Date of filing of Application :13/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN AUTOMATED SPACE FARMING APPARATUS AND MECHANISM FOR MOISTURE REGENERATION USING IN-SITU RESOURCE UTILIZATION

(51) International classification	:A01G0031020000, A01G0009240000, A01G0009029000, C12M0001000000, A01G0031000000	(71) Name of Applicant : 1)Mr.Pratik Mishra Address of Applicant :201 Ratan Central,Dr. B.A. Road,Parel, East Mumbai, Maharashtra India 400012 Maharashtra India 2)Mrs.Gauri Sunil Kadam
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr.Pratik Mishra
(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 :

An automated space farming apparatus and mechanism for moisture regeneration using in-situ resource utilization is described. In the said apparatus as shown in FIG. 1, MEMS fuel cell stacks are encapsulated within the plant growing unit to maintain the required water cycle for plants. The process starts with electrolysis of water (powered by EPS) producing hydrogen and oxygen fed to the fuel cell to generate water and electricity. The water is supplied to plant growing incubator and electricity is used to recharge the batteries. Excess of carbon-dioxide is removed by reduction chamber and is used for microbial growth for incubator, as nutrients for the plants. The positioning of stacks within the growing unit helps to avoid water transportation losses and the use of FRP material for the payload structure helps to reduce overall weight, thereby making the entire system economical, sustainable with increased efficiency in terms of productivity of plantation.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021021104 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR REGENERATION OF ELECTRICAL ENERGY FROM AN EXISTING SOURCE OF ELECTRICITY

(51) International classification	:H02K0007180000, H02J0007140000, B60W0020000000, F03G0007080000, H02N0011000000	(71) Name of Applicant : 1)ROHIT KIRAN GAVALI Address of Applicant :FL.NO15,MITRASADAN SOCIETY, PATWARDHAN BAUG,ERANDWANE,PUNE-411004, STUDENT , VIT PUNE Maharashtra India 2)BHAKTI D. KADAM
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ROHIT KIRAN GAVALI
(33) Name of priority country	:NA	2)BHAKTI D. KADAM
(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 the regeneration of the electrical energy from the existing source of electricity. The invention mainly focuses on the regeneration of the electrical energy from the waste rotational energy from the rotating devices like ceiling fans air conditioners, and air condensers etc. The system for regeneration of electrical energy from an existing source of electricity includes a direct current (DC) dynamo generator adapted to generate current for regeneration of the electrical energy. The present invention will save electricity to a greater extent and allow energy to be reused.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021021394 A

(19) INDIA

(22) Date of filing of Application :21/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : €A DECONTAMINATION DEVICE FOR DECONTAMINATING OBJECTS€ •

(51) International classification :A61L0002100000,
A61L0002240000,
A61L0009200000,
A61L0002220000,
A61L0002180000

(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)Dr.Manish Unnithan
Address of Applicant :Office no.2,shreenivas classic,above
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(72)**Name of Inventor :**
1)Dr.Manish Unnithan

(57) Abstract :

Accordingly, a decontamination device for decontaminating various objects is disclosed. A decontamination device comprising of; housing including one or more ultraviolet C lights configured to kill germs; a light source with more than 2.0 millijoule per cm sq intensity of UVC light; the enclosure including a box type stain less steel structure with aluminum sheet for reflection of Uvc light; a protective lid for protection of inner box type structure; safety holder for holding while operating the device; industrial exhaust fans for creating negative pressure; and a timer knob to set the time required for disinfection and hydrogen peroxide fumigation system.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021021484 A

(19) INDIA

(22) Date of filing of Application :21/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM AND METHOD FOR PREPARING ALTERNATE DRY FUEL FROM HAZARDOUS WASTE FOR USE IN CEMENT INDUSTRY

(51) International classification	:F23G0005440000, B09B0003000000, G06Q0010060000, F23G0005027000, B01F0015020000	(71) Name of Applicant : 1)Girish R Luthra Address of Applicant :Luthra Niwas A/1, Jantanagar Society, New Civil Road, Bhatar, Surat 395002, Gujarat , India Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Girish R Luthra
(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 discloses a system and a method for preparing alternate dry fuel for use in cement industry from hazardous waste materials. The system (100) of the present invention includes a feeding apparatus (200) which receive the hazardous waste materials, a mixer (300) configured to crush, blend, and homogenize the hazardous waste materials to obtain a blend, a screening and discharging apparatus (400) configured to receive, and screen the blend and discharge selective final blend to a packaging unit (406). The system of the present invention also includes a safety unit (500) which includes a hazardous fluid detecting and treating apparatus (502), and a fire detection and extinguishing apparatus (504). The feeding apparatus, the mixer, the screening and discharging apparatus, the safety unit, and a power supply are connected to and in data communication with a processor (600). The present invention minimizes human intervention, and hence reduces associated health risks. [FIG 1]

No. of Pages : 42 No. of Claims : 10

(54) Title of the invention : A SYSTEM FOR DETECTION AND TRACKING OF SUSPICIOUS PERSONS IN CROWD

<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>:G06K0009000000, H04N0005232000, H04N0007180000, G06T0007246000, G06F0003010000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. Raj Gupta Address of Applicant :912 -A Sudama Nagar Behind Gautam Ashram, Indore, Madhya Pradesh - 452009 Madhya Pradesh India</p> <p>2)Ms. Chhaya Porwal</p> <p>3)Ms. Pooja Gupta</p> <p>4)Dr. Varsha Sharma</p> <p>5)Mr. Upendra Singh</p> <p>6)Prof. Sunita Varma</p> <p>7)Mr. Vivek Sharma</p> <p>8)Mr. Mukul Shukla</p> <p>9)Mr. Rishi Porwal</p> <p>10)Mr. Amit Chaudhari</p> <p>(72)Name of Inventor :</p> <p>1)Ms. Pooja Gupta</p> <p>2)Mr. Rishi Porwal</p> <p>3)Mr. Vivek Sharma</p> <p>4)Mr. Upendra Singh</p> <p>5)Prof. Sunita Varma</p> <p>6)Mr. Amit Chaudhari</p> <p>7)Dr. Varsha Sharma</p> <p>8)Ms. Chhaya Porwal</p> <p>9)Mr. Raj Gupta</p> <p>10)Mr. Mukul Shukla</p>
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(57) Abstract :

A SYSTEM FOR DETECTION AND TRACKING OF SUSPICIOUS PERSONS IN CROWD The present invention is a system and method for detection and tracking of one or more suspicious persons in crowd. The method comprising capturing one or more images by one or more cameras; pre-processing the captured one or more images for removing noise in said one or more images; detecting one or more features of the pre-processed image by the processing module; transferring the captured images and abnormal condition information by the processing module to a frame module, image tracking module, and face detection module; generating a frame to locate and detect one or more persons in the received captured image by the frame module; tracking and estimating the motion of the captured images by the image tracking module; detecting age and identifying the gender of the one or more persons by the face detection module; analyzing and mapping the data of the frame module, image tracking module and face detection module with the predetermined detection and tracking data of the one or more suspicious persons by an image analyzing module; generating the one or more alert signal on the detection of the one or more suspicious persons. Figure 1

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

(54) Title of the invention : GEMSTONE VERIFICATION UNIT

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71)Name of Applicant : 1)SAHAJANAND TECHNOLOGIES PRIVATE LIMITED Address of Applicant :A1, Sahajanand Estate, Wakharia Wadi, Near Dabholi Char Rasta, Ved Road, Surat, Gujarat 395004, India Gujarat India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)OZA, Chirag Dineshchandra
(33) Name of priority country	:NA	2)GAJJAR, Munjal Dhirajlal
(86) International Application No	:NA	3)VAISHNANI, Piyush Himmatbhai
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT GEMSTONE VERIFICATION UNIT A gemstone verification unit that performs verification of gemstones in an automated manner includes a rotatable plate 102, an image capturing device 106, a sorting mechanism 108, and a processing unit 110. The rotatable plate 102 receives the gemstones, affixed to the gemstone holders, in a slot 104 at a homing position. The image capturing device 106 is configured to capture images of the gemstones at an imaging position. The sorting mechanism 108 is configured to sort the gemstones based on conformance of the images of the gemstones with pre-requisite characteristics for gemstones at a sorting position. The processing unit 110 is operably coupled to the rotatable plate 102, the image capturing device 106 and the sorting mechanism 108, where the processing unit 110 controls the rotatable plate 102, the image capturing device 106 and the sorting mechanism 108.

No. of Pages : 23 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021021787 A

(19) INDIA

(22) Date of filing of Application :24/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : BLOCKCHAIN IMPLEMENTED VENDING MACHINE FOR REGULATING SUBSIDIZED FOOD DISTRIBUTION (PUBLIC DISTRIBUTION SYSTEM IN INDIA).

(51) International classification	:H04L0009320000, H04L0029060000, G06Q0020380000, G06Q0020360000, G06Q0020020000	(71)Name of Applicant : 1)Rucha Anil Shinde Address of Applicant :193/4 Malhar Peth, Satara Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Rucha Anil Shinde
(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 relates to Blockchain implemented vending machine for regulating subsidized food distribution in India. The main object of the invention is to provide a digitized system which addresses issues related to improvement in the governance, by allowing self-regulation™. The system empowers citizens through features of transparency, decentralization and accountability. With Blockchain, all the credentials of the beneficiary will get verified against smartcard issued as a token of Ration Card as well as all the transactions at fair Price Shops will be recorded in the Blockchain along with time stamp which makes it tamperproof. The present invention restricts misuse of subsidized grain. All valid beneficiaries will get benefited by their allocated subsidized food on time and in authenticated way and corruption in the system will get eliminated. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the proposed Ration Distribution System.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021021900 A

(19) INDIA

(22) Date of filing of Application :26/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM FOR DELIVERING HIGH SPEED INTERNET

(51) International classification	:G06F0016957000, G06F0017240000, G11C0005000000, B23K0037020000, H04B0010800000	(71) Name of Applicant : 1)AVADUTH KUMBHAR Address of Applicant :Gurushrda Shivdarshan Colony Vishrambag, Sangli 416415 Maharashtra Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)AVADUTH KUMBHAR
(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 system for delivering high speed internet. A system (100) for delivering high speed internet is provided. The system (100) comprises of a plurality of primary data input modules (108a, 108b), a first data module (116), a second data module (118), a processor (120) and a primary data output module (114). The first data module (116) comprises of a first data receiving module (202), a signal amplifying module (204) and a first data transmitting module (206). The second data module (118) comprises of a second data receiving module (208) and a second data transmitting module (210) coupled with the primary data output module (114). The first data module (116) is positioned at a predetermined close proximity with respect to the second data module (118), wherein the second data module (118) receives data transmitted from the first data module (116) wirelessly. Reference figure: FIG. 2A

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022072 A

(19) INDIA

(22) Date of filing of Application :26/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HAEMOMETER APPARATUS

(51) International classification :G01N0033720000,
E05F0001120000,
B62B0003020000,
C07K0014805000,
A61K0038420000

(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 :

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2)Jay Bhatt

3)Shah Jainish

4)Krunal Khiraiya

5)H. M. Nimbark

(72)Name of Inventor :

1)Amber Lakhani

2)Jay Bhatt

3)Shah Jainish

4)Krunal Khiraiya

5)H. M. Nimbark

(57) Abstract :

Present invention discloses a stand for sahli[€]™s apparatus for haemoglobin estimation. Present invention provides Box (5) in which all the components which are required for the estimation of haemoglobin can be placed altogether, Guided slot to place apparatus on box (8) is provided for Haemoglobin apparatus (1) to stand and Foldable column (3) with Door hinge (6) and Spring loaded burette gripper (4) is provided. Foldable columns (3) are affixed in Square drilled holes (7) which is provided on the Box (5) to prepare frame like structure. The Light arrangement (Faded LED) (2) is provided at rear side of apparatus from the Box (5) which provides ease to the user as user does not have to move the apparatus from one place to another for better light source to impinge to determine the colour match for the estimation of haemoglobin.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : INTRAVAGINAL VIDEO COLPOSCOPE

(51) International classification	:A61B0010060000, A61B0001303000, A61B0018140000, A61B0001000000, A61B0001040000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Intravaginal Video Colposcope. It is comprising of a cylinder-shaped body with a tubular microscope with LEDs (light emitting diodes) in the upper part and an instrumentation channel fitted in the lower part of the cylindrical body with an output wire with USB output and a switch for controlling the brightness of the LEDs. The device has a tubular video microscope which gives a magnified view of the object; has a video camera with LEDS in the front part with a focus ring for manual focus behind and a wire with a USB output with a switch for controlling the brightness of the LEDs. The device has a channel in the cylindrical body below the microscope, which acts as an instrumentation channel which allows to pass through a variety of instruments such as a biopsy forceps, suction cannula electrocautery probes. The colposcope goes inside vagina and has little trouble for the woman.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022094 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : NEODYMIUM MAGNET FOR TRANSCRANIAL MAGNETIC STIMULATION BY PERMANENT MAGNET THERAPY (TMS-PM)

(51) International classification	:A61N0002000000, A61N0002020000, A61N0001360000, C22C0038000000, A61N0002060000	(71) Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Neodymium magnet for Transcranial Magnetic Stimulation by Permanent Magnet Therapy (TMS-PM). It is a Neodymium magnet of high power enclosed in a stainless-steel casing. The outer stainless-steel casing has a ring welded to the main body. A finger goes into this iron ring to hold the device so that it does not fall during therapy. The magnetic device is used for brain stimulation in variety of neurological conditions such as Cerebral Palsy, Stroke, Mental retardation, abnormalities of speech, depression and migraines. The magnetic device is used for spinal cord stimulation in variety of neurological conditions such as Cerebral Palsy, Spinal cord injury, Impotence, Transverse myelitis, multiple sclerosis, etc. The device for TMS-PM is reported for the first time in medical literature. It is commercialized for a reasonable cost of Rs.10,000.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022095 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : C BAND ULTRAVIOLET FIBER OPTIC DEVICE FOR INTRAVENOUS ULTRAVIOLET LIGHT THERAPY (IVUVLT)

(51) International classification	:A61N0005060000, A61K0009000000, A61K0033200000, A61M0039160000, A61K0039205000	(71) Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Sagar Arvind Jawale
(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 :

C band Ultraviolet Fiber Optic Device for Intravenous Ultraviolet Light Therapy (IVUVLT). In this therapy, a UV light C band wavelength is illuminated into a peripheral vein by a PMMA fiber for the treatment of variety of viral and bacterial infections. Device for Intravenous C band Ultraviolet Light Therapy (IVUVLT) is made up of a quartz UV light source, a power supply, an air- cooling fan, a lens with its holder, a two- way female FC connector, a male FC connector and a PMMA fiber. IVUVLT is going to be effective against vast number of viral infections such as HIV- AIDS, COVID 19, Swine flu, Dengue fever, Japanese encephalitis, Rabies, viral diarrheas, rabies etc. IVUVLT will also be effective against bacterial septicemia, tetanus, meningitis, Diphtheria and against Methicillin-resistant Staphylococcus aureus (MRSA) and systemic fungal infections and molds including on unknown organisms leading to pyrexia of unknown origin (PUO).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022096 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : RIGID VIDEO HYSTEROSCOPE

(51) International classification	:A61B0001303000, A61B0001000000, A61B0001015000, A61B0001060000, A61B0001050000	(71) Name of Applicant : 1)Dr Sagar A Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr Sagar A Jawale
(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 :

Rigid video hysteroscope. It is a 5 in 1 device and is an ingenious merger of a telescope, sheath and irrigation channel cum instrumentation channel with a video camera and LEDs as a light source. The device is made by two stainless steel tubes welded one below another, the upper tube is the camera channel and the tube welded below acts as irrigation channel cum instrumentation channel. A video camera with LEDs is fixed in front of the device in the camera channel and the video signal from the camera is carried by a bunch of electric wires through the camera channel and connected to an analogue to digital converter circuit that converts analogue signal from front camera into a digital signal which is delivered as output by a Male USB pin. The device is used for diagnostic and therapeutic hysteroscopy.

No. of Pages : 11 No. of Claims : 12

(54) Title of the invention : RIGID VENTILATING VIDEO BRONCHOSCOPE

(51) International classification	:A61B0001267000, A61B0001000000, A61B0010040000, A61B0090000000, A61B0005060000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 rigid ventilating video bronchoscope is an instrument which is a 5 in 1 device and is a genius merger of a telescope, LED light source, Ventilating bronchoscope sheath and instrumentation channel which is described for the first time in the medical literature. The device is made by two stainless steel tubes of welded one below the another to each other, the upper one acts as camera channel cum ventilation channel with a ventilation side port and the lower one acts as instrumentation channel. A video camera with LEDs is fitted at the tip of the upper tube with a usb output. The device is used for a variety of diagnostic bronchoscopic procedures such as diagnosis of tracheoesophageal H type fistula, medical lung diseases and can also be used for therapeutic bronchoscopy for removal of bronchial foreign body, biopsy of suspicious lesions, brush biopsy and for bronchial lavage, etc.

No. of Pages : 13 No. of Claims : 11

(54) Title of the invention : FLEXIBLE VIDEO ENDOSCOPE

(51) International classification	:A61B0001000000, A61B0001050000, A61B0001040000, A61B0001070000, H04N0007180000	(71)Name of Applicant : 1)Dr Sagar arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar arvind Jawale
(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 flexible video endoscope is comprising of a video camera with LEDs at the tip with electrical wires a holder containing analogue to digital converter circuit and a male USB pin as output.It is a lightweight device which is 3 in 1 in the nature and is a unique merger of a fiber optic bundle, LED light source and endo-camera of conventional flexible endoscopes and with excellent picture quality due to the €Chip on Tip€ • technology. It has a video camera with LEDs fixed in a tube with water-proof tip and video signal from the camera is carried by a wire and connected to the analogue to digital converter circuit placed in the holder placed at the back end of the device with USB output. The device can perform a variety of diagnostic procedures such as diagnostic esophagoscopy for strictures, foreign bodies, diagnostic bronchoscopies, diagnostic laparoscopy, fistuloscopy, angioscopy, choledoectomy.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022099 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : USB VIDEO OTOSCOPE

(51) International classification	:A61B0001227000, A61B0001000000, A61F0011000000, A61B0005000000, A61B0001060000	(71) Name of Applicant : 1)Dr Sagar A Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr Sagar A Jawale
(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 :

USB Video Otoscope. The USB Otoscope is comprising of a video camera with LEDs (light emitting diodes) fixed in a tube as the body, a holder with USB output and a loop attachment for ear wax removal. The Device comprising of a tube-shaped body with a narrow front part for entering into the ear and it is fixed in a holder attached at the backend of the tubular body of the device. The Device has a video camera fixed at the tip of the device along with LEDs for illumination and electrical wires from the camera pass through the tubular body and are supplied to a male USB pin as output which is fixed in the holder at its back end. The Device has an attachment for ear wax removal which is made up of a thick metal wire with a loop in front with a metal sleeve in the middle and a hook behind.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022100 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ELECTRON GENERATOR DEVICE WITH OXYGEN MASK ATTACHMENT FOR LIFETRON THERAPY

(51) International classification	:A61M0016160000, A62B0018080000, H01M0008065600, H01J0037020000, A23L0002520000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Electron generator Device with Oxygen Mask attachment for Lifetron therapy. The normal healthy air should contain 200 to 800 negative ions per cubic centimetre. But due to air pollution, this number has dropped dramatically. I invented a new therapy called Lifetron therapy which supplements the patient with electrons which are necessary for human life by an Oxygen mask through air or Oxygen. The heart of the machine is an electron generator which creates high voltage to generate electrons and ionize air molecules and Oxygen molecules. These electrons are given to the patient through a carbon brush fixed in Oxygen mask attachment. Electrons and Oxygen molecule saturated by electrons produced by the therapy can neutralize these free radicles. The electrons stimulate Vagal nucleus giving a lot of health benefits. Hence the therapy will be effective against vast majority of diseases of oxidative stress, variety of inflammatory conditions and cancer and ageing.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022101 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ELECTRONIC MICROSCOPE

(51) International classification	:A61B0017340000, A61B0090000000, G02B0021360000, G02B0021020000, A61B0017120000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 electronic microscope is tubular in shape and is made up of a lens assembly, LED ring, focus ring, a video camera chip at the back end with a USB output and LED light controlling button. The microscope is given a video camera with CMOS sensor with high resolution. The camera is illuminated by LEDs. The microscope has a focus ring which moves the lens forwards and backwards and gives a reasonable focus range. The microscope has a lens assembly which moves forward and backwards with the focus ring with good magnification. The microscope can be used as a pathology microscope, in Zoology and for operative procedures in Ophthalmology, Otolaryngology and in plastic surgery for microvascular surgery.

No. of Pages : 13 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022102 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : RIGID VIDEO ESOPHAGOSCOPE

(51) International classification :A61B0017340000,
A61B0017120000,
A61F0002900000,
G09F0013220000,
A61M0013000000

(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)Dr Sagar Arvind Jawale

Address of Applicant :Jawale hospital, Near SBI, Jilha Peth,
Gandhi Nagar, Jalgaon-425001 Maharashtra India

(72)Name of Inventor :

1)Dr Sagar Arvind Jawale

(57) Abstract :

Rigid video esophagoscope. It is comprising of a stainless-steel tube with a blunt obturator in front containing a video camera with LEDs (light emitting diodes) and electrical wires with an analogue to digital converter circuit placed in a plastic holder at the middle of the device with a male USB pin as output with an instrumentation channel and a side port for gas or air insufflation used for the medical procedure called esophagoscopy. The device is further comprising of a stainless-steel tube which accommodates a blunt obturator in the front with a video camera with LEDs attached at the upper end and an instrumentation channel at the lower end. The device can perform a variety of diagnostic procedures such as diagnostic esophagoscopy for strictures, foreign bodies, esophageal varices and therapeutic procedures such as biopsies, dilatation of esophageal strictures etc. It is reported for the first time in medical literature.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022103 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : INFRARED LIGHT DEVICE FOR INFRA-RED-LIGHT THERAPY

(51) International classification	:A61N0005060000, A61K0035120000, A61H0023020000, H04N0005330000, A61K0035280000	(71) Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Infrared Light Device for Infra-Red-Light Therapy. The device for infra -red light therapy is made up of an infra-red-light source LED with a lens and heat sink with a cooling fan. The emitter is an infra- red LED with emission of infra-red light in the range of 700 -1000 nm. It works on a DC power supply which steps down the mains AC supply. The device is used for treatment of variety of inflammatory disease conditions such as allergic bronchitis, arthritis, joint pains, back pains etc. The device can be used for activation of stem cells in stem cell therapy before putting stem cells into the body. The stem cells activated by the infra-red light survive much better and duplicate faster producing more growth factors and cytokines. The device is commercialized at a reasonable cost of Rs.15,000.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022104 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : RIGID VIDEO ARTHROSCOPE

(51) International classification	:A61B0001000000, A61M0027000000, A61B0001317000, A61B0001040000, A61M0003020000	(71) Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Sagar Arvind Jawale
(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 :

Rigid video arthroscope is a 5 in 1 device and is an ingenious merger of a telescope, sheath, irrigation channel and light source with a video camera fitted at the tip of the instrument. It is made by two stainless steel tubes welded side by side to each other. The upper tube acts as a camera channel and the lower tube acts as irrigation channel for the irrigation of fluid during arthroscopy. A nozzle with a Leur lock is welded to the lower tube and the back end. The tube of the irrigation fluid fits and locks into this Luer lock. The device is used for a variety of diagnostic and therapeutic arthroscopic procedures. The device can also be used as a neuroscope which is used for neuro endoscopy of the brain and ventricles. It is particularly used for endoscopic procedure for treatment of hydrocephalus called endoscopic third ventriculostomy.

No. of Pages : 11 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022105 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : USB RETRACTOCAM

(51) International classification :A61B0017000000,
F21V0033000000,
A61B0017020000,
A61B0017320000,
A61B0090000000

(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)Dr Sagar Arvind Jawale

Address of Applicant :Jawale hospital, Near SBI, Jilha Peth,
Gandhi Nagar, Jalgaon-425001 Maharashtra India

(72)Name of Inventor :

1)Dr Sagar Arvind Jawale

(57) Abstract :

USB Retractor. It is a 3 in 1 device which is an ingenious merger of a video camera, LED light source and a retractor designed for minimally invasive open surgery. The small size of the USB Retractor is made up of a stainless- steel metal tube bent at right angles with a video camera and LEDs fitted at the tip. The electrical wires from the video camera pass through the steel tube and are supplied to USB pin as output placed in a holder at the back end of the device. The device is unique and reported for the first time in medical literature. The device is designed for minimally invasive open surgery where open surgeries are possible with a small incision. Various open surgeries which are possible with the device are, Pyeloplasty, pyelolithotomy, suprapubic cystolithotomy, Tubal ligation, Trans umbilical pyloromyotomy, hiatal surgeries, diagnostic laparoscopies, tracheoesophageal fistula repair.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022106 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : RIGID VIDEO PROCTO-SIGMOIDOSCOPE

(51) International classification	:A61B0017120000, A61B0017340000, A61B0017420000, A61M0013000000, A61B0017220000	(71)Name of Applicant : 1)Dr. Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Sagar Arvind Jawale
(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 rigid video Procto-sigmoidoscope. It is a 5 in 1 device which is a merger of a telescope, light source, endo-camera, sheath and instrumentation channel used for the purpose of proctosigmoidoscopy. The device is made up of a main stainless-steel tube with a working length in the range of 5 cm to 50 cm and outer diameter in the range of 3 mm to 30 mm. It has a blunt obturator in front with a camera and LEDs in the upper part and an instrumentation channel in the lower part. The instrumentation channel has a side port for gas insufflation with a nozzle with a Luer lock. The rigid video procto-sigmoidoscopes can do variety of diagnostic procedures such proctoscopy, sigmoidoscopy and therapeutic procedures such as endoscopic biopsy for Hirschsprung[€]™s disease and operative procedures such as polypectomy, coagulation of rectal ulcers, banding of piles etc.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022107 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : DUAL VISION RIGID VIDEO LAPAROSCOPE

(51) International classification	:A61B0001313000, H04N0005232000, H04N0007180000, A61B0001050000, B60R0001000000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Dual Vision Rigid Video Laparoscope. I describe a dual vision rigid video laparoscope with its cable. The device has video cameras fixed at the tip with LEDs for illumination for a zero- degree vision. It also has a side camera with 2 LEDs for a 90- degree vision. The video signal created by the front camera is converted to a video signal by a circuit placed in the holder at the back of the device. The device has a Push Switch fixed in the holder. When pushed in, the switch sets on the front camera and when switched out, it sets on the side camera. The device has a 4- pin connector as output. The cable of the device has male 4 PIN connector on one side as video out and power in socket in the other end. The device can be used for a variety of laparoscopic surgeries.

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

(54) Title of the invention : NON- INVASIVE VAGAL STIMULATION DEVICE

(51) International classification	:A61N0001360000, A61N0001050000, A61H0023020000, A61N0001400000, A61N0002000000	(71) Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Non- Invasive Vagal Stimulation Device. Vegas nerve innervates a lot of deep brain structures such as pituitary gland, pineal gland and nucleus accumbens including a lot of internal organs such as spleen, pancreas, intestines. Hence vagal stimulation leads to stimulations of the above-mentioned organs having a variety of health benefits. The device has an electrical step- down transformer which steps down mains 220 Volt AC supply to a lower Ac current. A two core wire carriers this current to the 2 ECG electrode that deliver current to the left Vagus nerve in neck and another as a control on shoulder. The device can be used for vagal stimulation for variety of indications such as in epileptic seizures, prevention of cluster headaches, depression, Insomnia, anti-ageing purpose, constipation, postoperative paralytic ileus, diabetes mellitus and as a booster of immunity etc.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022109 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : C BAND ULTRAVIOLET LED DEVICE FOR PHARYNGEAL ULTRA VIOLET LIGHT THERAPY (PUVLT)

(51) International classification	:A61N0005060000, H01L0033320000, A61L0002100000, A61M0016040000, A61K0008460000	(71) Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon-425001 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

C band Ultraviolet LED Device for Pharyngeal Ultra Violet Light Therapy (PUVLT). PUVLT illuminates pharynx of the patient with a UV light of germicidal C band for the treatment of variety of upper respiratory tract infections. The device for Pharyngeal Ultra Violet Illumination Therapy (PUVIT) consists of an ultraviolet light emitting diode (LED), fitted in a glass test tube with a metal rod as a heat sink attached behind the LED. The UV LED fitted in the glass tube of the device emits ultraviolet light in C band wavelength (100-280 NM) It has a 140- degree dome shaped lens over it. Pharyngeal Ultra Violet Illumination Therapy (PUVIT) is effective for the treatment of variety of viral, bacterial, fungal upper respiratory infections in children and adults as well as for the infections of external auditory canal and Otitis media.

No. of Pages : 13 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022110 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ELECTRON GENERATOR DEVICE WITH TRANSCUTANEOUS AND INTRAVENOUS ATTACHMENTS FOR LIFETRON THERAPY

(51) International classification	:A61H0023020000, A61K0008600000, H01J0033000000, H01J0037020000, A61M0039060000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

Electron generator Device with transcutaneous and Intravenous attachments for Lifetron therapy. Lifetron therapy delivers electrons to the human body by various modes. In this patent, I am describing the transcutaneous and intravenous modes of delivery of electrons. The device has an electron generator which is really a transformer less voltage amplifier that generates high voltage by cascaded half-wave voltage doublers. The electrons are delivered over one of the radial arteries of the patient by a disposable ECG electrode precisely placed over the radial artery on the wrist. Oxygen molecule in blood gets saturated with 4 electrons and acts as a primary antioxidant neutralizing free radicles and reducing oxidative stress. The therapy can be beneficial to diseases of oxidative stress, cancer and is ant-ageing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022111 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PERSONAL PROTECTION EQUIPMENT (PPE) FOR AIR PURIFICATION

(51) International classification	:F24F0003160000, A62B0007100000, A62B0009000000, B01D0053140000, A62B0018000000	(71)Name of Applicant : 1)PRASANNA DINKAR SOHALE Address of Applicant :103 HIMALAYA PRESTIGE, SBI COLONY, GOPAL NAGAR, NAGPUR Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)PRASANNA DINKAR SOHALE
(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 personal protection equipment (PPE) (100) for air purification is disclosed. The PPE includes an apparatus (102). The apparatus (102) includes a filter (114) and a scrubber unit (108). The filter (114) that is configured to filter the air for removing dust from the air. The scrubber unit (108) that is configured to purify the air before a user (106) breaths the air. The scrubber unit (108) includes a sparger (110) through which the filtered air is pumped and bubbled in a water solution of polymer to trap remaining contaminants in the air and the contaminants free or improved quality air is sent to the user (106) for breathing. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022119 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : C BAND ULTRAVIOLET COLD CATHODE- A DEVICE FOR RECTAL ULTRA VIOLET LIGHT THERAPY (RUVLT)

(51) International classification	:A61N0005060000, A61M0001360000, A61K0009700000, A61B0001060000, A61F0007000000	(71)Name of Applicant : 1)Dr Sagar Arvind Jawale Address of Applicant :Jawale hospital, Near SBI, Jilha Peth, Gandhi Nagar, Jalgaon Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Sagar Arvind Jawale
(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 :

C band Ultraviolet Cold Cathode- A Device for Rectal Ultra Violet Light Therapy (RUVLT). The device is used per rectally on the patient and delivers UV light of C band wavelength which is absorbed by the blood circulating around the rectum. The device is made up of a double core quartz tube cold cathode folded in 180 degrees with its driver circuit and is powered by a rechargeable battery. The device is sterilized by Formalin chamber or Ethylene Oxide gas. It is commercialized for a reasonable cost of Rs.15,000. This therapy is going to be effective against vast number of viral infections such as HIV- AIDS, COVID 19, Swine flu, Dengue fever, Japanese encephalitis, Rabies, viral diarrheas etc. It will also be effective against bacterial septicemia, tetanus, meningitis, Diphtheria and against Methicillin-resistant Staphylococcus aureus (MRSA) etc. It will also be effective against systemic fungal infections and molds.

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022127 A

(19) INDIA

(22) Date of filing of Application :27/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : BAND ADAPTER

(51) International classification :A61C0001070000,
A61C0003030000,
A61C0003060000,
H05K0005000000,
A61C0015040000

(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 :
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Address of Applicant :Flat No. 203, Shraddha Residency
Harishankar Puram, Gwalior, Madhya Pradesh Madhya Pradesh
India
(72)Name of Inventor :
1)SINGHAL, Dr. Monisha

(57) Abstract :

A dental tool (100) for pushing as well as adapting a dental band to a tooth is disclosed. The dental tool (100) includes a connector segment (104), a holding means (102) and an end portion (106). The connector segment (104) includes a first connector end (104^{€™}) and a second connector end (104^{€•}). The connector segment (104) further includes a second portion (104b) having a curved structure. The holding means (102) is connected with the first connector end (104^{€™}) for holding the dental tool (100). The end portion (106) is coupled to the second connector end (104^{€•}). The end portion (106) includes at least one distal curved surface (106a1) and at least one pair of oppositely disposed side surfaces (106c). The at least one distal curved surface (106a2) and the at least one pair of oppositely disposed side surfaces (106c) contact at least one of the tooth or the dental band for pushing as well as adapting the dental band. FIG. 1

No. of Pages : 17 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022482 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A LAPTOP OR NOTEBOOK COMPUTER WITH DUAL FOLDED SCREENS

(51) International classification	:G06F11/00
(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)Morey Nitin Narayanrao

Address of Applicant :Chandramaa, Hardik Colony, Near
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(72)Name of Inventor :

1)Morey Nitin Narayanrao

2)Morey Meena Nitin

3)Patil Satyajit Dinkarrao

4)Khangan Anand Prakash

(57) Abstract :

The present invention relates to a laptop or notebook computer with folded screens. The folded parts are connected with the primary part such that the user can get up to two hundred percent viewable screen in the form of three screens connected to each other than one hundred percent single screen provided in conventional notebook computers. The present invention can be used for viewing different images at a time on separate screens, watching movies on combined screen, playing games with three separate visuals for better enjoyment and more importantly, for working on three separate screens with one or multiple software at a time. This invention provides a combined bigger screen or three separate screens based on the usage with minimum size of the notebook computer.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941010115 A

(19) INDIA

(22) Date of filing of Application :15/03/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN AFFORDABLE COMMUNICATION EQUIPMENT / WARNING SYSTEM FOR INDIAN FISHERMEN

(51) International classification	:H01M1/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
(32) Priority Date	:NA	Address of Applicant :Kattankulathur, Chennai-603203, Tamil
(33) Name of priority country	:NA	Nadu, India Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Ignatius Michael Jihan
(87) International Publication No	: NA	2)Diwakar R. Marur
(61) Patent of Addition to Application Number	:NA	3)Himanshu Tanwar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM AND METHOD FOR ESTABLISHING COMMUNICATION BETWEEN OFFSHORE VESSELS The present disclosure envisages a method for establishing communication from a sender to a recipient offshore vessel selected from a plurality of offshore vessels, said recipient vessel being not in communication range of said sender. The method (300) comprising transmitting a message from sender for onward transmission to intermediary vessel within range of said sender through a sequence of intermediary vessels, sequence being represented by a set $[1, 2, \dots, n]$ where n represents said target vessel and $n-1$ represents said intermediary vessels within range of the target vessel, said sequence representing a computed shortest distance between said sender vessel and said recipient vessel and represents an intermediary vessel within range of source. A system (202) for establishing communication between a plurality of offshore vessels, each of said vessels having a communication device (100) comprising a memory (106), an input means (108), a transceiver (110) and a control unit (112).

No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941048041 A

(19) INDIA

(22) Date of filing of Application :25/11/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : FLEXIBLE AND BIODEGRADABLE POLYMER COMPOSITE FOR SENSING SWEAT GLUCOSE

(51) International classification	:A61B 5/14	(71) Name of Applicant : 1)Anna University Address of Applicant :The Director, Centre for Intellectual Property Rights, CPDE Building, College of Engineering Guindy, Anna University, Chennai-600025, Tamil Nadu, India. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)D.Arivuoli
(61) Patent of Addition to Application Number	:NA	2)Preethi Ramadoss
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
NOT Submitted

No. of Pages : 36 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041009779 A

(19) INDIA

(22) Date of filing of Application :06/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR MEASUREMENT OF OXYGEN SATURATION LEVEL IN HUMAN BLOOD

(51) International classification	:A61B0005145500, A61B0005000000, A61B0005026000, G01N0033180000, G01N0033490000	(71)Name of Applicant : 1)RAJESH KUMAR S Address of Applicant :MEDTRA INNOVATIVE TECHNOLOGIES PVT LTD., 6TH FLOOR, APPLE TOWER, NH BYPASS, PALARIVATTOM, ERNAKULAM €“ 682025, KERALA, INDIA Kerala India
(31) Priority Document No	:NA	2)SAJ SULAIMAN
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)K. GOPALAKRISHNAN
(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 and a method for measurement of oxygen saturation level in human blood are disclosed. The system includes an image receiving subsystem configured to receive one or more infrared images of human body captured by an image capturing device. The system also includes an intensity measurement subsystem configured to measure an infrared intensity absorbed by the human body from the one or more infrared images received by the image receiving subsystem. The system also includes an oxygen saturation determining subsystem configured to determine rate of oxygen saturation in the human body by mapping the infrared intensity measured by the intensity measurement subsystem to one or more predefined oxygen saturation values. FIG. 1

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

(54) Title of the invention : MASTER AND SLAVE FIRE ALERTING SYSTEM AND EXTINGUISHER USING ZIGBEE

(51) International classification	:H04W	(71)Name of Applicant :
(31) Priority Document No	4/08	1)HARSHITHA R E
(32) Priority Date	:NA	Address of Applicant :335/2, VEERABHADRA SWAMY
(33) Name of priority country	:NA	NILAYA, 3 RD CROSS, SHIVAJI NAGAR, COLONY STOP,
(86) International Application No	:NA	NELAMANGALA, BENGALURU RURAL, KARNATAKA,
Filing Date	:NA	INDIA,562123. Tamil Nadu India
(87) International Publication No	: NA	2)DIVYA N
(61) Patent of Addition to Application Number	:NA	3)BRINDA P
Filing Date	:NA	4)E. KALPANA
(62) Divisional to Application Number	:NA	5)ARYALEKSHMI BN
Filing Date	:NA	6)RAJASHEKHAR C BIRADAR
		(72)Name of Inventor :
		1)HARSHITHA R E
		2)DIVYA N
		3)BRINDA P
		4)E. KALPANA
		5)ARYALEKSHMI BN
		6)RAJASHEKHAR C BIRADAR

(57) Abstract :

Extinguishing fire is a challenging task and detecting fire at an earlier stage is essential as it involves the question of life and death. It is just a matter of a few seconds for an entire house or a building to ignite and spread fiercely. Fire accidents will occur rarely, but once it occurs the consequences will be devastating some of the examples are Amazon and Australian bush fires which lead to a lot of loss to the environment. Fire accidents include a lot of property damage, many injuries, and decease of wildlife if action is not taken instantly. The proposed system will help to provide an immediate alert to the concerned authority so that necessary action can be initiated and less damage is made. The system is equipped with an alerting mechanism that operates through a wireless communication medium that helps in detecting fire at an early stage and sends a message about the accident to the nearest fire station alarming within a fraction of time. In the case of commercial and residential buildings along with alerting system it also extinguishes fire by activating the sprinklers. The motive of the proposed system is to rescue people with a minimum human intervention which ensures their safety. This system can be implemented in forest areas, commercial buildings as well as apartments. It also detects the temperature and humidity of a particular place which makes fire extinguisher's job easier. J

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041011252 A

(19) INDIA

(22) Date of filing of Application :16/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : FLAT RECEIVER FOR SOLAR PARABOLIC DISH CONCENTRATOR SYSTEM AND METHOD THEREOF

(51) International classification	:F24S0023700000, F24S0020200000, H01L0031054000, F24S0023790000, F24S0023740000	(71) Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY Address of Applicant :Thiruvettakudy, Karaikal,Puducherry,Indai-609 609 Pondicherry India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR. SENDHIL KUMAR NATARAJAN
(33) Name of priority country	:NA	2)SUSANT KUMAR SAHU
(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 concentrating solar power technologies. More particularly the present invention relates to a flat receiver with double trumpet secondary reflector for solar parabolic dish concentrator system. The flat receiver [20] for solar parabolic dish concentrator system [50] comprises one or more trumpet shaped secondary reflectors [10, 30] and a cooling water unit [40]. One trumpet shaped secondary reflector [10] is attached at the top of the flat receiver [20] and other trumpet shaped secondary reflector [30] is attached at the bottom of the flat receiver [20]. Further the present invention relates to a method of working of the flat receiver for solar parabolic dish concentrator system. FIGURE 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041011253 A

(19) INDIA

(22) Date of filing of Application :16/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SINGLE SLOPE SOLAR DESALINATION STILL USING STAGGERED FINS INSERTED IN PARAFFIN WAX PCM BED

(51) International classification	:F24S0010750000, F28D0020020000, F24S0010400000, C02F0001140000, F24S0080500000	(71) Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY Address of Applicant :Thiruvettakudy, Karaikal, Puducherry, Pondicherry India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR. SENDHIL KUMAR NATARAJAN
(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 invention relates to solar-based desalination. The present invention further relates to a single slope solar desalination unit for desalination of saline water or seawater. Particularly the invention relates to a single slope solar desalination unit, comprising of a transparent glass for solar radiation absorption (20), absorber plate with copper fins (30), a basin chamber for holding phase change material (50), wherein absorber plate comprises of a metal plate with containment portion and with exterior bottom comprising metal fins brazed at the bottom and inserted in phase change material, basin chamber comprising of PCM material (50). FIGURE 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041011254 A

(19) INDIA

(22) Date of filing of Application :16/03/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SOLAR POWERED ELECTRIC LIQUID SPRAYER DEVICE AND METHOD THEREOF

(51) International classification	:B05B0011000000, H02J0007350000, B05B0009080000, A01M0007000000, B05B0009040000	(71) Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY Address of Applicant :Thiruvettakudy, Karaikal, Puducherry Pondicherry India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR. SENDHIL KUMAR NATARAJAN
(33) Name of priority country	:NA	2)ARJUN SINGH K
(86) International Application No	:NA	3)SUSANT KUMAR SAHU
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 liquid sprayer. More particularly the present invention relates to a solar powered electric liquid sprayer device. The solar powered electric water based sprayer device [100] comprises of a housing/frame [40], a photovoltaic panel [20], a battery [50] comprising a charge controller, a liquid tank [30], a diaphragm pump [60], a flexible hose [90], one or more tube connecting units [80] and a sprayer gun [70]. Further the present invention relates to a method of working of the solar powered electric liquid sprayer device. Advantageously, the present invention relates to an electric liquid sprayer which can be operated continuously without charging it separately for hours. FIGURE 1.

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041014858 A

(19) INDIA

(22) Date of filing of Application :03/04/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : UNIDIRECTIONAL ROTATING OCEAN WAVE ENERGY CONVERSION OPEN TURBINE

(51) International classification :F03B0017060000,
F03B0013180000,
F03D0015100000,
B64C0039000000,
F24S0030452000

(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 :
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Address of Applicant :231, Third Street, Narayana Garden,
Thalakudi, Tiruchirappalli, Tamil Nadu, India. Tamil Nadu India

(72)Name of Inventor :
1)ARULAPPAN S. SWAMINATHAN

(57) Abstract :

Disclosed herein is a unidirectional rotating hydraulic turbine rotor assembly (1) for harnessing backward and forward movement of the ocean waves. The hydraulic turbine assembly (1) comprises two hydraulic turbine rotors (2, 3) assembled back to back to horizontal axis shaft (5), a bevel gear placed in between the rotors (2, 3), a vertical axis shaft (4) connected by bevel gears (6) from horizontal axis shaft (5) and an alternator (7) mounted centrally along the vertical axis shaft (4) for producing electricity as shown in FIG. 1. During forward and backward movement of the ocean waves, the direction of rotation of the rotors (2, 3) is unidirectional. The horizontal rotation of the rotors (2, 3) is converted into vertical rotation by the bevel gear (6) and the electrical alternator (7) produces electricity. Advantageously, the rotor receives water blow around all 360 degrees by swivel action.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041021083 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART SANITISER WITH IN-BUILT TEMPERATURE SENSOR FOR SENSING AND REPORTING INDIVIDUAL HEALTH STATUS

(51) International classification	:A61B0005010000, A61B0005000000, G01K0013000000, G01K0001160000, G01J0005280000	(71) Name of Applicant : 1)LIFE9 SYSTEMS PRIVATE LIMITED Address of Applicant :LIFE9 SYSTEMS PRIVATE LIMITED, #301, Prakruthi Apt, 33, BGS Layout, Jakkur, Bangalore - 560 064, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Nagendra Prasad Nonavinakere Anantharamaiah
(33) Name of priority country	:NA	2)Jeyaraman Ponnurangam
(86) International Application No	:NA	3)Murthy Muniyappa
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 :

ABSTRACT SMART SANITISER WITH IN-BUILT TEMPERATURE SENSOR FOR SENSING AND REPORTING INDIVIDUAL HEALTH STATUS The present invention relates to a Smart sanitiser with in-built temperature sensor for sensing and reporting individual health status. The Smart hand sanitiser device includes a thermopile temperature sensor. The thermopile temperature sensor is designed to measure temperature of a user from a distance by detecting infrared (IR) energy emitted from the user. The higher the temperature of the user, the more IR energy is emitted. A compliance report may be generated based on data associated with one or more individuals use of the sanitizer dispenser(s) and infrared temperature sensor. Figure of Abstract: FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041023760 A

(19) INDIA

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

(43) Publication Date : 26/06/2020

(54) Title of the invention : PORTABLE ISOLATION APPARATUS WITH ULTRAVIOLET DISINFECTION

(51) International classification	:A61G 10/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Harinath Aireddy
(32) Priority Date	:NA	Address of Applicant :Assistant Professor, Department of
(33) Name of priority country	:NA	ECE, Alliance College of Engineering and Design, Alliance
(86) International Application No	:NA	university, Anekal, Bangalore-562106, Karnataka, India.
Filing Date	:NA	Karnataka India
(87) International Publication No	: NA	2)Dr. Reeba Korah
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Harinath Aireddy
(62) Divisional to Application Number	:NA	2)Dr. Reeba Korah
Filing Date	:NA	

(57) Abstract :

ABSTRACT: Title: Portable Isolation Apparatus with Ultraviolet Disinfection The present disclosure proposes a portable negative pressure isolation enclosure with multiple chambers that aids to prevent the spread of COVID-19 from patients to health workers. The portable isolation apparatus 100 with ultraviolet disinfection comprises a negative pressure isolation chamber 101, an evacuating duct 102, an irradiation chamber 103, and an air filter 104. The portable negative pressure isolation enclosure with a HEPA filter chamber disinfects the air released from the isolation chamber and reduces the spread of infectious diseases. The portable isolation apparatus is of low cost, reusable, durable, and easy to operate and does not require any expertise to handle. The proposed isolation apparatus inactivates the virus and other contaminants in the air by exposure to UV radiation energy and ensures that no active contaminants escape from the system. The isolation apparatus with ultraviolet disinfection exhausts clean air out of the isolation chamber to the external environment.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041023870 A

(19) INDIA

(22) Date of filing of Application :08/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MACHINE FOR PLUCKING AND BUNDLING OF LEAFY VEGETABLES AND ITS FABRICATION METHOD

(51) International classification	:A22C	(71)Name of Applicant :
(31) Priority Document No	21/02	1)JYOTI SHANKARAPPA SAJJAN
(32) Priority Date	:NA	Address of Applicant :126 L/2, NEAR LAXMI TEMPLE,
(33) Name of priority country	:NA	STATION ROAD, BAGALKOT Karnataka India
(86) International Application No	:NA	2)NAGESH SHREESHAIL GANI
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)JYOTI SHANKARAPPA SAJJAN
(61) Patent of Addition to Application Number	:NA	2)NAGESH SHREESHAIL GANI
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the development of advanced automatic machine or system or instrument or apparatus or device or equipment for harvesting the leafy vegetables. More particularly, the invention relates to the development of advanced automatic machine or system or instrument or apparatus or device or equipment for carrying out the plucking and bundling of green leafy vegetables such as such as coriander, pudina, swiss, chard, spinach, celery, and fenugreek. The invention also pertains to the fabrication method for advanced automatic machine or system or instrument or apparatus or device or equipment for carrying out the plucking and bundling of leafy vegetables such as such as coriander, pudina, swiss, chard, spinach, celery, and fenugreek. It further, relates to practicing the use of advanced automated machine or system or instrument or apparatus or device or equipment by farmers in the field for carrying out the plucking and bundling of leafy vegetables such as such as coriander, pudina, swiss, chard, spinach, celery, and fenugreek.

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

(54) Title of the invention : IOT AND CLOUD BASED AGRICULTURAL DATA MANAGEMENT SYSTEM AND METHOD FOR EFFECTIVE PLANTING AND BREEDING

<p>(51) International classification :G06Q 50/00</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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.S.Prabu Address of Applicant :S/o. Subramani V, Associate Professor & Head , Department of ECE, Mahendra Institute of Technology, Mallasamudram, Namakkal Dt-637503, Tamilnadu Tamil Nadu India</p> <p>2)Dr.M.Rajendiran</p> <p>3)Dr.R.Ganesh Babu</p> <p>4)Dr.J.Stanly Jaya Prakash</p> <p>5)Dr.S.Kannan</p> <p>6)Dr.M.Suganthi</p> <p>7)Dr.S.Balamurugan</p> <p>8)Dr.R.Kathirvel</p> <p>9)K Madumathi</p> <p>10)Dr.K.Gunasekaran</p> <p>(72)Name of Inventor :</p> <p>1)Dr.S.Prabu</p> <p>2)Dr.M.Rajendiran</p> <p>3)Dr.R.Ganesh Babu</p> <p>4)Dr.J.Stanly Jaya Prakash</p> <p>5)Dr.S.Kannan</p> <p>6)Dr.M.Suganthi</p> <p>7)Dr.S.Balamurugan</p> <p>8)Dr.R.Kathirvel</p> <p>9)K Madumathi</p> <p>10)Dr.K.Gunasekaran</p>
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(57) Abstract :

The present disclosure relates to an efficient system and method of agricultural planting and breeding based on Internet of Things and Cloud Computing Systems, comprising a plurality of cloud terminal node field modules 105, plurality of plant based and environmental parameter analysing sensors 106, primary local 104 and secondary cloud server 103 databases, input field, local field Master Control Unit 109, a command centre 111 and solution field module 107. The said system 100 not only stands a solution for effective planting and breeding through image processing by local server 104 and cloud server 103 integrated disease diagnosis and prevention system but also integrates all the fields and farmers across the globe with efficient data management of plant variety, growth, environment, diseases, production, sale and quality parameters of plant growth and breeding practices.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024175 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING LIQUID LEVEL IN A STORAGE TANK

(51) International classification

:G01F
23/00

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

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: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 :

SYSTEM AND METHOD FOR MONITORING LIQUID LEVEL IN A STORAGE TANK Exemplary embodiments of the present disclosure are directed towards a system and method for monitoring liquid level in a storage tank. The system for monitoring liquid level in a storage tank, comprising: a sensor 102 connected to a processing device 104, the sensor configured to continuously sense liquid level and transmit liquid level data of an overhead tank 101 to the processing device 104, whereby the processing device 104 configured to receive and analyse the liquid level data obtained from the sensor 102 to trigger a relay 109 when the liquid level data value exceeds or decreases from its threshold value; and a computing device 108 comprising a liquid level monitoring module 108a configured to establish communication with the processing device 104 through a network 106, whereby the processing device 104 configured to transfer the liquid level data to the computing device 108 in real-time. FIG.1

No. of Pages : 31 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024282 A

(19) INDIA

(22) Date of filing of Application :10/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : UPPER LIMB MOVEMENT DETECTION USING EEG SIGNALS & HYBRIDIZED NEURAL NETWORK

(51) International classification	:A61B 5/00	(71)Name of Applicant : 1)G. VENKATARAMANA SAGAR
(31) Priority Document No	:NA	Address of Applicant :87/1337-J-4-F 501, SAI LAKSHMI
(32) Priority Date	:NA	TOWERS, KURNOOL, ANDHRA PRADESH, INDIA, 518002
(33) Name of priority country	:NA	Andhra Pradesh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)G. VENKATARAMANA SAGAR
(87) 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 :

Investigation on human limb movements is a significant topic in biomedical engineering, particularly for treating the patients. Usually, the limbs movement is examined by analyzing the signals that occurred by the movements. However, only a few attempts were made to explore the correlations among the movements that are recognized by the human brain. Therefore to prevail over this, this model aims to propose a new upper limb movement classification with two phases like Preprocessing and Classification. Initial process is the preprocessing that is performed for detecting and removing noisy channels. The artifacts are marked by Band-Pass Filtering (BPF) that (a) discovers the values below and above thresholds of 200 uV and -200 u.V, correspondingly, (b) It also discovers the trials with unusual joint probabilities and (c) the trials with unusual kurtosis are also determined using this method. After this, the pre-processed signals are subjected to the classification process, where Neural Network (NN) model is used. The model finally classifies six movements like "elbow extension, elbow flexion, forearm pronation, forearm supination, hand open, and hand close", respectively. In order to make the classification more accurate, this invention intends to optimize the weights of NN by a new hybrid algorithm known as Bypass Integrated Jaya Algorithm (BI-JA) that hybrids the concept of Rider Optimization Algorithm (ROA) and JA. Finally, the performance of the proposed model is proved over other conventional models with respect to certain measures like accuracy, sensitivity, specificity, precision, FPR, FNR, FDR, FI-score and MCC, respectively.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024462 A

(19) INDIA

(22) Date of filing of Application :11/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ODE- MINING ALGORITHM: OPTIMISATION OF OPENCAST MINING MACHINERY NOISE USING DIFFERENTIAL EVOLUTIONARY ALGORITHM.

(51) International classification	:G06N 3/12	(71)Name of Applicant : 1)Dr. DS RAO (ASSOCIATE PROFESSOR-CSE) Address of Applicant :KONERU LAKSHMAIAH EDUCATION FOUNDATION, HYDERABAD, TELANGANA- 500075, INDIA. E-Mail: dsrao@klh.edu.in, E-Mail: dsrao111@gmail.com Telangana India 2)Dr. DP TRIPATHY (PROFESSOR- MN) 3)Ms. LINGAM SUNITHA (ASSISTANT PROFESSOR- CSE) 4)Ms. BHARGAVI M (ASSISTANT PROFESSOR-CSE) 5)Ms. VENKATA RAMANI VARANASI (ASSISTANT PROFESSOR-CSE) 6)Dr. K. RAMASUBRAMANIAN (ASSOCIATE PROFESSOR -CSE) 7)Dr. MAHESH BABU A. (ASSOCIATE PROFESSOR- CSE) 8)Dr. A. PRANAYANATH REDDY (ASSOCIATE PROFESSOR -CSE)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. DS RAO (ASSOCIATE PROFESSOR-CSE) 2)Dr. DP TRIPATHY (PROFESSOR- MN) 3)Ms. LINGAM SUNITHA (ASSISTANT PROFESSOR- CSE) 4)Ms. BHARGAVI M (ASSISTANT PROFESSOR-CSE) 5)Ms. VENKATA RAMANI VARANASI (ASSISTANT PROFESSOR-CSE) 6)Dr. K. RAMASUBRAMANIAN (ASSOCIATE PROFESSOR -CSE) 7)Dr. MAHESH BABU A. (ASSOCIATE PROFESSOR- CSE) 8)Dr. A. PRANAYANATH REDDY (ASSOCIATE PROFESSOR -CSE)
(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 :

Patent Title: ODE- Mining Algorithm: OPTIMISATION OF OPENCAST MINING MACHINERY NOISE USING DIFFERENTIAL EVOLUTIONARY ALGORITHM. ABSTRACT My Invention €ODE- Mining Algorithm€ • is a Noise levels produced by various mining equipment€™s are high and exposure to such levels is considered as a severe problem. The aim of this invention is to develop and analyse the ability of a differential evolution (DE) algorithm to locate global optima of the far field noise levels produced by mining machineries in the mine. The main function formulated is maximisation of sound pressure level (SPL) so as to determine optimal distance, optimal directivity index, optimal sound power level (SWL) and other optimal attenuation parameters. The most essential challenge in optimisation problems is CPU time. Comparison with the best known variants of DE over the objective function reflects the superiority of the parameter tuning scheme in terms of accuracy, convergence speed and robustness. Results show that DE/RAND/2 is able to converge, find optimum values faster compared to other mutation variants and seems to be a promising approach for machinery noise optimisation problems.

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

(54) Title of the invention : ISPT- MOBILE BANKING: INTELLIGENT AND SECURED PAYMENT TRANSFER USING 4-G,5-G MOBILE BANKING.

<p>(51) International classification :G06Q 20/32</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. K. LINGARAJA (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF BUSINESS ADMINISTRATION, THIAGARAJAR COLLEGE, MADURAI-625009, TAMIL NADU, INDIA. E-Mail: klingarajaphd@gmail.com Tamil Nadu India</p> <p>2)DR. V. RAMANUJAM (ASSOCIATE PROFESSOR)</p> <p>3)DR. D. NAPOLEON (ASSISTANT PROFESSOR)</p> <p>4)DR. T. VISWANATHAN (ASSISTANT PROFESSOR)</p> <p>5)DR. MARXIA OLL. SIGO (ASSISTANT PROFESSOR)</p> <p>(72)Name of Inventor :</p> <p>1)DR. K. LINGARAJA (ASSISTANT PROFESSOR)</p> <p>2)DR. V. RAMANUJAM (ASSOCIATE PROFESSOR)</p> <p>3)DR. D. NAPOLEON (ASSISTANT PROFESSOR)</p> <p>4)DR. T. VISWANATHAN (ASSISTANT PROFESSOR)</p> <p>5)DR. MARXIA OLL. SIGO (ASSISTANT PROFESSOR)</p>
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(57) Abstract :

Patent Title: ISPT- Mobile Banking: INTELLIGENT AND SECURED PAYMENT TRANSFER USING 4-G,5-G MOBILE BANKING. ABSTRACT The invention €ISPT- Mobile Banking€ is a concerns a technology of making a secure payment transaction by a customer including all steps of receiving, by a 3G,4G,5G mobile device of the customer, merchant data; transmitting, by the 3G,4G,5G mobile device to a local server, a payment transaction request including the merchant data; determining, by the local server. The authorized customer based secure request and the identity of the merchant based on the data; and implementing the payment transaction between bank accounts of the customer and the merchant. The 3G,4G,5G mobile device is selected as the mode of payment for said payment transaction by positioning said 3G,4G,5G mobile device within secure communication range of said point of sale equipment. The step of transmitting said merchant data to said local server comprises establishing a video call between said 3G,4G,5G mobile device and said local server, wherein images of said visual token are captured by said camera of said 3G,4G,5G mobile device and transmitted to said local server as part of said video call and producing said visual token, wherein said visual data further encodes transaction details relating to said payment transaction.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024608 A

(19) INDIA

(22) Date of filing of Application :11/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : CORONAVIRUS PROTECTED ROOM: DISINFECTING ROOM AIR USING IOT AND MACHINE LEARNING PROGRAMMING

(51) International classification	:G06N 20/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. M PUSHPA RANI (PROFESSOR & DIRECTOR)
(32) Priority Date	:NA	Address of Applicant :DEPARTMENT OF COMPUTER
(33) Name of priority country	:NA	SCIENCE MOTHER TERESA WOMEN'S UNIVERSITY
(86) International Application No	:NA	KODAIKANAL -PIN: 624102, TAMIL NADU, INDIA. E-mail :
Filing Date	:NA	drpushpa.mtwu@gmail.com Tamil Nadu India
(87) International Publication No	: NA	2)Dr. ILANGO PARAMASIVAM (PROFESSOR)
(61) Patent of Addition to Application Number	:NA	3)Dr. P. THIYAGARAJAN (ASSISTANT PROFESSOR)
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. M PUSHPA RANI (PROFESSOR & DIRECTOR)
Filing Date	:NA	2)Dr. ILANGO PARAMASIVAM (PROFESSOR)
		3)Dr. P. THIYAGARAJAN (ASSISTANT PROFESSOR)

(57) Abstract :

Patent Title: Coronavirus Protected Room: DISINFECTING ROOM AIR USING IOT AND MACHINE LEARNING

PROGRAMMING ABSTRACT The invention €Coronavirus Protected Room€ • is an air disinfection spraying the formulation advanced raw materials comprise: rose, vitamin E, chlorate, a halogenated disinfectant, a filler, water, perfume, etc. The room air disinfection spraying is prepared and mixing using machine learning programming device. The high quality raw materials production process is complex, the cost is average, the air disinfection spraying causes no environment pollution, is nontoxic, has no irritation to human body. The Air flows between the exterior and interior of the enclosure through the second, third air inlet passes through a coronavirus killer filter assembly. The invention also includes an air dispersion outlet having a fan that draws air into the invention through the first, second and third air inlets and forces air out of the invention. The chemical dispersion assembly generates a disinfecting clean fog relative to the fan. The controller system (Machine learning Programming) controls the air intake control assembly to disperse the disinfecting clean fog into the room, and subsequently draw the disinfecting clean fog from the room and through the coronavirus killer filter assembly. The invention controlling programing display the panel then user can select an air fragrancing mode of operation subsequent to selecting the air purification mode of operation. The disinfecting substance filter assembly comprises a disinfecting substance filter that neutralizes or captures disinfecting substance passing there through and varying the surface cleaning mode of operation in response to signals sent from the user interface operatively connected to the control system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024717 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ECOFRIENDLY RAIN GUARD

(51) International classification	:C10M 177/00	(71) Name of Applicant : 1)L. THANKAMMA
(31) Priority Document No	:NA	Address of Applicant :STRA-33, THURUVIKKAL P.O.,
(32) Priority Date	:NA	ULLOOR, THIRUVANANTHAPURAM - 695 011. Kerala India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)L. THANKAMMA
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 ecofriendly rain guard made of rubber designed to protect the tapping panel of rubber trees from rainwater is disclosed. The rain guard is adapted to be reused for multiple seasons and it does not require chemical paste to affix it to the tree trunk. Said rain guard comprises of a pleated thin rubber sheet (A) fixed on the rubber tree trunk using a rain guard fixing member (B) on the upper end using nails. The sheet extends down and protects the tapping panel from rainwater, wherein the rain guard fixing member (B), prevents any water leakage into the tapping panel region. A rubber strap (C) is fixed above the tapping panel so as to keep the rubber sheet in a raised position to facilitate tapping. FIG.1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024725 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SMART CABIN TO SHORTLIST COVID-19 PATENTS

(51) International classification	:G10L 15/08	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. G. KULANTHAIVEL
(32) Priority Date	:NA	Address of Applicant :NATIONAL INSTITUTE OF
(33) Name of priority country	:NA	TECHNICAL TEACHERS" TRAINING AND RESEARCH
(86) International Application No	:NA	CSIR ROAD, TARAMANI, NEAR TIDEL PARK, CHENNAI,
Filing Date	:NA	TAMIL NADU - 600 113. Tamil Nadu India
(87) International Publication No	: NA	2)DR.V. ULAGAMUTHALVI
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. G. KULANTHAIVEL
(62) Divisional to Application Number	:NA	2)DR.V. ULAGAMUTHALVI
Filing Date	:NA	

(57) Abstract :

Abstract: According to the current evidence, COVID-19 virus is primarily transmitted between people via respiratory droplets and contact routes. In this proposed work we are proposing a COVID cabin which automatically opens up the cabin via IR sensor. From the cabin it will detect the body temperature of the persons by IR temperature sensor. Apparently there is a difference in breath rate for the COVID affected person and a normal person. The SpO2 sensor detect the O2 saturation level on the blood for patients with mild respiratory diseases, the SpO2 should be 90% or above. Supplementary oxygen should be used if SpO2 levels falls below 90%, which is unacceptable for a prolonged period of time. When all the test are done in order to sterilize the cabin and equipment"s we are beaming a UV light which will saturate the disease or it will destroy it.

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

(54) Title of the invention : APPARATUS FOR MEASURING FOCAL LENGTH OF LENSES IN DIGITAL FORMAT

(51) International classification	:G03G 15/32	(71)Name of Applicant :
(31) Priority Document No	:NA	1)MR. R. KARTHIKEYAN
(32) Priority Date	:NA	Address of Applicant :P. A. C. RAMASAMY RAJA
(33) Name of priority country	:NA	POLYTECHNIC COLLEGE, K.R. NAGAR (POST),
(86) International Application No	:NA	RAJAPALAYAM-626108, TAMILNADU, INDIA. Tamil Nadu
Filing Date	:NA	India
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DR. S. BATHRINATH
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Focal Length of Convex Lens is determined using an apparatus that uses an illuminated object as source, and a white-colored screen to collect the source's image. The lens is placed in between the source and white screen. By adjusting the locations of source, lens, and white screen, a clear image of the source is produced on the white screen. The distance between the source and the lens (u) and the distance between the image and the lens (v) are measured. The focal length of lens (f) is calculated manually using the formula. This designed measurement system uses two Ultrasonic sensors mounted on the lens stand to measure the distances, an Arduino Uno microcontroller to process the input data, and a LCD Display to display the focal length in a digital format. This project can be used for measuring and for validation also.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024755 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : ECO-FRIENDLY SURGICAL FACE MASK GOWNS & MATERIALS INNOVATION

(51) International classification	:B32B	(71) Name of Applicant :
(31) Priority Document No	5/02	1)N. PRAVEEN
(32) Priority Date	:NA	Address of Applicant :M.V. MADHAVA GIRI, 18 K.M.
(33) Name of priority country	:NA	KARUNANIDHI STREET, WEST MAMBALAM, CHENNAI-
(86) International Application No	:NA	600033, TAMILNADU, INDIA. Tamil Nadu India
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)N. PRAVEEN
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The current technology uses non-woven fabrics made from plastics like polypropylene (PP) and polyethylene (PE) to manufacture masks. It is an established fact that plastic waste causes environmental hazard. Additionally, persons with prolonged use of these masks have complained of causing shortness of breath, drowsiness, headache and excessive sweating. To address the problem, an innovation has been developed - to ensure our technology is used as the sustainable development product for a better and brighter living. All the plastic surgical mask, gowns, scrub can be replaced with our new innovations. The technology eradicates the complete usage of plastic materials thus make it eco-friendly. One eco-friendly alternative to the current plastic is bioplastics. With this bio alternative, we aim to erase the existing environment threatening technology and its associated risk to human health and environment. All the drawbacks have been sorted to ensure a complete sustainable products to the globe. .o

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024780 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : CORONAVIRUS DETECTION 3-G, 3-G, 5-G MOBILE TECHNOLOGY: A TECHNOLOGY WHICH ENABLES A MOBILE PHONE TO DETECT THE CORONAVIRUS.

(51) International classification	:H04M 1/02	(71)Name of Applicant : 1)Dr. TANWEER ALAM (ASSOCIATE PROFESSOR OF COMPUTER SCIENCE) Address of Applicant :Address-1: ISLAMIC UNIVERSITY OF MADINAH, SAUDI ARABIA. Address-2: GEH RESEARCH, G-12, LAVELLE ROAD, BENGALURU, KARNATAKA-560001, INDIA. E-mail: tanweer03@iu.edu.sa Karnataka India
(31) Priority Document No	:NA	2)Prof.(DR.) SHAMIMUL QAMAR
(32) Priority Date	:NA	3)NEERAJ PANWAR
(33) Name of priority country	:NA	4)VIJAY KRISHNA PALLAW (HOD MCA)
(86) International Application No	:NA	5)DR. VRUSHSEN PURUSHOTTAM PAWAR
Filing Date	:NA	6)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. TANWEER ALAM (ASSOCIATE PROFESSOR OF COMPUTER SCIENCE)
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(62) Divisional to Application Number	:NA	3)NEERAJ PANWAR
Filing Date	:NA	4)VIJAY KRISHNA PALLAW (HOD MCA)
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		6)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)

(57) Abstract :

Patent Title: Coronavirus Detection 3-G, 3-G, 5-G Mobile Technology: A TECHNOLOGY WHICH ENABLES A MOBILE PHONE TO DETECT THE CORONAVIRUS ABSTRACT My Invention €Coronavirus Detection 3-G, 3-G, 5-G Mobile Technology€ • is a process to detect the coronavirus through fetch the image using mobile apps and immediate detect the virus status, you know herein is a newly isolated human coronavirus (SARS-CoV), the causative agent of severe acute respiratory syndrome (SARS). The invention provided are the nucleic acid available sequence of the SARS-CoV genome and the amino acid sequences of the SARS-CoV open reading frames and give the virus indication. The Technology /methods of using these molecules to detect a coronavirus/SARS-CoV and detect infections therewith. The lab Immune stimulatory compositions are also provided, along with methods of their use. The invention provides a technique for step by step complex identification and quantitation of bacteria by mobile apps, amplification of a segment of bacterial nucleic acid followed by analysis by mass spectrometry. The invention apps provide for characterization of the molecular masses and base compositions of bacterial nucleic acids and their increasing sequence which are used to rapidly identify bacteria. This invention provides: a technology/method for detecting / coronavirus / SARS pathogenic viruses with high sensitivity and rapidity for diagnosing severe acute respiratory syndrome (SARS), an oligonucleotide primer that can specifically hybridize with any nucleotide sequence constructed based on the nucleotide sequence of RNA polymerase of the SARS coronavirus, a technology/method for nucleic acid amplification using such primer. A Technology/method for diagnosing infection with the SARS coronavirus via detection of nucleic acid amplification.

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

(54) Title of the invention : IFQCK-COVID19 KIT: INTELLIGENT FRUIT QUALITY CHECKING AND COVID19 KILLER KIT

(51) International classification	:G01N 33/00	(71)Name of Applicant : 1)Mrs. DANESHWARI A NOOLA (ASSISTANT PROFESSOR) Address of Applicant :INFORMATION SCIENCE DEPARTMENT, BLDEA€TMS V P DR P G HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, ASHRAM ROAD VIJAYAPURA- 586103, INDIA. E-mail: ise.noola@bldeacet.ac.in Karnataka India
(31) Priority Document No	:NA	2)Ms. PRIYA S A (DATA SCIENCE FACULTY)
(32) Priority Date	:NA	3)Ms. ARATHI CHANDRAN R I (ASSISTANT PROFESSOR)
(33) Name of priority country	:NA	4)Ms. MEGHA SETH (ASSISTANT PROFESSOR)
(86) International Application No	:NA	5)Dr. G. MALLESHAM (ASSOCIATE PROFESSOR, DEAN R & D)
Filing Date	:NA	6)Dr. G. GOVINDA RAJULU (PROFESSOR)
(87) International Publication No	: NA	7)Dr. RAJEEV SHRIVASTAVA (PROFESSOR)
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mrs. DANESHWARI A NOOLA (ASSISTANT PROFESSOR)
(62) Divisional to Application Number	:NA	2)Ms. PRIYA S A (DATA SCIENCE FACULTY)
Filing Date	:NA	3)Ms. ARATHI CHANDRAN R I (ASSISTANT PROFESSOR)
		4)Ms. MEGHA SETH (ASSISTANT PROFESSOR)
		5)Dr. G. MALLESHAM (ASSOCIATE PROFESSOR, DEAN R & D)
		6)Dr. G. GOVINDA RAJULU (PROFESSOR)
		7)Dr. RAJEEV SHRIVASTAVA (PROFESSOR)

(57) Abstract :

Patent Title: IFQCK-Covid19 Kit: INTELLIGENT FRUIT QUALITY CHECKING AND Covid19 KILLER KIT ABSTRACT My invention €IFQCK-Covid19 Kit€ • is A firmness measuring invention for non-destructive advanced testing of all type of fruit with rough surfaces. The Kit comprises the following components: a means to generate an impulsive jet of a fluid (such as air) aimed at the surface of the object under test; a UV-Light, laser to generate a beam of coherent light aimed at the area on the surface of the object under test impacted by the fluid jet. a detector to sense the light reflected off of the surface of the object from the UV-Light, laser beam; an analyzer to determine the amount of deformation of the surface caused by the fluid jet based on the input to the detector; and a controller to coordinate the release of the impulsive jet with the analyzer and also A method and technology for in-vivo characterisation of the quality and ripeness of seasonal fruits and vegetables in which the aroma at the surface of the seasonal fruit or vegetable is excited by light of a defined wavelength so as to induce luminescence of said aroma wherein the spectral distribution of the luminescence is detected. The quantity of parameters based on the intensity of the distribution are determined and changes are compared with predetermined deviation values to draw conclusions on the state of the tested quality of the seasonal fruit or vegetable. The invented approach uses the ability of volatile compounds produced by seasonal fruit or vegetables to luminesce in the vicinity of their surface when irradiated by a light of the appropriate and defined wavelength. While the origin of this emission has not yet been confirmed, its existence allows minute amounts of a substance to be successfully detected. Furthermore, the spectroscopic capacity of such method allows for a reliable discrimination between different physiological states of living species, while the optical focusing and scanning of excitation light allows the mapping of emitting regions as small as a few microns of the plant surface.

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024954 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MODIFIED HYBRID AIR VEHICLE

(51) International classification	:B64B 1/00	(71) Name of Applicant : 1)DHANUSH PABBATHI
(31) Priority Document No	:NA	Address of Applicant :H. No. 3-12-92/385, Rock Town
(32) Priority Date	:NA	Colony, Road No. 3, 7th cross, L.B. Nagar, Hyderabad,
(33) Name of priority country	:NA	Telangana. India Telangana India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)DHANUSH PABBATHI
(87) 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 related to a modified hybrid airship (air vehicle) . The objective of the present invention is to solve the problems in the prior art related to adequacies in techniques and technologies in design of hybrid airships. The present invention discloses a modified design of the hybrid air vehicle (100).

No. of Pages : 28 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024955 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MIND-CONTROLLED DRONE: USING BRAINWAVES AND DEEP LEARNING TO CONTROL DRONE THROUGH THOUGHTS

(51) International classification	:B64C 39/02	(71)Name of Applicant : 1)Mr. HARSH KUMAR Address of Applicant :School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India. Pin: 632014 Tamil Nadu India
(31) Priority Document No	:NA	2)Mr. HIMANSHU THAKUR
(32) Priority Date	:NA	3)Dr. H. PARVEEN SULTANA
(33) Name of priority country	:NA	4)Dr. SURESH N S
(86) International Application No	:NA	5)Dr. T. SUBRAMANI
Filing Date	:NA	6)PARTHASARATHY P
(87) International Publication No	: NA	7)Dr. ASTHA SHARMA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. SHAIK MOHAMMAD RAFEE
(62) Divisional to Application Number	:NA	2)DINESH JACKSON SAMUEL
Filing Date	:NA	3)Dr. SURESH. K
		4)Dr. R. SUBRAMANI
		5)JAISHRI GOTHANIA
		6)KANDAVALLI. SUNANDA RATNA
		7)Dr. A. CHANDRASHEKHAR

(57) Abstract :

Disclosed herein is an unmanned aerial system (UAS) interfaced with a Brain Computer Interface (BCI) configured to control and maneuver a drone (1). The system comprises an electroencephalogram (EEG) device (2) operably connected to a receiving device (3) which is configured to receive the signals from the EEG device (2). The receiving device (3) comprises a thought-Motion Mapping Algorithm implementation unit (42) to control the drone (1) based on the recorded electroencephalogram signal. The system efficiently and effectively uses brainwaves and deep learning to control drone through thoughts. In the existing prior art, drones needed trained pilots to fly. The disclosed system removes the need for training and it just requires active thinking as input to control the movement of the drone. The invention is a low power plug and play system and it can be used by in military warfare, physically handicapped persons and also for disaster management. Figure 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024975 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING RENEWABLE ENERGY

(51) International classification	:F03B 13/14	(71) Name of Applicant : 1)MR. M. RAVIBABU
(31) Priority Document No	:NA	Address of Applicant :13 €“ 412, BANDILADODDI
(32) Priority Date	:NA	STREET, KASIPETA, VENKATAGIRI, NELLORE Andhra
(33) Name of priority country	:NA	Pradesh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)MR. M. RAVIBABU
(87) 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 AND SYSTEM FOR GENERATING RENEWABLE ENERGY The present invention discloses an alternating blade system for generating energy, the system comprising a rotating blade (110) mounted on a rotor (102); and a twisting mechanism (104) coupled mechanically between the rotating blade and the rotor; wherein the rotor houses one or more rotating blades and one of an alternating current (AC) and a direct current (DC) generator.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024976 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR DRIVING CARRIAGES

(51) International classification	:F02C 7/36	(71) Name of Applicant : 1)MR. M. RAVIBABU
(31) Priority Document No	:NA	Address of Applicant :13 €“ 412, BANDILADODDI
(32) Priority Date	:NA	STREET, KASIPETA, VENKATAGIRI, NELLORE Andhra
(33) Name of priority country	:NA	Pradesh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)MR. M. RAVIBABU
(87) 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 :

SYSTEM AND METHOD FOR DRIVING CARRIAGES The present invention discloses a rotating blade system for moving carriages. In an embodiment, the rotating blade system comprises a rotating blade (101) mounted on a rotor (102); a twisting mechanism (103) mechanically coupled between the rotating blade and the rotor, wherein the rotor is configured to hour more than one blades and wherein the rotor rotates the one or more blades axially by means of a motor (104).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024986 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : REAL-TIME SENSOR CENTRIC DATA-AGGREGATION AND SCHEDULING METHOD FOR IMPROVED QUALITY OF SERVICE IN WIRELESS SENSOR NETWORK

(51) International classification	:H04W 84/18	(71) Name of Applicant : 1)N KHADIRKUMAR Address of Applicant :AP/CSE, Maha Barathi Engineering College , A.Vasudevanur(PO), ChinnaSalem(TK), Villupuram(Dt),Tamil Nadu €“ 606201, India Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	2)Dr Bharathi A
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)N KHADIRKUMAR
(61) Patent of Addition to Application Number	:NA	2)Dr Bharathi A
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is related to a real-time sensor centric data-aggregation and scheduling method for improved quality of service in wireless sensor network. The objective of the present invention is to solve the problems in the prior art related to adequacies in techniques and technologies for data-aggregation and scheduling in wireless sensor network. Particularly, the objective of the present invention is to provide a real time sensor centric CRL (Contribution, Reachability, and Lifetime) based data aggregation scheme based data aggregation and scheduling scheme for improved QoS in WSN.

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025006 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A LOW COST RADIO FREQUENCY (RF) SYSTEM AND E-PROBE FOR ANALYSING THE ELECTROMAGNETIC INTERFERENCE EMITTED BY ELECTRICAL AND ELECTRONIC DEVICES

(51) International classification	:G01J 1/04	(71)Name of Applicant : 1)Dr.S.P.Selvaraj
(31) Priority Document No	:NA	Address of Applicant :Department of Electronics and Instrumentation Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode(Dt), TamilNadu-638401
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	Tamil Nadu India
Filing Date	:NA	2)Mr.V.Prabhu
(87) International Publication No	: NA	3)MS.P.Vinothini
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr.S.P.Selvaraj
(62) Divisional to Application Number	:NA	2)Mr.V.Prabhu
Filing Date	:NA	3)MS.P.Vinothini

(57) Abstract :

According to the present disclosure, a system for detecting electromagnetic inference using custom designed E-probe and RF system is disclosed. The system comprises E-probe, RF system and connecting cables. The low cost system detects the electromagnetic radiation and displays the measured value in android Smartphone or computer. The system will be affordable to all the electrical and electronics device manufacturers to take preliminary EMI validation of their products. The present system ensures, there are no complex computations and software coding required for the electromagnetic radiation measurement.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025020 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HYPER CROSS-LINKED IRON-QUERCETIN-3-MALONYLGLUCOSIDE IN TEXTILE WASTEWATER TREATMENT

(51) International classification	:C02F 1/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)ANNA UNIVERSITY, CHENNAI
(32) Priority Date	:NA	Address of Applicant :The Director, Centre for Intellectual
(33) Name of priority country	:NA	Property Rights (CIPR), CPDE Building, College of Engineering
(86) International Application No	:NA	Guindy, Anna University, Chennai-600025, Sardar Patel Road,
Filing Date	:NA	Guindy, Tamilnadu, India. Tamil Nadu India
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)S.KANMANI
Filing Date	:NA	2)R.CHANDRA DEVI
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: Hyper cross-linked iron-quercetin-3-malonylglucoside (Fe-QMG) complex & process thereof The present invention describes Hyper cross-linked iron-quercetin-3-malonylglucoside (Fe-QMG) complex and its process for the preparing the complex, for dye decolourization in textile waste water treatment. The present invention provides cost-effective, eco-friendly & reusable adsorbent for textile waste water treatment.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025026 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : €METHOD AND SYSTEM FOR GENERATING A PERSONALIZED TELEVISION CONTENT PROFILE FOR A USER€ •

(51) International classification	:G06Q 30/02	(71) Name of Applicant : 1)RED BRICK LANE MARKETING SOLUTIONS PRIVATE LIMITED Address of Applicant :6th Floor, Salarpuria Sattva Magnificia Next to Tin Factory, Old Madras Road, Bangalore 560016, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Litan Kumar Mohanta
(33) Name of priority country	:NA	2)Priyam Gupta
(86) International Application No	:NA	3)Srinath Sridharan
Filing Date	:NA	4)Nitin Agarwal
(87) 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 :

ABSTRACT Disclosed herein is a method and a detection system for generating a personalized TV content profile for a user. The system receives digital footprint data of the user, based on which, the system determines direct features and derived features associated with the user. Thereafter, the system detects affinity of the user for content types using trained models based on the determined direct features and derived features. Each of the trained models are associated with a content type and are trained based on affinity of users for each of the content types, which is determined based on informative features. The informative features are identified based on relationship between TV viewership data and digital footprint data of the users. Further, the system generates the personalized TV content profile comprising list of content types preferred by the user based on the detected affinity of the user for each content types. Fig.1

No. of Pages : 35 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025041 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR CONVEYING ARTICLES

(51) International classification	:A24C	(71)Name of Applicant :
(31) Priority Document No	5/32	1)Supermarket Grocery Supplies Private Limited
(32) Priority Date	:NA	Address of Applicant :Fairway Business Park, Survey No's
(33) Name of priority country	:NA	10/1,11/2 and 12/2B of Challaghatta village, Domlur, Bangalore -
(86) International Application No	:NA	560071, Karnataka, India Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Navin Kumar
(61) Patent of Addition to Application Number	:NA	2)Priyank Nahata
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR CONVEYING ARTICLES. A system (100, 600) for conveying articles comprises a first side (102) and a second side (104). The second side (104) is disposed adjacent the first side (102) to define a V shaped configuration, such that articles gather at a trough of the V shaped configuration, while being conveyed. At least one of the first side (102) and the second side (104) comprises a plurality of rotating members (106, 602) that rotate about their respective longitudinal axis. The longitudinal axis is along forward direction of motion of the articles. Rotation of the rotating members (106, 602) changes orientation of the articles, while the articles move in the forward direction. Change in orientation exposes at least a surface of the article, whose orientation is changed, wherein the surface was previously unexposed for image capture or scanning. Reference figure: FIG. 1 Dated this 15th day of June 2020 (Digitally signed) Kartik PUTTAIAH Patent Agent-IN/PA-1809

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025047 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM FOR DISCHARGING ARTICLES

(51) International classification	:B65G 47/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Supermarket Grocery Supplies Private Limited
(32) Priority Date	:NA	Address of Applicant :Fairway Business Park, Survey No's
(33) Name of priority country	:NA	10/1,11/2 and 12/2B of Challaghatta village, Domlur, Bangalore -
(86) International Application No	:NA	560071, Karnataka, India Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Navin Kumar
(61) Patent of Addition to Application Number	:NA	2)Priyank Nahata
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT System for discharging articles. A system 102 for discharging articles is provided. The system 102 comprises at least one tray 104 travelling in a loop 112 and at least one actuator 108. The tray 104 comprises at least one support member 304 that operably pivots between a closed position 706 and an open position 712, and a locking system 312 that retains the support member 304 in the closed position 706. The actuator 108 is operable to be in at least an active position 708 or a rest position 702. The locking system 312 of the tray 104 interfaces with the actuator 108 when the actuator 108 is in the active position 708 and the support member 304 of the tray 104 pivots to the open position 712, which enable the tray 104 to discharge articles at the desired discharge locations. Reference figure: FIG. 1 Dated this 15th day of June 2020 (Digitally signed) Kartik PUTTAIAH Patent Agent-IN/PA-1809

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

(54) Title of the invention : A SYSTEM AND METHOD FOR REDUCED GAS POLLUTION AND OPTIMIZED AIR QUALITY IN RESIDENTIAL HOUSES

<p>(51) International classification :C22B 7/00</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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. T. SRIHARI Address of Applicant :S/o. V. THARUMAR, PROFESSOR, ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT, K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE, NAMAKKAL, TAMILNADU- 637215 Tamil Nadu India</p> <p>2)Dr. R. JEYABHARATH</p> <p>3)Dr. P.VEENA</p> <p>4)Dr. A. MURUGESAN</p> <p>5)Dr. C. SANTHA KUMAR</p> <p>6)Dr. S. VELMURUGAN</p> <p>7)Y. KALIMUTHU</p> <p>8)R.SACITHRAA</p> <p>9)C.SIVAKUMAR</p> <p>10)R. VINOTH KUMAR</p> <p>11)T. JEEVANANDAM</p> <p>12)R. ASHA</p> <p>13)A.PRAVEEN KUMAR</p> <p>14)G.KAMALAHASAN</p> <p>15)S. KAVIN MUTHUKUMAR</p> <p>(72)Name of Inventor :</p> <p>1)Dr. T. SRIHARI</p> <p>2)Dr. R. JEYABHARATH</p> <p>3)Dr. P.VEENA</p> <p>4)Dr. A. MURUGESAN</p> <p>5)Dr. C. SANTHA KUMAR</p> <p>6)Dr. S. VELMURUGAN</p> <p>7)Y. KALIMUTHU</p> <p>8)R.SACITHRAA</p> <p>9)C.SIVAKUMAR</p> <p>10)R. VINOTH KUMAR</p> <p>11)T. JEEVANANDAM</p> <p>12)R. ASHA</p> <p>13)A.PRAVEEN KUMAR</p> <p>14)G.KAMALAHASAN</p> <p>15)S. KAVIN MUTHUKUMAR</p>
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(57) Abstract :

The present disclosure is a System and Method for Reduced Gas Pollution and Optimized Air Quality in Residential Houses. It is a forced ventilation air purification system comprising at least one master exhaust fan 102 capable of rotating in dual directions, plurality of air quality sensors 105, at least one end pipe exhaust fan 106 capable of rotating in dual directions, a control unit 103 working and controlling all elements of the system through a microcontroller, at least one oxygen cylinder 107 connected to a renewable oxygen generator consisting an algae based bio-reactor for production of oxygen and a series of activate carbon filters 108 to reduce suspended pathogens from the atmospheric air. The present disclosure is to ensure a CO2 and other gases free oxygen rich household in closed and well ventilated residential houses providing a healthy living environment in a highly economic and efficient manner.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025141 A

(19) INDIA

(22) Date of filing of Application :15/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : CYBER SECURITY FRAMEWORK FOR TELE MEDICINE APPLICATIONS

(51) International classification	:H04L 29/06	(71)Name of Applicant : 1)Dr.S.Karthik Address of Applicant :Assistant Professor, Electronics and communication Engineering, SRM Institute of Science and Technology, Vadapalani Campus, Chennai - 600026 TamilNadu, India. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr.K.Priyadarsini
(32) Priority Date	:NA	3)Mr.T.S.Balaji
(33) Name of priority country	:NA	4)Mr.P.Rathinakumar
(86) International Application No	:NA	5)Mr.S.Balaji
Filing Date	:NA	6)Dr.M.Latha
(87) International Publication No	: NA	7)Mrs. P Sheela Gowr
(61) Patent of Addition to Application Number	:NA	8)Dr.K.S.Archana
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr.S.Karthik
Filing Date	:NA	2)Dr.K.Priyadarsini
		3)Mr.T.S.Balaji
		4)Mr.P.Rathinakumar
		5)Mr.S.Balaji
		6)Dr.M.Latha
		7)Mrs. P Sheela Gowr
		8)Dr.K.S.Archana

(57) Abstract :

Recently, healthcare technologies such as tele medicine improve the quality of care, reducing cost, and advancements in medicine. Indeed, with advanced technologies, there is an increase in information security and privacy risks such as E-mail phishing, ransomware attacks, and data breaches. Healthcare information security is crucial, and telemedicine applications express security and privacy challenges. This invention proposes a high-security framework for telemedicine applications. The patient's sensitive health data collected from various medical devices, monitors, and laboratories. The health data is transformed into a structured format by data integration tool. The virtual private network used along with a firewall to protect the user's identity by masking the IP address. The encrypted data is stored in the cloud server with high security. Healthcare organization exploits a combination of tele health capabilities, such as remote patient monitoring and video conferencing, to treat patients at home. The NIST cybersecurity framework is proposed to perform the practical risk assessment process. This invention will ensure the intruder free secured framework for telemedicine applications.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025243 A

(19) INDIA

(22) Date of filing of Application :16/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : INTEGRATED ARRANGEMENT OF THYRISTORS WITH DIGITALLY CONTROLLED BIDIRECTIONAL CURRENT AND VOLTAGE SOURCES

(51) International classification	:H03L 7/09	(71) Name of Applicant : 1)M. Balaji
(31) Priority Document No	:NA	Address of Applicant :Technical Director Frontline Electronics
(32) Priority Date	:NA	Pvt. Ltd., 5/83/2, Pandian Street, Alagapuram, Salem, Tamil
(33) Name of priority country	:NA	Nadu, India-636016. Tamil Nadu India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)M. Balaji
(87) International Publication No	: NA	2)B.Vikram
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention is a method and a system for the study and test of thyristors using digitally controlled gate current source for precise and independent triggering. The system can test the static characteristics of thyristor devices like SCR, TRIAC, SCS, IGCT and GTO for educational trainers and industrial testing applications. The system consists of bidirectional current source power supplies { 300,400} which are used to precisely control the gate current in addition to a current limited voltage source power supply(200) that supplies the power across the power terminals of the thyristor. The power supply can be digitally controlled for performance of the requisite task. A microcontroller(100) with a built-in microprocessor (101) is used for monitoring the output voltage through an amplifier(207) keeping its operating program in a flash memory{ 102} with the help of RAM area(103).

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : DESIGN AND OPTIMIZATION OF CARBON PARTICULATE ELIMINATION IN DIESEL EXHAUST EMISSIONS

<p>(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date</p>	<p>:G06F 17/50 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. D. Ommurugadhasan Professor & Head Mechanical Engineering Address of Applicant :St. Anne's College of Engineering and Technology, SH 9,Anguchettipalayam,, Siruvathur Post, Panruti, Tamil Nadu 607106, Tamil Nadu India 2)Dr.V.Jayaseelan Professor in Mechanical Engineering 3)Dr.P.Govindan Professor in Mechanical Engineering 4)Dr.S.Vandaarkuzhali Professor in Mechanical Engineering 5)Dr.P.Balu Associate Professor in Mechanical Engineering 6)Mr.P.Vasanthkumar Assistant Professor in Mechanical Engineering 7)Mr.K.Yoganand Assistant Professor in Mechanical Engineering 8)Mr.U.Poongundran Assistant Professor in Mechanical Engineering 9)Mr.K.Muthukumaran Assistant Professor in Mechanical Engineering 10)Mr.K.Chandrasekar Assistant Professor in Mechanical Engineering (72)Name of Inventor : 1)Dr. D. Ommurugadhasan Professor & Head Mechanical Engineering 2)Dr.V.Jayaseelan Professor in Mechanical Engineering 3)Dr.P.Govindan Professor in Mechanical Engineering 4)Dr.S.Vandaarkuzhali Professor in Mechanical Engineering 5)Dr.P.Balu Associate Professor in Mechanical Engineering 6)Mr.P.Vasanthkumar Assistant Professor in Mechanical Engineering 7)Mr.K.Yoganand Assistant Professor in Mechanical Engineering 8)Mr.U.Poongundran Assistant Professor in Mechanical Engineering 9)Mr.K.Muthukumaran Assistant Professor in Mechanical Engineering 10)Mr.K.Chandrasekar Assistant Professor in Mechanical Engineering</p>
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(57) Abstract :

Circumstance is an attempt to reduce the toxic content of diesel exhaust before it is released into the atmosphere. This system can be used safely for diesel power packs that could be used in flammable atmospheres such as refineries, chemical processing industries, open-cost mines and other confined areas requiring diesel power packs. These toxic gases, which would otherwise be hazardous and prone to accidents, must be reduced to acceptable limits before they are released from the atmosphere. The control system must prevent the NOx reduction catalyst from being fully oxidized while at the same time replenishing the oxygen storage material in order to maintain its function as an oxidation catalyst. These converters are often 90% efficient, virtually eliminating the smell of diesel and helping to reduce visible particulate matter (soot).

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931005607 A

(19) INDIA

(22) Date of filing of Application :13/02/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN EFFICIENT REAGENT FOR REDUCING PHOSPHORUS IN MOLTEN STEEL DURING INDUCTION FURNACE STEELMAKING.

(51) International classification	:C21C5/52	(71)Name of Applicant :
(31) Priority Document No	:NA	1)JAMIPOL LIMITED
(32) Priority Date	:NA	Address of Applicant :NAMDIH
(33) Name of priority country	:NA	ROAD,BURMAMINES,JAMSHEDPUR-831007.
(86) International Application No	:NA	JHARKHAND,INDIA
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)MADAM MOHAN MAHATO
(61) Patent of Addition to Application Number	:NA	2)RAMBALI PRAJAPATI
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An efficient reagent for reducing phosphorus in molten steel during induction furnace steelmaking

According to this invention a reagent has been developed for producing low phosphorous steel comprising:

- a) Adding scrap and other material to the induction furnace
- b) Heating the charge and adding dephosphorising reagent
- c) Adding dephosphorising reagent and fluidizer to the total charger once it melts;
- d) Raking out slag as much as possible,
- e) Adding dephosphorising reagent and fluidizer to the metal bath at 1500°C-1700°C
- f) Retaining slag and tapping the processed steel

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931005609 A

(19) INDIA

(22) Date of filing of Application :13/02/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : COST EFFECTIVE CARBIDE BASED REAGENT FOR HOT METAL DESULPHURISATION.

(51) International classification	:C21C1/02	(71)Name of Applicant :
(31) Priority Document No	:NA	1)JAMIPOL LIMITED
(32) Priority Date	:NA	Address of Applicant :NAMDIH ROAD, BURMAMINES,
(33) Name of priority country	:NA	JAMSHEDPUR-831007. JHARKHAND,INDIA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)P.S. REDDY
(87) International Publication No	: NA	2)SARBENDU SANYAL
(61) Patent of Addition to Application Number	:NA	3)KULVINDER SIGH
Filing Date	:NA	4)MADAM MOHAN MAHATO
(62) Divisional to Application Number	:NA	5)RAJKUMAR YADAV
Filing Date	:NA	

(57) Abstract :

According to the invention, primary object is achieved when such a compound is prepared with calcium carbide having below mentioned composition: CaC₂: 10-30 %; Slag Conditioner: 2-8% ; Volatile Matter: 2-6% ; CaO: 56-86%, and delivers the performance with respect to success rate, metal loss, cycle time comparable to 42% or 52% calcium carbide based reagent. Furthermore, the new reagent is cost effective when compared with the cost for 42% or 52% calcium carbide based reagent.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931013020 A

(19) INDIA

(22) Date of filing of Application :01/04/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : INNOVATIVE CORED WIRE FOR REDUCED CONSUMPTION.

(51) International classification	:B23K35/30	(71) Name of Applicant :
(31) Priority Document No	:NA	1)JAMIPOL LIMITED
(32) Priority Date	:NA	Address of Applicant :NAMDIH ROAD, BURMAMINES,
(33) Name of priority country	:NA	JAMSHEDPUR-831007.JHARKHAND,INDIA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)SMRITI KIRAN
(87) International Publication No	: NA	2)BHAVANI VARIKOOTI
(61) Patent of Addition to Application Number	:NA	3)V NARESH RAO
Filing Date	:NA	4)SARBENDU SANYAL
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cored wire injection process in steel bath with an improvement in the yield / recovery of calcium. In particular, it relates to the dimension of the cored Wire and its injection speed in liquid steel bath to inject additives like fluxes, mainly calcium bearing material and alloying additives in molten steel bath

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931021227 A

(19) INDIA

(22) Date of filing of Application :29/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : CALCIUM SILICIDE AS AN INNOVATIVE HOT METAL DESULPHURISATION REAGENT TO REPLACE MAGNESIUM

(51) International classification	:C21C1/02	(71)Name of Applicant :
(31) Priority Document No	:NA	1)JAMIPOL LIMITED
(32) Priority Date	:NA	Address of Applicant :NAMDIH ROAD,BURMAMINES,
(33) Name of priority country	:NA	JAMSHEDPUR-831007,JHARKHAND,INDIA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)SMRITI KIRAN
(87) International Publication No	: NA	2)MR.RAJ KUMAR YADAV
(61) Patent of Addition to Application Number	:NA	3)BHAVANI VARIKOOTI
Filing Date	:NA	4)DR.SARBENDU SANYAL
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to Desulphurization of hot metal (HMDS). In particular, it relates to the development of an alternate material, other than Magnesium (Mg), to carry out deoxidation function in hot metal during HMDS process. The alternate material developed in this invention is Calcium Silicide (CaSi). This alternate material replaces, partially or fully, Magnesium, which is currently being used for the intended application.

No. of Pages : 4 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931021234 A

(19) INDIA

(22) Date of filing of Application :29/05/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : ALUMINIUM POWDER AS AN INNOVATIVE HOT METAL DESULPHURISATION REAGENT TO REPLACE MAGNESIUM

(51) International classification

:B01J21/04

(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)JAMIPOL LIMITED

Address of Applicant :JAMIPOL LIMITED,NAMDIH
ROAD,BURMAMINES, JAMSHEDPUR-831007,
JHARKHAND,INDIA

(72)Name of Inventor :

1)SMRITI KIRAN

2)MR.RAJ KUMAR YADAV

3)BHAVANI VARIKOOTI

4)DR.SARBENDU SANYAL

(57) Abstract :

Abstract This invention relates to the desulphurization of hot metal and in particular, this invention relates to the desulphurization of hot metal wherein Aluminum Powder is used as agent. More particularly, this present invention relates to the desulphurization of hot metal wherein the hot metal should contain very low oxygen to make this process effective,. Furthermore, this invention also relates to the desulphurization of hot metal which has the beneficial effects of having saving manpower, safety and reliability and resources are used effectively, and economic benefits are high.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031007031 A

(19) INDIA

(22) Date of filing of Application :19/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HAIR HYDROLYSIS AND/OR PLANT FOOD.

(51) International classification	:C05F0001000000, A61Q0005060000, A61Q0005000000, A01H0001060000, C05F0011000000	(71)Name of Applicant : 1)AMIT KUMAR Address of Applicant :28, BIHARI TOLA , GODRA, JAMSHEDPUR, JHARKHAND-831004,INDIA 2)AJIT KUMAR 3)ABHIMANYU SINGH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)AMIT KUMAR 2)AJIT KUMAR 3)ABHIMANYU SINGH
(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(s) consists of, but not limited to, process(es) for the extraction of amino acids from biomass and specifically from untreated human hair AND/OR hair/feathers of any other animal(s) and the results. Hydrolysis of the hair/feathers results in chemical changes to the cysteine AND/OR cystine derivatives. This results in formation of amino acids. Partial Oxidation of the chemical cystine is the reason behind the utility value of the product as a rich source of ready-to-be-absorbed product for plants as plant food. The product containing amino acids may be applied directly to plant leaves, wherefrom it is readily absorbed by stomata/stomates of plant leaves and results in a substantial increase in the yield/produce without damaging the natural soil composition. For example, human hair is currently discarded as waste. This waste human hair accumulates in drainage(s), where it chokes the openings because in its natural form human hair is not decomposable by water. If human hair is burnt, it releases certain constituents into the atmosphere such as sulfur oxides and nitric oxides which may raise the air pollution. The present invention extracts the useful chemicals from hair for utilising it, thereby creating wealth from waste and simultaneously benefitting the environment as well.

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

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.201811047998 A

(19) INDIA

(22) Date of filing of Application :19/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : DUAL STAGE COMPRESSION RATIO FOR IC ENGINE

(51) International classification :F02B0075040000,
F02F0003000000,
F02D0015020000,
F16J0001160000,
F02F0003040000

(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)Daimler AG

Address of Applicant :70546, Stuttgart, Germany Germany

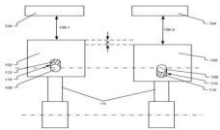
(72)Name of Inventor :

1)Mr. Sanjay Gupta

2)Mr. Venkat Sankalamaddi

(57) Abstract :

A system for variable compression ratio in an IC engine is disclosed, comprising pistons 102 that incorporate an enlarged piston pin slot 110 on right side and left side of piston skirt to support a piston pin 108; and a set of top sliders 112 and bottom sliders 114 on right side and left side supports of pin 108 such that either top sliders 112 or bottom sliders 114 are engaged between piston pin slot 110 and piston pin 108. Engagement of top side sliders 112 results in increased compression ratio due to increased compression height of the piston assembly; and engagement of bottom side sliders 114 results in decreasing compression ratio due to decreased compression height of the piston assembly. A hydraulic circuit is provided to move top and bottom sliders 112/114 between piston pin slot 110 and piston pin 108 in a coordinated manner.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048123 A

(19) INDIA

(22) Date of filing of Application :19/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD AND SYSTEM FOR PROCESSING NETWORK PACKETS

(51) International classification	:G06F0013280000, H04L0029060000, G06F0015167000, G06F0015160000, G06F0012087500	(71) Name of Applicant : 1)Nokia Technologies Oy Address of Applicant :Karaportii 3, 02610, ESPOO, Finland, Finland
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Khan, Yusuf
(33) Name of priority country	:NA	2)Pillai, Amal
(86) International Application No	:NA	3)Khan, Faizan
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 packet processing system, according to an example embodiment, comprises a Network Interface Controller (NIC) to receive and transmit network packets; a memory unit for storing network packets; a processor for processing network packets stored in the memory unit; a cache unit to access all data to the processor from the memory unit; and an application process running on the processing unit. The NIC includes a packet processing means to process the network packets received by the NIC. The packet processing means includes a Contiguous Header Mapping/Map (CHM) header-data splitter to split said network packets into a header portion and a payload portion; a table or equivalent to store the contiguous header-data split configuration data; and a packet Direct Memory Access (DMA) unit to DMA copy said header portion and said payload portion into separate memory areallocation and contiguously map said header portion of network packets in the memory unit.



No. of Pages : 22 No. of Claims : 20

(54) Title of the invention : HYDRAULIC DUMP TRAILER FOR MOVING LOADS

(51) International classification	:B60P0001280000, B60P0001160000, F16H0001160000, B60P0003100000, B62D0021200000	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Harshit Gupta
(32) Priority Date	:NA	2)Ankit Kumar Maurya
(33) Name of priority country	:NA	3)Abhay Singh
(86) International Application No	:NA	4)Md Shazli Al Haque
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 hydraulic dump trailer to unload the material in either direction left or right side with respect to horizontal axis of trailer, comprising: a frame 4 for bearing a load thereon; a fixed support 9 connected with the frame 4, wherein the fixed support 9 transfers load to the frame 4; plurality of wheels 8 attached with the frame 4 for movement of the trailer; a worm gear 1 and pinion 2 connected together for delivering high torque for rotation of the trailer; a base 3 interconnected with the worm gear 1, wherein the base 3 rotate 90 degrees with rotation of the worm gear 1; a trailer bed 7 attached with hinged support 6, wherein the load retained on the trailer bed 7; and at least one piston-cylinder assembly 5 interconnected between the trailer bed 7 and the hinged support 6.



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

(54) Title of the invention : STAIR TRAVERSING APPARATUS FOR WHEELED BAGS

(51) International classification	:A63B0022020000, A63B0021000000, B62B0005080000, B62B0005020000, A45C0003040000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Harsh Mehra
(33) Name of priority country	:NA	2)Ashish 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 :

The present invention relates to a stair traversing apparatus configured to carry bags up or down a flight of stairs with minimal human effort. The apparatus consists of a platform assembly 3 detachably engaged to a wheeled bag by at least one fastening member 5; and at least two conveyer belt 4 mechanically engaged to the platform assembly, wherein the conveyer belt consists of a continuous belt driven by plurality of rollers.



No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : POWER GENERATING TRANSPORTATION DEVICE

(51) International classification	:H02K0007180000, H02J0007140000, F03D0015000000, F03B0017060000, F03B0017020000	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Bikramjeet Singh
(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 relates to a power generating transportation device, comprising at least one pulley 1 mounted on a cable, wherein the pulley 1 rotates on the cable for moving the device, at least one shaft 2 enclosed with plurality of ball bearings 3, wherein the shaft 2 is associated with the pulley 1 and the ball bearings 3 are used for reducing the friction, produced during rotation of shaft 2, at least one dynamo 4 coupled to the shaft 2 for converting the rotational energy of the shaft 2 into electrical energy, a storage means 5 connected to the dynamo 4 for storing the generated electricity and at least one carriage 5 installed in the device which acts as a means for transportation.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048150 A

(19) INDIA

(22) Date of filing of Application :19/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : FOOTREST SYSTEM FOR TWO WHEELER VEHICLES

(51) International classification	:B60N0003060000, A47C0007500000, B62H0005000000, H01M0010420000, B62J0025000000	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Utkarsh Mishra 2)Srajan Gupta
(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 relates to a footrest system for two-wheeler vehicles, comprising: a footrest assembly pivotally mounted on the two-wheeler vehicle; a drive unit associated to the footrest system for actuating footrest of the two-wheeler vehicles; an electric fuse is attached with the drive unit to save the electronic component from over current; a control unit installed in the system, wherein the control unit actuate the drive unit; a switch installed in the system for permitting manual control of the system to a user; a battery connected to the two-wheeler vehicles for providing actuate motion to the footrest assembly; and at least one pressure sensor installed inside the backseat of the two-wheeler vehicle to sense the presence of the user.



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

(54) Title of the invention : PILE TESTING APPARATUS AND A METHOD THEREOF

(51) International classification	:G01N0033240000, G01M0005000000, G01N0003080000, G01N0003240000, G01N0003140000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Jagdeep Singh
(33) Name of priority country	:NA	2)Prashant Garg
(86) International Application No	:NA	3)Charnjeet Singh
Filing Date	:NA	4)Gurmeet 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 invention relates to an apparatus and method for testing of pin piles in laboratory conditions for use in retrofitting of buildings/structures. The apparatus comprises of a container¹ filled with a soil material ¹⁰; two channels⁴ engaged to the container ¹ forming a cross channel frame⁶; a jack for applying load; a proving ring with a first dial gauge for calculation of total load applied; a second and a third dial gauge interconnected with cross channel frame for measuring settlement of soil. The method comprises of following steps: filling the container ¹ with soil material ¹⁰ to prepare a soil test bed; applying load to the soil test bed by means of a jack; calculating total load applied by means of proving ring with a first dial gauge; measuring settlement of soil by means of a second and a third dial gauges.



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

(54) Title of the invention : SMART TROLLEY BAG

(51) International classification	:H04N0007180000, A45C0007000000, A45C0005140000, G06K0009620000, A45C0013300000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Pankaj Sharma
(33) Name of priority country	:NA	2)M Rajkumar
(86) International Application No	:NA	3)Dr. Paras Chawla
Filing Date	:NA	4)Shuvam Sharma
(87) International Publication No	: NA	5)Dr. Ishbir Singh
(61) Patent of Addition to Application Number	:NA	6)Dr. Sushil Mittal
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a smart trolley bag, comprising: a frame associated to the trolley bag; a base sheet attached to the frame, wherein the base sheet is used for placing luggage in the bag; plurality of flex up tires 2 attached to the frame, wherein the flex up tire 2 enables easy movement of the bag up/down stairs; a sensor coupled to the base sheet for sensing weight of the luggage; plurality of camera 4 associated with the trolley bag for capturing images of an area in vicinity of the trolley bag; a voice recognition module installed in the trolley bag for interacting with a user carrying the bag; an alert module installed in the trolley bag for sending battery alert status to the user; a night vision module installed in trolley bag to operate during low light condition.



No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : WEARABLE DEVICE FOR SENSORY IMPAIRED PEOPLE

(51) International classification	:A61B0005000000, G06F0001160000, H02J0007000000, A61B0005145000, G02B0027010000	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab -140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Himanshi
(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 relates to a wearable device 1 for sensory impaired people comprising: an operating module 3 embedded in the device to receive, process and transmit plurality of signals, plurality of sensors 4, 5, 6, 7 mounted on the device 1 communicating with the operating module 3, a charging module 8 coupled to the device for providing power, a GPS module 2 associated with the operating module 3 for tracking location of a user and an interactive user module associated with the operating module 3 to enable a user to interact with the device 1 by means of an audio/vibratory signal.



No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR GRADING OF ROADS

(51) International classification	:E01C0023060000, B60W0040076000, E01C0019000000, F16H0059660000, G08G0001140000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Mr. Devesh Raj 2)Mr. Prabhushankar Patil
(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 system and method for grading of roads are disclosed. A central computing device 104 receives one or more images 106 of a road and processes the received images to associate a grade with the road. The grade is selected from a plurality of grades that are representative of quality of the road. The quality of the road is determined based on processing of the received images with respect to any or a combination of dimensions of potholes on the road, density of potholes on the road, severity estimate of obstacles on the road, luminosity of street lights on the road and space availability for a vehicle 110 to be driven on the road. Central computing device 104 then transmits the associated grade to a user computing device 108 such that the associated grade is displayed to user on a navigation map alongside the road.



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

(54) Title of the invention : CONE AND PARK GEAR MECHANISM

(51) International classification	:F16H0063340000, B60T0001000000, F16H0063480000, B60T0001060000, F16D0063000000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Sirajul Musthafa
(33) Name of priority country	:NA	2)Mr. Vikram Saxena
(86) International Application No	:NA	3)Mr. Prasad Janve
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 parking lock 200 is disclosed, comprising a parking gear 202 fixed to a transmission shaft of the vehicle, and incorporating a plurality of axially oriented apertures 204; and a cone shaped pin 206 slidably held in a housing 302 and adapted to axially move and engage with the apertures 204 on parking gear 202 to block movement of parking gear and thereby immobilize vehicle. Each aperture 204 is configured with a slider 208 that move radially out under centrifugal force due to rotation of parking gear 202. The moved out sliders 208 block engagement of pin 206 with apertures 204 when speed of parking gear is above a threshold speed, but allow engagement of pin 206 with apertures 204 when speed drops below the threshold speed. The pin 206 incorporates a groove 306 where the slider 208 engages when pin 206 is in engagement with an aperture 204.



No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : IMPROVED APPLIQUE FOR VEHICLE DOORS

(51) International classification	:B60J0005040000, B60J0010750000, B62D0025040000, B60J0010265000, D06F0039140000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Pratik Kalli
(33) Name of priority country	:NA	2)Mr. Chandraprakash Chennamreddy
(86) International Application No	:NA	3)Mr. Manjari Papanaidu
Filing Date	:NA	4)Mr. Lokesh Yarlagadda
(87) International Publication No	: NA	5)Mr. Pavan Channi
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An improved door assembly 200 for vehicles is disclosed, comprising a door body incorporating a window frame defining a window opening, and an improved applique 204 configured with the window frame in area of a B-pillar of the vehicle. The improved applique 204 includes a lip 206 that projects towards a waist seal 208 of the door assembly 200 arranged on belt line of the door body. The lip 206 engages with a cap 212 of the waist seal 208 to eliminate any visible gap between the waist seal 208 and the improved applique 204.



No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : TECHNIQUE TO PRECISELY DETERMINE SOOT MASS IN A DIESEL PARTICULATE FILTER

(51) International classification	:A63B0024000000, A63B0071060000, G01G0019414000, F01N0003022000, A61B0005110000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Mitesh Farsodia
(33) Name of priority country	:NA	2)Mr. Satyam Pandey
(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 device to precisely determine weight of accumulated soot in a diesel particulate filter in a vehicle is disclosed. The disclosed device 100 comprises one or more sensors 104 configured with the one or more particulate filter blocks 102, wherein each of the one or more particulate filter blocks is independently supported. There is a sensor for each of the one or more particulate filter blocks 102 to detect weight of accumulated soot in the corresponding particulate filter block 102. The one or more sensors can be any or a combination of a load cell, a piezoelectric sensor, a spring based load sensor, an electromagnetic force sensor and a strain gauge.



No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : METHOD AND SYSTEM TO CREATE A VIRTUAL AUDIO ZONE FOR A SEAT OF A VEHICLE

(51) International classification	:H04H0060580000, H04S0007000000, G06F0003160000, H04M0001725000, H04H0060370000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Shihabudheen Muhammed 2)Mr. Varunjith Vijayan
(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 method and system to create a virtual audio zone for a seat of a vehicle by an infotainment system are disclosed, which work based on classification of audio signals received from one or more vehicle occupants by a dynamically tuned classifier 104. The classifier 104 classifies the audio signals in real-time through one or more neural networks, and identifies audio signal of a first user of the one or more users occupying the seat associated with the infotainment system by comparing the classified audio signals with sample audio signals that are stored in a database 110. A zone audio manager 106 operatively coupled to the classifier, creates the virtual audio zone for the first user based on an identified audio signal, wherein the virtual audio zone executes audio signals only of the first user.



No. of Pages : 32 No. of Claims : 10

(54) Title of the invention : LOAD FLOOR ASSEMBLY FOR A CARGO COMPARTMENT IN A VEHICLE

(51) International classification	:B60R0005040000, B60N0002360000, B60N0002300000, B62D0033020000, B64D0009000000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Omkar Karnik 2)Mr. Basavaraj Vaddatti
(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 load floor assembly 100 for a cargo compartment in a vehicle is disclosed, comprising a first floor member 102 mounted on a load floor of the cargo compartment; a second floor member 104 located adjacent to a proximal transverse side of the first floor member 102; and a right side set of linkages 202-1 and a left side set of linkages 202-2 configured between first floor member 102 and second floor member 104. The set of linkages 202 are adapted to enable lifting of the second floor member 104 from stowed position to an intermediate position in which it takes a lifted horizontal position aligned with guide ways in side walls of the cargo compartment to enable sliding of second floor member 104 towards distal side to engage with guide ways and take a deployed position above the first floor member, thereby forming a shelf structure for organizing cargo.



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

(54) Title of the invention : METHOD AND SYSTEM FOR OPERATING AN INTERCOOLER

(51) International classification	:F02B0029040000, F01P0003180000, B60W0050000000, B60W0010060000, F01P0007160000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Mr. Gijo Peter
(32) Priority Date	:NA	2)Mr. Vivek Prahlada
(33) Name of priority country	:NA	3)Mr. Sashank Vedula
(86) International Application No	:NA	4)Mr. Sathish Vijayaraghavan
Filing Date	:NA	5)Mr. Sudip Gope
(87) 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 system to optimally operate an intercooler of an engine in a vehicle are disclosed, which work based on predicted engine power requirement during travel of the vehicle along a given route. Locations of higher power demand along the route are ascertained and intercooler pump shut off where the power demand profile is within a maximum specified limit and for a specified minimum distance. Further, engine demand is determined, and the desired coolant temperature is predicted in order to achieve the desired engine output. If, in case, ambient conditions are not sufficient to cool the coolant to the desired temperature, the HVAC system is used as a source of additional cooling to reduce temperature of the coolant. Locations where the vehicle is likely to cruise or creep for certain distance is also determined and intercooler pump shut off, cooling intercooler working fluid by air. If a location of higher power demand is preceded by a cruising or creeping distance, the intercooler working fluid is refrigerated even as the intercooler pump is shut-off during the cruising or creeping, to prepare for upcoming requirement of higher power by cooling charge air to shifting to a lower gear.



No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : AUGMENTED REALITY SYSTEM AND METHOD THEREOF

(51) International classification	:G06F0017270000, G06F0017280000, G06K0009720000, G06F0003010000, G06F0009451000	(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	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Devesh Rohan
(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 provides an augmented reality system (200) including an input unit (204), a text recognition unit (206), a natural language processing unit (208), a positioning unit (210), and an output unit (212). The input unit (204) captures an image. The text recognition unit (206) identifies an information on a surface depicted in the image and generates an input data based on the information. The natural language processing unit (208) determines a context of the input data and generates at least one assistive information based on the context. The positioning unit (210) determines one or more spatial attributes based on the image and generates a positioning information based on the spatial attributes. The output unit (212) displays the assistive information based on the positioning information.



No. of Pages : 72 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048340 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A NOVEL INTELLIGENT FORCE CONVECTION AND UTILIZATION OF PHASE CHANGE PROPERTY OF THE MATERIALS FOR THERMAL ENERGY HARVESTING

(51) International classification	:F03G7/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GOURAV VERMA
(32) Priority Date	:NA	Address of Applicant :31/45, NO.-1, BHIKAM SINGH
(33) Name of priority country	:NA	COLONY, VISHWAS NAGAR, SHAHADRA, DELHI-110032,
(86) International Application No	:NA	INDIA Delhi India
Filing Date	:NA	2)VIDUSHI SHARMA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)GOURAV VERMA
Filing Date	:NA	2)VIDUSHI SHARMA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Sensor-based application of environmental monitoring has a huge potential but the only limiting factor is that it is battery operated and thus energy constraint. Energy harvesting is a boon as it helps in environmental monitoring applications. Thermoelectric Energy Harvesting (TEH) has been explored by researchers and they have proposed, the various architecture of TEH systems. The temperature difference is the critical factor for developing TEH system as it directly affects the output energy of the system. In this paper a novel thermoelectric energy harvester is proposed for WSN based environmental monitoring application which considers the change in temperature in a cyclic manner. Phase Change Material (PCM) used is of high latent heat and an intelligent algorithm is proposed which manages the heat energy and maintains the temperature gradient up to 20C. These results in heat flow in interchangeable orders during day and night, thus improving the overall output electrical energy. The intelligent algorithm and optimized framework of TEH system considering parameters affecting TEH facilitates the maintenance of AT. The system is fabricated and implemented using water as PCM. The overall energy output achieved is 10.23 Jig which is sufficient to achieve a perpetual lifetime of WSN based environmental monitoring systems.



No. of Pages : 15 No. of Claims : 2

(54) Title of the invention :A NOVEL DYNAMIC ARRAY OF RF ENERGY HARVESTERS WITH HYBRID STORAGE FOR WIRELESS SENSOR NETWORK"

(51) International classification	:H02J50/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GOURAV VERMA
(32) Priority Date	:NA	Address of Applicant :31/45, STREET NO.-1, BHIKAM
(33) Name of priority country	:NA	SINGH COLONY, VISHWAS NAGAR SHAHADRA, DELHI-
(86) International Application No	:NA	110032, INDIA Delhi India
Filing Date	:NA	2)VIDUSHI SHARMA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)GOURAV VERMA
Filing Date	:NA	2)VIDUSHI SHARMA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel RF energy harvester array has been proposed in this work. The array is able to harvest energy and able to charge the supercapacitor. A novel intelligent algorithm and logic have been proposed which is able to charge the battery perpetually with an incident power of -15dBm to -20dBm. The array" has been implemented and designed to test and validate results. The various types of supercapacitor have been investigated. This is found that the proposed architecture is best suited for the case 3 which is able to harvest energy of around 1.185 from a single supercapacitor in 2Hrs when incident RF power of -7dBm. This can be used to charge a battery of 60mAh, 3.5V. This battery could be perpetually charge if the event based application for the WSN can be used along with wake-up radio concept.



No. of Pages : 22 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048368 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN ARRANGEMENT TO PREVENT ACCIDENTAL ACTUATION OF A TRACTOR FORWARD-REVERSE SHUTTLE LEVER

(51) International classification :B60W0010020000,
F16H0059080000,
F16D0048020000,
B60K0023020000,
G05G0001460000

(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)MAHINDRA AND MAHINDRA LIMITED

Address of Applicant :Farm Equipment Sector, Swaraj
Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali)-
160055, Punjab, India Punjab India

(72)Name of Inventor :

1)Sunil Mittal

2)Akshay Anand

(57) Abstract :

The present disclosure relates to the field of automobiles. The present disclosure envisages an arrangement (100) to prevent accidental actuation of a tractor forward-reverse shuttle lever. The arrangement (100) connects the clutch pedal (110) to the shuttle lever. The arrangement (100) is configured to engage the shifter rod (106) of the shuttle lever in a released state of clutch pedal (110) to prevent accidental displacement of the shifter rod. The arrangement (100) is further configured to disengage from the shifter rod (106) in the depressed state of the clutch pedal (110) to permit displacement of the shifter rod (106), and thus permit the displacement of the shuttle lever.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048414 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SECURE FAUCET COVER FOR HYGIENE AND SAFETY

(51) International classification	:C02F0001000000, C02F0001280000, E03C0001040000, B01D0035040000, E03C0001080000	(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)SAIKRISHNA BONTU
(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 secure faucet cover (100) provided for hygiene and safety in a water purifier comprising a water filtration unit and a water output nozzle (106). The secure faucet cover (100) comprising a lever (105) functioning to START or STOP water dispensing, a spring-loaded lever locker (101) to lock or release the lever (105); a faucet cover (102) to protect the water output nozzle (106) from contaminants in external environment; a shutter (103) assembled inside the faucet cover (102); and a latch lock (104) to lock or release the shutter (103). The secure faucet cover (100) is a provision for hygiene and safety that safeguards water output nozzle (106) from external contamination and prevents any harm to user due to unintended (hot) water dispensing.



No. of Pages : 22 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048437 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : GRANULATION SYSTEM FOR PROCESSING OF PYROTECHNIC COMPOSITION AND THE METHOD OF PROCESSING THE SAME

(51) International classification	:F25B0001053000, A61K0031230000, B01J0002200000, E02F0003960000, B01D0005000000	(71)Name of Applicant : 1)CHAIRMAN, DEFENCE RESEARCH & DEVELOPMENT ORGANISATION Address of Applicant :Ministry of Defence, Govt of India, Room no. 348, B-wing, DRDO Bhawan Rajaji Marg, New Delhi India 110011 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)KROTHAPALLI PRABHAKARA SUBRAHMANYA MURTHY
(33) Name of priority country	:NA	2)VISHWAKARMA AJAY KUMAR
(86) International Application No	:NA	3)DAWARE CHETAN RAMESH
Filing Date	:NA	4)JADHAV ASHOK SITARAM
(87) International Publication No	: NA	5)DEBNATH DIBYENDU
(61) Patent of Addition to Application Number	:NA	6)JADHAV KRISHNAKANT BHAUSAHEB
Filing Date	:NA	7)SAITHALAVI NISHAD PALAR
(62) Divisional to Application Number	:NA	8)GOPALE PATILBUVA TUKARAM
Filing Date	:NA	9)PATIL SHUBHANGI PRAVIN
		10)KHILARE HANUMANT GANPAT

(57) Abstract :

The present invention relates to a granulation system comprising lump making assembly and granulation machine. The present invention more particularly relates to a granulation system which is designed to accomplish the manual processes using two subsystems that is lump making assembly and granulation machine. The present invention is useful for preparation of pyrotechnic composition.



No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048446 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : ANOMALY DETECTION SYSTEM AND A METHOD FOR THE SAME

(51) International classification :G06K0009620000,
G06F0016280000,
G06F0016350000,
G06K0009000000,
G06F0016583000

(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)Chandigarh Group of Colleges

Address of Applicant :Landran Kharar Banur Highway, Sector
112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India.
Punjab India

(72)Name of Inventor :

1)Dr. Amit Verma

2)Iqbaldeep Kaur

3)Sumit Kaur

(57) Abstract :

The present invention relates to system and method for anomaly detection comprising a data clustering module for grouping of data files, a data optimization module to optimize the clusters generated by said data clustering module, a data classification module for classifying the optimized data according to a predefined threshold value. The method for detecting the outliers in data, comprising the steps of uploading the dataset in the system, clustering of data set on the basis of similarity and dissimilarity of characteristics, optimizing the clusters obtained by data clustering module, classifying the optimized data according to a predefined threshold value for removal of outliers from optimized data.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048447 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR DATA MINING

(51) International classification	:G06K0009620000, G06F0016280000, G06F0016350000, G06K0009000000, G06F0016000000	(71) Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Amit Verma
(33) Name of priority country	:NA	2)Iqbaldeep Kaur
(86) International Application No	:NA	3)Sumit Kaur
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 system and method for processing and extracting data from a dataset comprising a data clustering module for grouping of data files, a data optimization module to optimize the clusters generated by said data clustering module, a training module to train the system and classify the results generated after optimization of clusters. The method for data mining is performed by clustering of data set on the basis of similarity and dissimilarity, wherein similarity and dissimilarity is judged according to their characteristics, optimizing the clusters obtained by data clustering module, training the system according to the user's requirement and classifying the results obtained after optimization of clusters.

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : MULTIMODAL BIOMETRIC AUTHENTICATION SYSTEM AND A METHOD THEREOF

(51) International classification	:G06K0009000000, G06K0009460000, G06K0009620000, G06F0021320000, A61B0005000000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr Amit Verma
(33) Name of priority country	:NA	2)Iqbaldeep Kaur
(86) International Application No	:NA	3)Sumit Kaur
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 multimodal biometric authentication system, comprising an input module for defining biometric categories to form a database a preprocessing module for converting an original image into a gray scale image, wherein said original image is extracted from said database, a feature extraction module for determining the uniqueness of said gray scale image and developing key features of said gray scale images, an encryption module for securing said key features extracted by said feature extraction module, a fusion module for fusing said features of said gray scale images and an output module for displaying the result of said gray scale images. The method of multimodal biometric system is performed by applying SIFT and Minutia approaches for feature extraction. The score level fusion fuses the biometric features and evaluate the performance parameters.



No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : AUTOMATIC GARBAGE SEGREGATION SYSTEM AND A METHOD THEREOF

(51) International classification	:C12M0001107000, F23G0005020000, B65F0003000000, B07B0015000000, B03B0009060000	(71) Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Tanvi
(33) Name of priority country	:NA	2)Dr. Manish Mahajan
(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 for automatically classifying and crushing garbage comprising plurality of flaps 18, 19 installed in the system through which the garbage passes, at least one sensor 1 embedded in the system to detect the entry of garbage, at least one controller which receives signal from the sensor 1 to start the working of the system, at least one crusher 15 for crushing the garbage, plurality of chambers 7, 13, 14 to collect different type of garbage , at least one mesh platform 5 to separate liquid and solid waste, at least one conveyor belt 12 to transfer the solid waste to a collection chamber, at least one stopper baffle 17 to segregate the semi solid and solid waste. The method for segregation involves the steps of detecting garbage and starting the system, sorting the garbage, crushing the garbage, dehumidifying the garbage.



No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048450 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : MEDICAL INFORMATION MANAGEMENT SYSTEM AND PROCESS THEREOF

(51) International classification	:G16H0010600000, G06Q0030060000, H04M0003487000, G06F0016953500, G16H0010200000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Basant Kumar Verma
(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 medical information management system and process, capable of storing, tracking and retrieving the medical record of every individual online based on a unique identifier. The system comprises of: a central database module 9 consisting of plurality of medical records; a third party server 8 coupled to the central database module for extracting UIDs; a web application platform 3; and a mobile application 2 platform. The process comprises the following steps: creating the central database module9; developing the web application platform3 for interacting with the user1; developing the mobile application2 for interacting with user1; registering user on the database by mobile2/web application3 platform; adding plurality of medical records by mobile2/web application3 platform; and retrieving plurality of medical records by mobile2/web application3 platform.



No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : METHOD FOR EMBEDDING DATA IN IMAGES BY STEGANOGRAPHY

(51) International classification	:G06T0001000000, G06T0007000000, G06T0005000000, H04N0019980000, G06T0007130000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr Amit Verma
(33) Name of priority country	:NA	2)Iqbaldeep Kaur
(86) International Application No	:NA	3)Sumit Kaur
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 n relates to the method for embedding data into a picture by using artificial bee colony technique, comprising the steps of, converting the image into a gray scale image; applying discrete wavelet transform; masking of the image; providing contour regions to the image, wherein the contour region is selected on the bases of a distance matrix; applying fitness value function; applying artificial bee colony technique; and calculating Peak signal-to-noise ratio, Mean Square Error and embedding Capacity.



No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048452 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM FOR MONITORING AND CONTROLLING AIR CONDITIONERS

(51) International classification	:F24F0011300000, F24F0011000000, H04Q0009000000, F24F0011620000, H05B0001020000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Hardiq Verma
(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 for monitoring and controlling air conditioners comprising a micro controller unit attached to a wall of a building comprising at least one humidity and temperature sensor 2 for detecting the atmospheric conditions (i.e. temperature and humidity), at least a transmitter 5 to convert and send the detected conditions for further processing, at least one battery 4 coupled to microcontroller unit, working as a power source. The system also comprises of a integrated control unit (ICU) coupled to the air conditioners comprising at least one receiver 7 to receive said detected conditions sent by the transmitter 5, at least one switch for switching between NTC and PTC setting, at least one WIFI module for performing wireless operations such as remote operations.



No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048453 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN AUTOMATED METHOD FOR SOFTWARE COMPONENT REUSABILITY

(51) International classification	:G06K0009620000, A61B0005000000, G06N0003080000, H04N0019910000, G06N0003040000	(71) Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Amit Verma
(33) Name of priority country	:NA	2)Iqbaldeep Kaur
(86) International Application No	:NA	3)Sumit Kaur
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 an automated method for software component reusability that comprises the steps of uploading data sets to a platform, wherein said data sets comprises of software components, dividing said data sets into training data sets and testing data sets, wherein said training dataset trains said platform, tokenizing said data sets, wherein said data sets includes said training data sets and said testing data sets, calculating frequency of a data using tf-idf, wherein said tf-idf assigns weights to said data, clustering of said data sets using k-mean clustering and training of data sets using neural network.



No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048454 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : AUTOMATIC SPEECH RECOGNITION SYSTEM AND A METHOD THEREOF

(51) International classification	:G10L0015300000, G06K0009460000, G06K0009620000, G10L0015220000, G10L0025780000	(71) Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Amit Verma
(33) Name of priority country	:NA	2)Iqbaldeep Kaur
(86) International Application No	:NA	3)Sumit Kaur
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 speech recognition system comprising a feature extraction module to extract the features for analyzing user's voice, a matching module for matching the identification of said user's voice with a database created in said feature extraction module, a training template for clustering vectors, a microphone coupled with said system used to detect said user's voice, a speech recognition server to store and a user interface coupled to said speech recognition server over a network. The method for recognizing speech by the system is done by preprocessing, feature extraction and feature matching process.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048455 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : AUTOMATED METHOD FOR FUNCTIONAL TEST CASE GENERATION

(51) International classification :G06F0011360000,
G06F0008100000,
G06T0011200000,
G06F0015780000,
G06F0017270000

(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)Chandigarh Group of Colleges
Address of Applicant :Landran Kharar Banur Highway, Sector
112, Sahibzada Ajit Singh Nagar,Mohali, Punjab 140307, India.
Punjab India

(72)Name of Inventor :
1)Dr Amit Verma
2)Iqbaldeep Kaur
3)Sumit Kaur

(57) Abstract :

The present invention relates to an automated method for generating functional test cases operational via a user platform/interface, the method comprising the steps of: inputting a Software Requirement Specification (SRS) document in a Rational Software Architecture to find the use cases and actors; generating plurality of use case diagrams from SRS documents; identifying user and functional operations from use cases diagram (UAD); automatically generating plurality of activity diagrams; extracting relationship from activity diagrams between users and functions and between different functions; and automatically generating at least one functional test case using a traversing technique.



No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : SYSTEM AND METHOD FOR NOTIFYING USE OF A SPARE WHEEL

(51) International classification	:B62D0043040000, B60C0023040000, G01C0022020000, B62D0043100000, G01C0022000000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Arun Krishnamurthy
(32) Priority Date	:NA	2)Mr. Rahul Manekar
(33) Name of priority country	:NA	3)Mr. Govindarajan Perumal
(86) International Application No	:NA	4)Mr. Vignesh Venkatesan
Filing Date	:NA	5)Mr. Venugopal Reddi
(87) 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 :

System and method for notifying use of a spare wheel on a vehicle is disclosed. The disclosed system 100 works based on pin switches 102 configured with to each of rolling wheel positions, which get actuated by a projection 108 provided on the spare wheel when the spare wheel is mounted in a rolling wheel position. On being actuated, the pin switch 102 sends a signal to a signal receiving unit 106, which activates a display in dashboard of the vehicle indicating use of the spare wheel. The system 100 further includes a trip meter coupled to the signal receiving unit 106 such that it gets activated on receipt of the signal from the activated pin switch 102 to record distance travelled by the spare wheel. The system 100 may warn user when the distance covered by the spare wheel exceeds one or more predefined distances.



No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : BATTERY STATE OF CHARGE INDICATOR FOR BATTERY OPERATED VEHICLES

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B60Q0001500000, B60Q0001300000, H01M0010480000, G08B0005380000, B60Q0001320000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany</p> <p>(72)Name of Inventor : 1)Mr. Andrey Marchuk 2)Mr. Nathan Hill 3)Mr. Rustam Kocher</p>
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(57) Abstract :

A battery state of charge indicator for an electric vehicle 100 is disclosed. The indicator incorporates an array of marker lights 102 arranged in a linear configuration, either horizontally or vertically, on an outer surface of the front side of the vehicle 100. The marker lights are configured to light up from one end to the other as the state of charge of the battery bank improves with the last of the lighted marker lights indicating percentage of charge of the battery. The marker lights light up with different colours and may blink to convey status of the charging process.



No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : SHEAR STUD

(51) International classification	:E04B0002740000, F16B0041000000, E04B0001410000, H01R0004640000, E21B0033140000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Mr. Steven Griffiths
(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 shear stud for holding two parts is disclosed. A shear stud 300 comprises two spaced apart flanges 302 in a portion of the shear stud 300 that lies between two threaded ends 304 of the shear stud 300. The portion 306 of the stud between two flanges 302 has a diameter that is less than diameter of any of the two threaded ends 304 of the shear stud 300. Outer face of the flanges 302 is adapted for resting the parts to be fixed together, and the threaded ends 304 are adapted for fitment of a nut to hold the respective part against the outer face of the respective flange 302. Use of the disclosed shear stud 300 in fixing side extenders to a tractor cabin in a tractor-trailer combination to prevent damage to cabin in event of trailer making contact with side extenders is also disclosed.



No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR PLATOON FORMATION OF VEHICLES

(51) International classification	:G08G0001000000, H04L0009320000, G05D0001020000, H04L0029080000, G07C0005000000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Gijo Peter
(32) Priority Date	:NA	2)Mr. Somanathan Neeraj
(33) Name of priority country	:NA	3)Mr. Vivek Prahlada
(86) International Application No	:NA	4)Mr. Sashank Vedula
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 and method to secure vehicle-to-vehicle (V2V) communications between vehicles in a platoon. One or more vehicles which opt for platoon formation are registered with data such as vehicle ID and MAC ID of the communications module installed in the vehicle. A request for platooning from the vehicle to a computing device is encrypted using a hardware key and is hashed using a hash key. The computing device decrypts the request and verifies source of request using MAC ID. Based on route, a platoon is formed, and vehicles are ordered. V2V communications is made secure by regular authentication of platoon using public and private keys issued between a pair of vehicles in the platoon. In the event of an irregularity in the authentication process, the source vehicle of the irregularity is flagged and the rest of the vehicles in the platoon are alerted to the presence of the flagged vehicle, and the other vehicles are instructed to break platoon protocol and resume a safe state.



No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : DYNAMIC CONTROL STRATEGY FOR DIESEL PARTICULATE FILTER REGENERATION

(51) International classification	:F01N0009000000, F02D0041020000, F01N0003023000, F01N0003025000, B01D0046420000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Gourav Ganguly 2)Mr. Mitesh Farsodia
(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 provides a method and system to control regeneration process of a diesel particulate filter (DPF) of an automobile. Data on conditions favourable for DPF regeneration are collected over an $\epsilon N\epsilon$ • number of DPF regeneration events and based on them a threshold of conditions is determined. The threshold condition represents a state that an automobile shall achieve in order to affect DPF regeneration with minimum wastage of fuel and maximum efficiency. A control module disposed in the automobile monitors the conditions and when favourable ones are reached, initiates dosing of fuel which begins the regeneration process. The data collection of favourable conditions is done periodically, to enable a dynamic learning process.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048474 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A WIRELESS VIBRATION DETECTION UNIT AND USES THEREOF

(51) International classification	:G06F0003043000, G06K0009620000, G01H0017000000, G01V0001000000, A47C0021000000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :POST OFFICE BOX NO 9, HEAD POST OFFICE THE MALL, SOLAN- HIMACHAL PRADESH, INDIA. Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ADIT RANA
(33) Name of priority country	:NA	2)RAJ KUMAR
(86) International Application No	:NA	3)SAIKAT GHOSH
Filing Date	:NA	4)ARSHDEEP SINGH
(87) International Publication No	: NA	5)ABHISHEK AGGARWAL
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Designed sensing unit is related to the detection of vibrations produced by an object (whether living or non-living) and sensing them through vibration sensors, through which we can detect the type of object and vibration. Gel based compartments would be provided to find out the type of vibration produced through different objects. To detect the random, periodic vibrations and sound waves released from any object and the collected data will ensure the result of detected vibrations/sound and type of an objects.



No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048475 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM FOR PORTABLE, HYGIENIC AND EFFICIENT RAW MILK DISPENSING

(51) International classification	:A61K0033000000, F24F0011000000, A47J0027000000, G01N0033040000, A47J0043042000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :POST OFFICE BOX NO 9, HEAD POST OFFICE THE MALL, SOLAN-HIMACHAL PRADESH, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)MEENAKSHI NAYYER
(33) Name of priority country	:NA	2)BRIJ BHUSHAN
(86) International Application No	:NA	3)AMIT NAYYER
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 raw milk delivery at the door step of the customer is the day to day practice used by the milk man and milk vans. The practices of distributing milk are not as hygienic and prone to contamination due to repeated process of putting hands in the container of milk to fetch it. The measuring process itself is time consuming. Moreover, the milk is distributed on approximation of the milk man as mostly one litre and half litre measurement instruments are available in the market. The system is proposed to make the practice of milk distribution more hygienic and accurate. The automated process is automated which converts the system into more time efficient.



No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048501 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : AUTOMOBILE PUSH BUTTON SWITCH

(51) International classification	:H04L0029080000, H04N0005330000, H04W0076150000, F16H0059540000, H03M0001060000	(71) Name of Applicant : 1)NAPINO AUTO & ELECTRONICS LTD. Address of Applicant :PLOT NUMBER 7, SECTOR 3, IMT MANESAR DISTT GURGAON HARYANA INDIA 122050 Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Dinesh
(33) Name of priority country	:NA	2)RANJAN, Rakesh
(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 an easy to construct and cost efficient push type switch which is configured to operate at different levels of current flow including, ultra-low level of current flow. The push type switch is particularly configured as a clutch switch or as a brake switch.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048513 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : PUSH BUTTON SWITCH

(51) International classification	:H04L0029080000, C02F0009000000, H04N0005330000, H03F0003190000, H04W0004020000	(71) Name of Applicant : 1)NAPINO AUTO & ELECTRONICS LTD. Address of Applicant :PLOT NUMBER 7, SECTOR 3, IMT MANESAR DISTT GURGAON HARYANA INDIA 122050 Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Dinesh
(33) Name of priority country	:NA	2)RANJAN, Rakesh
(86) International Application No	:NA	3)VERMA, Sunil
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 an easy to construct and cost efficient push type switch which is configured to operate at different levels of current flow including, ultra-low level of current flow. The push type switch is particularly configured as a clutch switch or as a brake switch.



No. of Pages : 20 No. of Claims : 22

(54) Title of the invention : MOTORIZED BRUSH CLEANING DEVICE FOR CLEANING INSIDES OF A DOMESTIC WATER TANK

(51) International classification	:B25F0005020000, B08B0001040000, F16H0025200000, G03G0021000000, B25J0017020000	(71)Name of Applicant : 1)ABES Engineering College Address of Applicant :19th Km Stone NH-24 Ghaziabad Uttar Pradesh INDIA 201009 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SINGH, Dharmendra
(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 relates to a motorized brush cleaning device (100), comprising: a housing (102) defining side wall (108), the side wall (108) being provided with an aperture (106); an electric motor (104) being located within the housing; the electric motor defining an output shaft that traverse through the aperture (106) as provided in the side wall (108); an elongate rod (112) being attached to the housing (102) via a knuckle joint (114), the knuckle joint allowing angular motion of the housing (102) with respect to the elongate rod (112); and a cleaning brush (116) or impeller pump(118) being attached to the output shaft (110) of the electric motor (104).



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

(54) Title of the invention : SAFETY DEVICE FOR VEHICLES

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B60R0022320000, B60R0007040000, B60N0003100000, A62B0003000000, B60R0021000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany</p> <p>(72)Name of Inventor : 1)Mr. Dinesh Lohar</p>
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(57) Abstract :

A safety device for vehicles is disclosed. The disclosed safety device 100 comprises a device body 102, a glass breaker assembly 104 configured with the device body 102, and a cutter assembly 106 configured with the device body 102. The safety device 100 is adapted for fitment in a cavity 124 of a centre console 126 of the vehicle, and allows easy excess for the occupant in case of emergency. The device body 102 is contoured so as to support at least one beverage container from side that enables the cavity 124 to be used as a cup holder. The glass breaker assembly 104 is adapted for easily breaking a glass of vehicle. The cutter assembly 106 is adapted for cutting a seat belt of the vehicle to allow the quick exit the occupants from the vehicle in the case of emergency.



No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : IMPROVED ELECTRIC MOTOR

(51) International classification	:H02K0001270000, H02K0003280000, H02K0029030000, H02K0021140000, H02K0021460000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart,Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Mr. Seshadri Vasudevan 2)Mr. Sirajul Musthafa
(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 :

An improved electric motor is disclosed. The disclosed electric motor 200 comprises a rotor 202 including a plurality of stacks of laminates such that each of the plurality of stacks has longitudinal slots 208 located along a circumferential direction; a plurality of permanent magnets 210 located in the slots 208; and a stator 204 having a plurality of armature windings 206. Each slot 208 of at least two stacks of the plurality of stacks comprises an end cap 212 configured at end of the slot 208 on at least one open side of the at least two stacks to hold the permanent magnets 210 in place in the slot 208. The end cap 212 is detachably held in the corresponding slot 208 to enable removal of the corresponding permanent magnet 210 from the slot 208 for reuse of the permanent magnet 210.



No. of Pages : 16 No. of Claims : 9

(54) Title of the invention : SYSTEM AND METHOD FOR HEATING FUEL CELL STACK IN ELECTRIC VEHICLES

(51) International classification	:H01M0008042230, B60L0001000000, B60L0003000000, H01M0008047460, H01M0008040140	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Saurabh Kumar
(33) Name of priority country	:NA	2)Mr. Pranav Satheesh
(86) International Application No	:NA	3)Mr. Saiveer Kondavalasa
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 :

System and method for pre-heating fuel cell stack 202 in an electric vehicle under sub-zero ambient temperature conditions is disclosed. The disclosed system and method are based on use of a salt reservoir 206 to store molten salt, and circulating a coolant through the salt reservoir and the fuel cell stack 202 when the fuel cell stack 202 is to be preheated before start of the vehicle. Stored salt is heated by at least one heating coil 208 to melts, while the electric vehicle is running, and retained in in molten state.



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

(54) Title of the invention : METHOD AND SYSTEM FOR CHARGING A VEHICLE BATTERY

(51) International classification	:G01R0031392000, G01C0021340000, G01C0021360000, H02J0007000000, G08G0001096800	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Mr. Gijo Peter
(32) Priority Date	:NA	2)Mr. Divas Bahuguna
(33) Name of priority country	:NA	3)Mr. Vivek Prahlada
(86) International Application No	:NA	4)Mr. Sashank Vedula
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 method and system for the charging a vehicle battery in order to maximise the life of the battery and decrease its cost of ownership. The method comprises receiving topographical information about the route the vehicle proposes to travel, along with information such as predicted traffic density, weather forecast and the presence of charging stations along the route. Based on the initial state of charge (SOC) and state of health (SOH) of the battery, a range for the vehicle is estimated. The estimated range is combined with the locations of the charging stations to come up with a SOC profile that suggests a plan for charging the battery. Also considered is the cost of charging the battery and predicted battery replacement cost.



No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048541 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : BALANCER SYSTEM FOR TANDEM AXLE SUSPENSION IN VEHICLES

(51) International classification	:B22D0011053000, B23Q0011040000, B60T0007100000, B60G0005040000, F01L0013000000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Mr. Manish Saxena
(33) Name of priority country	:NA	2)Mr. Sethuraman Ganesan
(86) International Application No	:NA	3)Mr. Prabhakaran NK
Filing Date	:NA	4)Mr. Sunil Kanni
(87) 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 improved balancer system for tandem axle suspension in a vehicle is disclosed. The disclosed balancer system 200 comprises an oscillating lever 206 pivotally fixed with a mounting bracket 202 such that a first spring 212 of a first axle of the vehicle slidably rests at one end of the oscillating lever 206, and a second spring 214 of a second axle slidably rests at other end of the oscillating lever 206; and rubber stoppers 208 configured with the oscillating lever 206. The rubber stoppers 208 are adapted to hit external stoppers 210 fixed with the mounting bracket 202 when rotation of the oscillating lever 206 in either direction exceeds a specified angle to avoid metal to metal collision between the oscillating lever 206 and the mounting bracket 202 and to reduce impact forces.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048600 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR IMPLEMENTING ELECTRONIC PAYMENTS TOWARDS SOFTWARE APPLICATION BASED TAXI DISPATCHER SERVICES

(51) International classification	:G06Q0010020000, G06Q0050300000, G06Q0020400000, G07B0013000000, G06Q0020220000	(71)Name of Applicant : 1)MASTERCARD INTERNATIONAL INCORPORATED Address of Applicant :2000 PURCHASE STREET, PURCHASE, NY 10577, UNITED STATES OF AMERICA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)JAIN, Vairag
(33) Name of priority country	:NA	2)KALLUGUDDE, Manu Dharmaiah
(86) International Application No	:NA	3)PADHIARY, Satya Sudipta
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 for payments towards taxi rides initiated through a software application based taxi dispatcher service. The invention includes (i) receiving a request for a taxi ride, (ii) identifying a trip route, (iii) determining estimated route parameters, (iv) determining an estimated ride fare, (v) receiving an authorization confirming that the estimated ride fare may be debited from an identified payor payment account, (vi) debiting the estimated ride fare from the identified payor payment account for crediting to a payee payment account corresponding to the taxi dispatch service provider, (vii) recording one or more actual ride parameters, (viii) determining an actual ride fare based on the recorded one or more actual ride parameters, and (ix) initiating an electronic transfer of an identified difference amount between the estimated ride fare and the actual ride fare from one of the payor payment account and the payee payment account.



No. of Pages : 32 No. of Claims : 11

(54) Title of the invention : MOUNTING BRACKET ASSEMBLY FOR VEHICLES

(51) International classification	:E04B0002740000, H01R0013658100, H02G0003000000, B60K0015040000, H01R0013645000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Mr. Krishna Kolluri
(33) Name of priority country	:NA	2)Mr. Thirumalai Narasimhan
(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 mounting bracket assembly is disclosed, comprising: a tubular connector 206 and sheet metal mounting brackets 202/204 fixed to the tubular connector 206 on ends of the connector. Connector 206 comprises slots on an end surface. The brackets 202/204 have an opening 210 to allow insertion of end of the connector 206, and one or more stoppers 212/214, extending inward from inner periphery of the opening 210. When the connector 206 is inserted in the opening 210, slots 208 get engaged with corresponding stoppers 212/214 of the mounting bracket. Engagement slots 208 with stoppers 212/214 fixes relative angular positions of the connector 206 and the brackets 202/204, and stoppers 212/214 rest against bottom face of the slots 208 along length of the connector 206 to locate longitudinal position of the bracket 202/204 relative to the connector 206.



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

(54) Title of the invention : IMPINGEMENT COOLING OF CORRUGATED ELECTRIC MOTOR ROTOR SHAFT

(51) International classification	:F16D0001080000, B02C0013280000, F16B0021180000, F04D0029056000, H02K0001200000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.-Ing. Rohit Kulkarni
(32) Priority Date	:NA	2)Mr. Ravi Dharwad
(33) Name of priority country	:NA	3)Mr. Saswat K Rout
(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 improved rotor shaft assembly 200 for a rotor assembly of an electric motor is disclosed. The rotor shaft assembly 200 comprises a shaft 202 having a bore extending along length of the shaft, inner periphery of the shaft 202 incorporating a threaded profile; and cylindrical insert 204 adapted to be accommodated within the bore of the shaft 202 such that the inner periphery of the shaft 202 and the outer periphery of the insert 204 define an annular space, wherein insert 204 is configured for a rotational motion relative to the shaft 202. The insert 204 incorporates a passage 206 for supplying a pressurised coolant from a source to the annular space, and a slot 208 extending along length of the insert 204 to direct a jet of the coolant from the passage 206 to inner periphery of the shaft 202 for impingement cooling.



No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : WASTEGATE FLAP OF A TURBOCHARGER IN AN IC ENGINE

(51) International classification	:F02B0037180000, F01D0017100000, F02D0041000000, B64C0001180000, B32B0003120000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Jitendra Kumar Kalagatoori Archakam 2)Mr. Ashish Chauhan
(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 turbocharger wastegate 200 is disclosed, having a flap 202 adapted to move to a closed position, in which the flap 202 rests against a wastegate seat, to block flow of exhaust gases through one or more waste gate openings, and to an open position, in which flap 202 moves away from wastegate seat, to allow flow of the exhaust gases through waste gate openings. Flap 202 comprises a composite panel 204 fixed on a face of the flap 202 that is on side of wastegate seats so as to at least cover a planar contact region of flap 202. Composite panel 204 has resilience to absorb vibrations of flap 202 to prevent rattling of the flap 202 against wastegate seat and reduce the resultant noise. Composite panel includes compressible layers that form a honeycomb structure 210 sandwiched between an upper layer 206 and a lower layer 208.



No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : LUGGAGE STOPPER FOR REAR PASSENGER SEATS IN VEHICLES

(51) International classification	:B60N0002340000, B60N0002070000, F16K0003020000, B60N0002900000, B60N0002080000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ms. Subhashree Panda
(33) Name of priority country	:NA	2)Mr. Rahul Manekar
(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 luggage stopper is disclosed, comprising a first set of guide rails 202 configured with a leg support 110 of a seat 102; a stopper plate 114 having a second set of guide rails 204 that is slidably arranged with the first set of guide rails 202; and a slider plate 116 having a guide slot 208 such that the slider plate is slidably arranged with a set of horizontal guide rails 206 of the stopper plate 114. Sliding of stopper plate 114 in upward direction along with slider plate 116 provides an obstruction in front of the seat 102, and sliding of the slider plate 114 in lateral direction along the horizontal guide rails 206 provides an obstruction in a front portion of an adjacent seat of the seat 102 to prevent an article placed on the vehicle seats from falling off to vehicle floor.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048638 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A DAMPER FOR AN AUTOMOBILE SUSPENSION

(51) International classification	:F01K0013020000, F25B0043000000, H01M0010440000, F02G0005020000, F16F0009460000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Manish Kumar
(33) Name of priority country	:NA	2)Mr. Peter Fritz
(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 provides a damper for an automobile suspension adapted for increased operating life by protecting the weld joints of the gas bag of the damper. The proposed damper comprises a working chamber and a bound accumulator, which in turn comprises a bound chamber and a bound gas bag. The bound gas bag is welded at least at a bottom end which is placed near the point of entry of fluid into the bound accumulator from the working chamber. A deflector is installed in the damper assembly at this point to deflect the incoming working fluid away from the bottom weld joint of the bound gas bag and thereby, increase its life of operation.



No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : A TABLET CARRIER FOR PASSENGER VEHICLES

(51) International classification	:H04M0001020000, F16M0013000000, B60N0002750000, B60N0003000000, B60N0002020000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Omkar Karnik
(33) Name of priority country	:NA	2)Mr. Basavaraj Vaddatti
(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 carrier assembly 100 for holding a tablet in a vehicle is disclosed, comprising a carrier-console 102 slidably coupled to a calf rest 104 of a vehicle seat to horizontally slide between a retracted position and an extended position; a holder 106 pivotally coupled to the carrier-console 102 about a pivot point 110 such that, when carrier-console 102 is in extended position, rotation of the holder 106 enables tablet held in the holder to be moved to a viewing position suitable for occupant of the seat. A multi-split linkage 108 having a base plate 202 and a slider plate 204, is configured between the carrier-console 102 and the holder 106. Slider plate 204 is slidably coupled to a guide way in the carrier-console 102 to enable adjustment of angular position of base plate/holder independent of position of the calf rest 104 to meet ergonomics of the occupant.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048645 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : AN AUTOMATIC EVALUATION FRAMEWORK FOR INJECTING AND DETECTING DUPLICATED CODE

(51) International classification	:G06F0008750000, G06F0011340000, G06F0011360000, G06F0008300000, G06F0008720000	(71) Name of Applicant : 1)University of Engineering and Management Address of Applicant :€GURUKUL€ • , 6 kms from Chomu on Sikar Road (NH-11), Udaipuria Mod, Jaipur-303807, Rajasthan Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Pratiksha Gautam
(33) Name of priority country	:NA	2)Afaq Ahmad
(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 reveals a mutation operator-based automatic framework for injecting and detecting code clones in the source code automatically. There are various clone detection tools and method proposed in the past but due to the limitations of standard benchmark it is not clear how to evaluate these clone detection tools and techniques. The framework also used for injecting clones in the source code automatically. In the preceding work, clones injected in the source code manually. The invention consists of the steps; foremost mutation operators used for generating code clones and, subsequently these mutation operator-based editing activities injected in the source code automatically thirdly, detection tools executed with the minimum threshold values for the detection of code clones from the source code. Due to the use of mutation operators it is useful for evaluating the detection tools in perspective of robustness, portability, and scalability. The invention useful for software industry to detecting duplicated code from the developed software.



No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048647 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : [IOT BASED GREEN POWER HOME AUTOMATION DEVICE]ABSTRACT

(51) International classification :H04L0029060000,
H04L0012280000,
H04N0007180000,
H04L0029080000,
H02J0007350000

(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)University of Engineering and Management Jaipur

Address of Applicant :€GURUKUL€ • , 6 kms from Chomu
on Sikar Road (NH-11), Udaipuria Mod, Jaipur-303807, Rajasthan
Rajasthan India

(72)Name of Inventor :

1)Afaq Ahmad

(57) Abstract :

The mechanism is describe for facilitate portable, reusable IOT based device which supposed to be implemented in existing home environments, without any changes in the infrastructure. This device can self power generator through solar panel or wind turbine also it has inbuilt rechargeable battery unit. Built-in monitoring system received information from temperature sensor, Humidity sensor, Soil Moisture. This allows user to monitor and control all connected appliance through internet or Bluetooth. The Home Automation let the user to control the home from his or her mobile and assign-actions that should happen depending on time or other sensor readings such as light, movements, temperature or sound from any device in the Home Automation network all being carried out on an encrypted network. These applications have successfully verified and results are observed. This device is also eco friendly and green power generator.



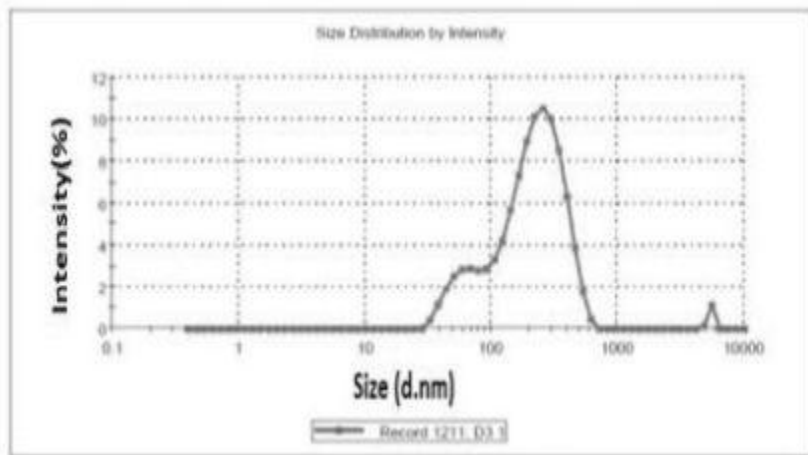
No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : HERBAL NANO PARTICULATE INTRANASAL DELIVERY SYSTEM

(51) International classification	:A61K0031120000, A61K0009000000, A61K0009510000, B82Y0005000000, A61K0009140000	(71)Name of Applicant : 1)ALAM, SANJAR Address of Applicant :C/o R.V. Northland Institute, GT Rd, Chithera, Dadri, Greater Noida-203207, Uttar Pradesh, India Uttar Pradesh India 2)CHAUHAN, NITESH 3)BAJAJ, UMAKANT 4)SAHOO, JAGANNATH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)ALAM, SANJAR
(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 provides a stable and effective herbal nanoparticulate curcumin delivery system to be administered through intranasal (i.n.) route. The optimized curcumin loaded nanoparticles is having size of 183 nm with curcumin: polymer ratio 1:1. The shelf life of curcumin loaded nanoparticle in refrigerated stage (8°C) and at room temperature (25°C) is 2.02 years and 8 years respectively.



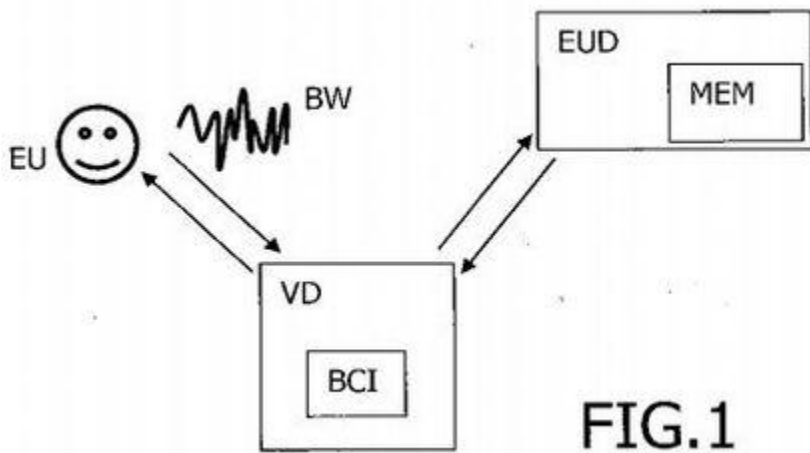
No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : METHOD TO AUTHENTICATE AN END-USER USING BRAIN WAVES

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:A61B0005048400,</p> <p>A61B0005047600,</p> <p>A61B0005047800,</p> <p>H04W0012060000,</p> <p>A61B0005040000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)SAFENET INFOTECH PRIVATE LTD</p> <p style="padding-left: 20px;">Address of Applicant :GF, LAJPAT NAGAR-II NEW DELHI</p> <p>110024 INDIA Delhi India</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Sumitavo BISWAS</p>
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(57) Abstract :

The present invention relates to a method to authenticate an end-user, said method being implemented with an end-user device having a memory to securely store a reference brain wave scheme relative to a personal thought of the user and with a verification device having a brain computer interface to acquire brain waves from the end-user, said method comprising the step of, for both end-user and verification devices, connecting to each other, comparing the stored reference brain waves scheme with the acquired brain waves, authenticating the end-user as soon as the acquired brain waves correspond to the stored reference brain wave scheme.



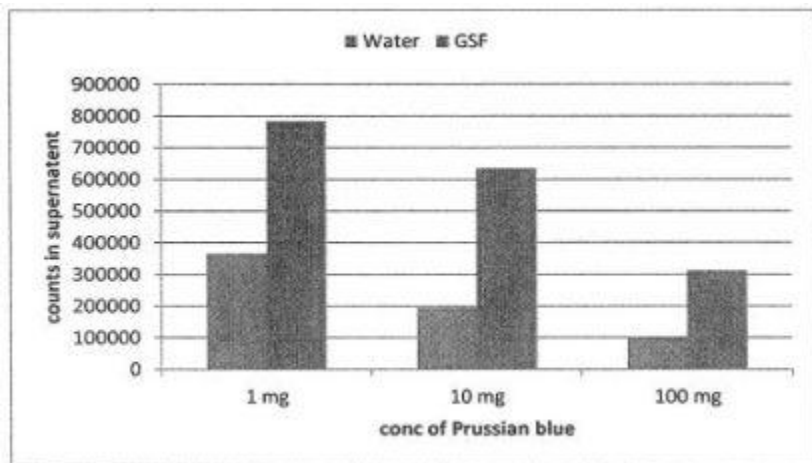
No. of Pages : 15 No. of Claims : 11

(54) Title of the invention : PHARMACEUTICAL DOSAGE FORM FOR REMOVAL OF HEAVY METALS

<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>:A61K0009200000, H04M0003420000, C07D0473180000, A61K0031192000, H04L0029060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Chairman, Defence Research & Development Organisation</p> <p>Address of Applicant :Ministry of Defence, Govt of India, Room No 348. B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi 110 011, India Delhi India</p> <p>(72)Name of Inventor :</p> <p>1)Sandal, Nidhi</p> <p>2)Mittal, Priyanka</p> <p>3)Rani, Komal</p> <p>4)Pathak, Dharm Pal</p> <p>5)Singh, Ajay Kumar</p>
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(57) Abstract :

The present invention describes a pharmaceutical composition comprising decontaminating agent and one or more pH modifying agent along with pharmaceutically acceptable excipients for enhancing metal ion binding efficiency of decontaminating agent. The present invention further describes a sustained release pharmaceutical composition comprising decontaminating agent along with pharmaceutically acceptable excipients in an immediate release form, one or more pH modifying agent along with pharmaceutically acceptable excipients in an sustained release form along with pharmaceutically acceptable excipients.



No. of Pages : 25 No. of Claims : 12

(54) Title of the invention : A THERMODYNAMIC SYSTEM FOR REFRIGERATOR DRYING AND STERLIZATION AND METHOD THEREOF

(51) International classification :F25D0029000000,
F25D0021080000,
B01D0046000000,
F25D0017040000,
F25D0023060000

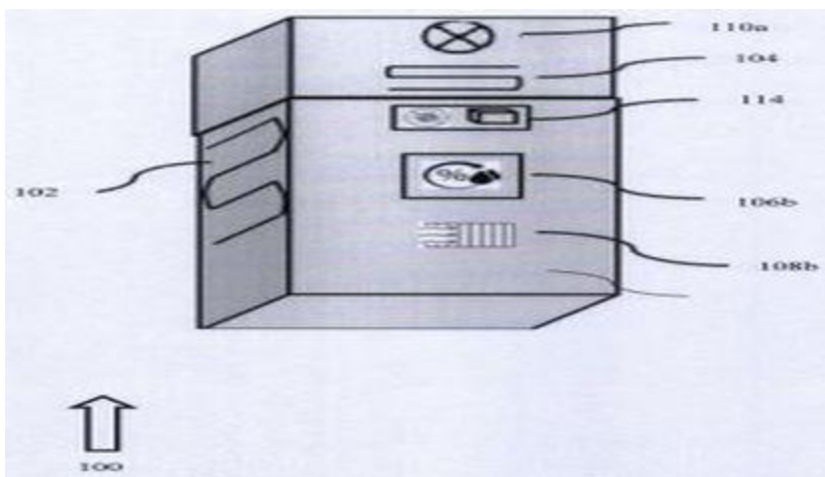
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)LG ELECTRONICS INC.
Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu,
Seoul 150-721, Republic of Korea Republic of Korea

(72)Name of Inventor :
1)VISHNOI ANSHU

(57) Abstract :

A thermodynamic system for refrigerator drying and sterilization (100) to prevent fungus formation during power off condition comprising a refrigeration heater (102),a defrost heater (104),a humidity sensor (106),an air filter (108),a fan (110),a PCB (micro-computer) (112) and a display (with mode selection button & icon) (114) in which the liner design between the foam and inner case is slightly modified and provided with grooves for the installation of refrigerator heater and simultaneously passing the warm air through air filter installed in connection with defrost (104) and refrigerator heater (102) placed inside the refrigerator (200) to trap the bacteria and make the freezer and refrigerator compartments bacteria free.



No. of Pages : 28 No. of Claims : 26

(54) Title of the invention : SOLAR DISINFECTION OF WATER STORED IN A WATER FILTER TANK

(51) International classification	:C02F0001000000, G01F0023260000, C02F0001760000, C02F0001720000, C02F0009000000	(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)BAROLA NEERAV
(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 device provided for solar disinfection (100) of water stored in a water filter tank(105), comprising: a sunlight sensor (101); a plurality of motor (102, 110); a sunlight collector-reflector (103); an optical-fibres pack(104); an ORP sensor (106); a glass diffuser (107); a water level sensor (108); and a control unit (109), wherein the water filter tank(105) includes a plurality of photoactive-material-layered inner wall. A method (700) for the device for solar disinfection (100) comprising steps of: sensing level of water stored, amount of bacterial growth in water and sunlight angle. Further based on above parameters the control unit (109) rotating the sunlight collector-reflector (103) in a direction for utilizing sunlight for disinfection of water. Also the motor (110) rotating the optical-fibres pack (104) inside the water filter tank(105) to project sunlight to each photoactive-material-layered inner wall of the water filter tank(105) for a predefined time interval.



No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048746 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM FOR ENHANCING THE REFRIGERATING EFFECT OF A REFRIGERATOR AND A METHOD THEREOF

(51) International classification	:F25D0029000000, F25B0041060000, F25D0017060000, F25D0017040000, F25B0039020000
(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)LG ELECTRONICS INC.

Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu,
Seoul 150-721, Republic of Korea Republic of Korea

(72)Name of Inventor :

1)BISEN SUDHIR

(57) Abstract :

A system (200) for enhancing the refrigerating effect of a refrigerator (100), the refrigerator (100) including a cabinet (102) enclosing a freezing compartment and a refrigerating compartment, the system (200) comprising: a control unit for controlling all operations of the refrigerator (100); a compressor (204) for compressing and raising temperature of a refrigerant for turning the refrigerant into a gaseous state; a condenser (206) for lowering down temperature of gaseous refrigerant via heat exchange between ambient air and gaseous refrigerant; an expansion valve (208) for facilitating drastic reduction in pressure and temperature of gaseous refrigerant; a vacuum pump (210) for further reduction of pressure and temperature of partial liquid refrigerant and partial gaseous refrigerant; and an evaporator (202) for facilitating heat exchange between air in circulation inside the refrigerator and liquid refrigerant.



No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048747 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM AND METHOD FOR MANIPULATION OF MINERAL CONTENT IN A WATER PURIFIER

(51) International classification	:C02F0001440000, F04D0015020000, E03D0001140000, B65D00900000000, D06F0033020000	(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)BAROLA NEERAV
(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 system comprises a reverse osmosis membrane (101), a mineral module (113), a water tank (107), a plurality of mineral sensor (103), a circulating pump (115), a control unit (307) and a display unit (301). The system (100) manipulates mineral content (303) via a first cycle and a second cycle. The water is re-circulated through the mineral module (113) for addition of minerals in first cycle and in second cycle, a pre-calculated amount of water is drained out from the water tank (107) and a pre-calculated amount of RO water is added for the reduction of minerals.



No. of Pages : 25 No. of Claims : 22

(54) Title of the invention : A PLUNGER PUSH OPENING MECHANISM

(51) International classification	:F25D0023020000, E05F0015530000, F25D0025020000, H05B0006640000, B01F0015000000	(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)VIRDI SUMIT
(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 plunger push opening mechanism (200) for automatic door opening of a swing-type door (102) of a refrigerator (100) provided. The plunger push opening mechanism (200) comprising a body structure (215); a rack-tail plunger (216); a gear train assembly (201) comprising a motor-gear arrangement (400), an intermediate gear assembly (500), an integrated gear assembly (600) and a rack-pinion arrangement (700); a plurality of gear shaft (214) to fix the gear train assembly (201) inside the body structure (215); and a push button. The plunger push opening mechanism (200) automatically opens the swing-type door (102) for the compartment area (101) of the refrigerator (100) by method comprising steps of : pushing the push button to SWITCH ON the driving motor; the driving motor rotating the intermediate gear assembly (500); the intermediate gear assembly (500) rotating the integrated gear assembly (600); and the integrated gear assembly (600) moving the rack-pinion arrangement (700).



No. of Pages : 28 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048749 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A SYSTEM FOR REFRESH CYCLE IN FRONT LOAD WASHING MACHINE AND METHOD THEREOF

(51) International classification	:G11C0011406000, F16K0031060000, D06F0035000000, D06F0025000000, D06F0039080000	(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)KULKARNI ANJANEY
(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 system (100) comprises an inner drum (104) having clothes, an outer drum (106) is adapted to mount a solenoid valve (108) and the solenoid valve (108) is provided to control the flow of air. The refresh cycle facilitates the elimination of bad odour from the clothes of inner drum of the washing machine. The control unit (110) opens the solenoid valve (108) to circulate air, through the orifice, to inner drum (104) of washing machine (102) to obtain refresh cycle.



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

(54) Title of the invention : DOOR HANDLE ASSEMBLY FOR VEHICLES

(51) International classification	:E05B0077060000, E05B0085160000, E05B0017000000, E05B0001000000, E05C0009040000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ms. Manjula Lokeshmurthy
(33) Name of priority country	:NA	2)Mr. Prashant Golappanavar
(86) International Application No	:NA	3)Mr. Sathish Sriramaiah
Filing Date	:NA	4)Mr. Vysakh Gopinath
(87) 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 manual flush type door handle assembly for a vehicle is disclosed that comprises a handle 102 pivotally fixed to a handle bracket 104 to pivotally move about a first axis between a close position and an open position, and a bell crank shaped lever 106 pivotally fixed to the handle bracket for pivotal movement about a second axis that is perpendicular to the first axis. The handle 102 incorporates an extension 112 that engages with a first lever arm 108 of the lever 106 such that movement of the extension 112 due to pulling of handle 102 from its close position leads to rotation of the lever 106. A second lever arm 110 of the lever 106 is coupled to a latching mechanism of the door such that when the lever 106 rotates, the latching mechanism gets actuated to unlatch the door.



No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : ROTOR SHAFT ASSEMBLY FOR ELECTRIC MOTORS

(51) International classification	:F16D0001080000, H02K0001320000, B02C0013280000, F26B0013180000, F04D0029056000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Mr. Ravi Dharwad 2)Dr.-Ing. Rohit Kulkarni
(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 :

An improved rotor shaft assembly 200 for a rotor assembly of an electric motor is disclosed. The rotor shaft assembly 200 comprises a shaft 202 having a bore extending along length of the shaft, inner periphery of the shaft incorporating a threaded profile; and a cylindrical insert 204 incorporating a threaded profile on its outer periphery and adapted to be accommodated within the bore of the shaft 202. The insert 204 is rotatable fitted within the bore of the shaft 202, and the threaded profiles on the inner periphery of the shaft 202 and the outer periphery of the insert 204 define an annular space 206 for flow of a cooling media. The insert 204 is rotated at a speed greater than a rotation speed of the shaft 202, which creates turbulence in the cooling media flowing through the annular space 206 for efficient heat transfer.



No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048780 A

(19) INDIA

(22) Date of filing of Application :22/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A STRONTIUM BASED RARE EARTH FREE HIGH ENERGY PERMANENT MAGNET FOR DC MOTOR APPLICATION AND A METHOD OF SYNTHESIS THEREOF

(51) International classification :H01F0001057000,
C04B0035260000,
H01F0041020000,
F04D0025060000,
H02K0023040000

(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)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI
Address of Applicant :Varanasi-221005, Uttar Pradesh, India
Uttar Pradesh India

(72)Name of Inventor :
1)PRADIP KUMAR ROY
2)DEEPSHIKHA SHEKHAWAT

(57) Abstract :

The present invention provides a Strontium based rare earth free permanent magnet and a method of preparation thereof. More particularly, the present invention relates to a Strontium based permanent magnet having formula with characteristics such as high residual magnetic flux density (Br), high coercive force (iHc), high energy product (BH)max, squareness ratio and further having applications in DC motor (under 1 kw output power) and a preparation of said magnet.



No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048840 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEM AND METHOD FOR CONVERTING EEG SIGNAL TO SPEECH

(51) International classification	:A61B0005000000, H04R0005040000, G01S0015580000, H04S0003000000, H03G0003340000	(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)PANDA, S.N.
(33) Name of priority country	:NA	2)AHUJA, Sachin
(86) International Application No	:NA	3)RANI, Shalli
Filing Date	:NA	4)MASIH, Nancy
(87) International Publication No	: NA	5)VERMA, Vishal
(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 converting an EEG signal to speech. The disclosed system can comprise: a processor coupled with a memory, the memory storing instructions executable by the processor to: receive the EEG signal of a first user; process said received EEG signal, wherein said received EEG signal is amplified, and amplified signal is filtered to remove noise signals; convert filtered signal to an audio signal, wherein said filtered signal is compared with one or more pre-defined signals stored in a first database, and wherein each of said one or more pre-defined signals is associated with a corresponding audio signal, and wherein based on comparison said filtered signals is converted to said audio signal.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048842 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : A DEVICE FOR GENERATING WEATHER FORECAST

(51) International classification	:H04B0017318000, G01W0001100000, B63B0049000000, A61B0005110000, G01S0013880000	(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)SALUJA, Nitin
(33) Name of priority country	:NA	2)VIJ, Kartik
(86) International Application No	:NA	3)KINRA, Rahul
Filing Date	:NA	4)GUPTA, Rouble
(87) 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 weather forecast generating device and further provides system and method for generating weather forecast. The disclosed system includes a processor coupled with a memory, the memory storing instructions executable by the processor to: receive a signal from a weather forecast device (WFD), wherein said signal comprises one or more attributes, and wherein said signal is broadcasted using an active channel; extract signal strength from said received signal; compare said extracted signal strength with a pre-defined signal strength stored in a first database, wherein based on the comparison, distortion in said received signal is determined, and wherein based on said determined distortion weather forecast is generated; and store said generated weather forecast on forecast on any or a combination of the server, the first database and a second database.

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

(54) Title of the invention : €METHOD FOR PLAYING MUSIC IN VEHICLE AUDIO SYSTEM AND VEHICLE AUDIO SYSTEM TO WHICH THE METHOD IS APPLIEDE •

(51) International classification :H04L0029060000,
H04M0001725000,
G11B0027100000,
G10H0001000000,
G06F0016680000

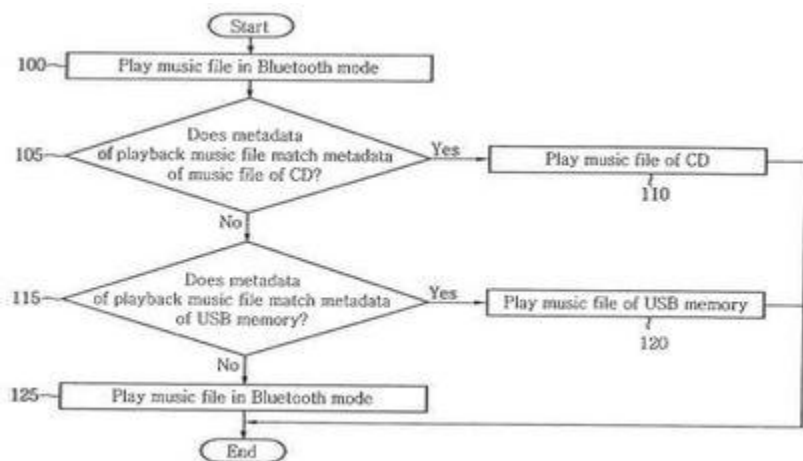
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HYUNDAI MOTOR COMPANY
Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul
06797, Republic of Korea
2)KIA MOTORS CORPORATION

(72)Name of Inventor :
1)KARUTURI, Venkata Avinash
2)CHINTALAPALLI, Raja Kullayappa

(57) Abstract :

A method for playing music in a vehicle audio system includes: playing, by a controller, a music file of a user device that is received via communication; determining, by the controller, whether metadata of the music file to be played matches metadata of a music file that is stored in a first storage device and has sound quality that is better than sound quality of the music file of the user device; and stopping, by the controller, playback of the music file of the user device and playing the music file of the first storage device when the metadata of the music file to be played matches the metadata of the music file of the first storage device.



No. of Pages : 31 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048866 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : NANO VACCINE AGAINST SALMONELLA TYPHI

(51) International classification :A61K9/51
(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)G.B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR

Address of Applicant :PANTNAGAR UTTARAKHAND-263145, INDIA Uttarakhand India

(72)Name of Inventor :

1)YASPAL SINGH

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4)ANIL KUMAR

5)AVADESH KUMAR

6)S.P. SINGH

7)G.K. SINGH

8)MANJUL KANDPAL

9)AMIT KUMAR

10)MEENA MRIGESH

11)ARUN KUMAR

12)MANISH KUMAR VERMA

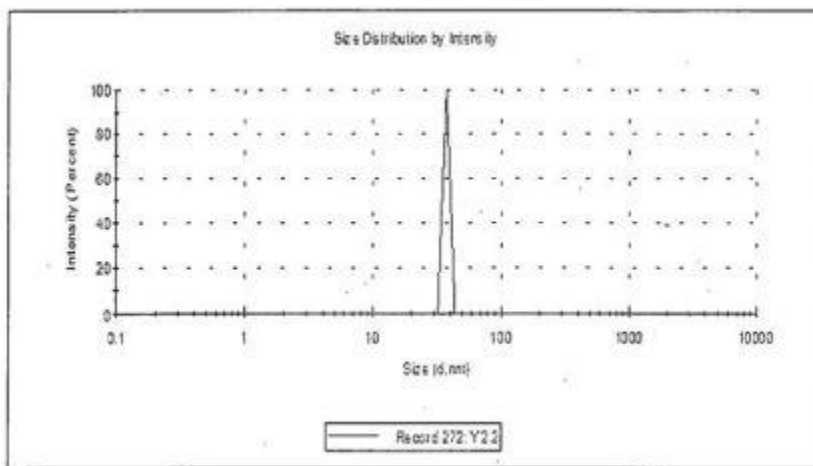
13)A.K. UPADHYAY

14)TANUJ KUMAR AMBWANI

15)MUMTESH KUMAR SAXENA

(57) Abstract :

The present invention deals with the development of novel vaccine against Salmonella Typhi which causes Typhoid fever in human being and results into millions of deaths. The present vaccine is comprised of total outer membrane proteins adjuvanted with Calcium phosphate nanoparticles. Size of Calcium phosphate nanoparticles-Omp complex was determined by Transmission electron microscopy and DLS. The size of these particles ranged from 20-50 nlm and by analysis of Zeta potential these particles were found to be stable. Vaccine was tested in Swiss albino mice for its immune-potential. Vaccine produced a strong humoral and cell mediated immune response. Vaccine also provided protective immunity as bacterial count in target organ was significantly reduced. Vaccine was tested for toxicity by studying biochemical and hematological parameter and it did not caused any toxicity to vital organs like liver or kidney.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048902 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : MANUFACTURING PROCESS OF WIRE STEEL, COLD DRAWN TO OBTAIN ULTIMATE TENSILE STRENGTH (UTS) IN RANGE OF 51 KG/MM2 TO 61 KG/MM2.

(51) International classification	:C22C0038140000, C22C0038040000, C21D0008060000, C22C0038120000, C21D0009560000	(71)Name of Applicant : 1)Ordnance Cable Factory Chandigarh Address of Applicant :Ordnance Cable Factory, Plot No. 183, Industrial Area Phase 1. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Ordnance Cable Factory Chandigarh
(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 relates to the process of manufacturing Cold drawn Steel wire to obtain the Ultimate Tensile Strength in the range of 51 Kg/mm² to 61 Kg/mm². As the UTS required have a very restricted range, the present process describes the method to obtain the Ultimate Tensile Strength in such a restricted range.



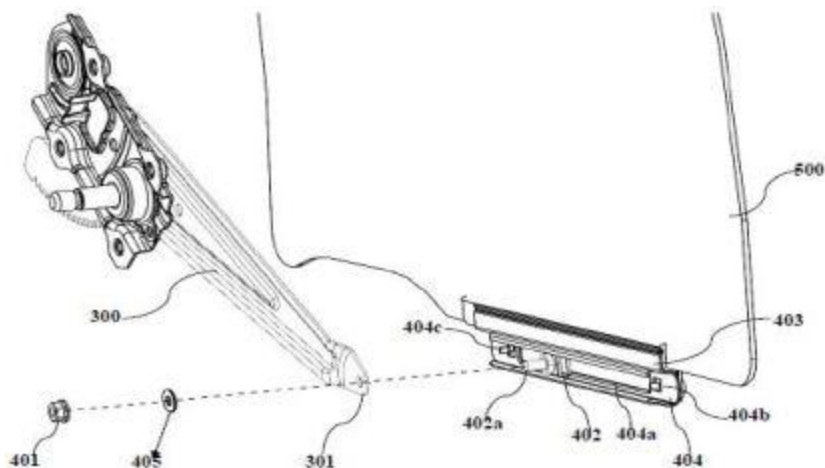
No. of Pages : 18 No. of Claims : 1

(54) Title of the invention : A WINDOW REGULATOR CHANNEL WITH ROLLER

(51) International classification	:E05F0011480000, E05F0011380000, E05F0011440000, E05D0015160000, F16C0029040000	(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)SANDEEP RAINA
(33) Name of priority country	:NA	2)SANJAY HALDAR
(86) International Application No	:NA	3)RAHUL SEMWAL
Filing Date	:NA	4)TARANDEEP SINGH
(87) International Publication No	: NA	5)RAGHAVENDRA KATTI
(61) Patent of Addition to Application Number	:NA	6)AMRINDER SINGH SIDHU
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter disclosed herein relates to a window regulator channel (404) for a single arm regulator assembly. The window regulator channel (404) defines a C-shaped cross-section that constitutes a rolling track (404a) along length and a roller (402) is positioned in the rolling track (404a). The roller (402) has a shaft (402a) projecting forward away from the rolling track (404a) to assemble regulator arm (300) through nut (401) and washer (405).



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

(54) Title of the invention : REGULATED AIRFLOW FOR MOVABLE ICE TRAY

(51) International classification :F25C0001240000,
F25D0025020000,
F25C0001040000,
F25D0025040000,
B32B0037000000

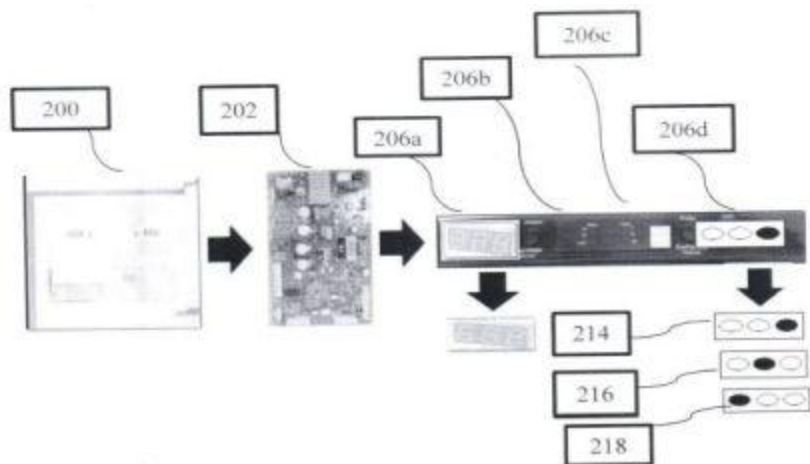
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)LG ELECTRONICS INC.
Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu,
Seoul 150-721, Republic of Korea Republic of Korea

(72)Name of Inventor :
1)KUMAR DEVENDER

(57) Abstract :

As system (100) and method (300) for making an ice fast in refrigerator freezer (200) section as per the time set by the user in the refrigerator controller (202) and detecting the location of the detachable ice tray (204) and directs the airflow form fixed vents (208) by providing air diverting wings (212) inside the vents (208).The system further discloses the best detachable ice tray (204) location consuming minimum time for ice preparation and displays it on the refrigerator third display(206c).



No. of Pages : 22 No. of Claims : 18

(54) Title of the invention : A QUICK JOINT ASSEMBLY FOR JOINING AIRFRAME SECTIONS AND A METHOD THEREOF

(51) International classification :E21B0017042000,
A61K0036888400,
E21B0017000000,
G06F0009480000,
A43C0015160000

(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)Chairman, Defence Research and Development Organisation

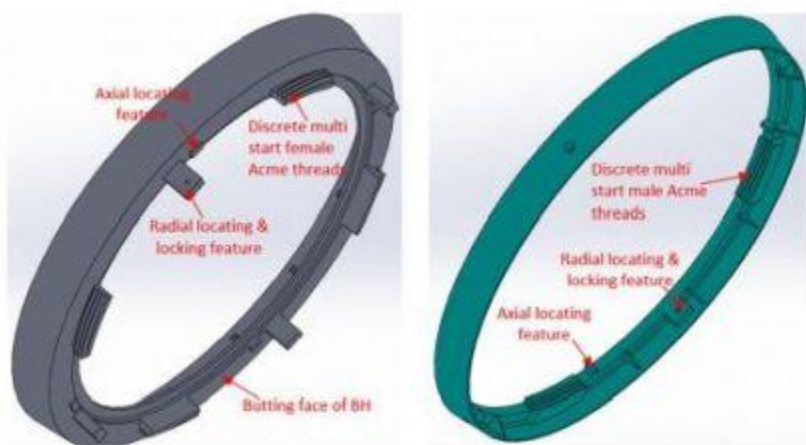
Address of Applicant :Ministry of Defence, Govt. of India,
Room No. 348, B €“ Wing, DRDO Bhawan, Rajaji Marg, New
Delhi- 110011, Delhi India

(72)Name of Inventor :

1)Tarak Nath De**2)Guddati Vamsi Krishna****3)Pankaj Kumar Baser****4)Rajesh Kumar Burman****5)Badiganti Veera Sekhar**

(57) Abstract :

The present invention mainly relates to a field of joining of airframe sections. In one embodiment, the present invention relates to a quick joint assembly for joining airframe sections, the assembly comprises: a first cylindrical bulkhead (BH) mating section having plurality of discrete multi-start female Acme threads and plurality of locaters cum arrestors, wherein the plurality of discrete multi-start female Acme threads and radial locaters cum arrestors are equally distributed and positioned in the first cylindrical bulkhead (BH) mating section for uniform stiffness in all directions of the first cylindrical bulkhead (BH) mating section and a second cylindrical BH mating section having plurality of discrete multi-start male Acme threads and plurality of locaters cum arrestors, wherein the plurality of discrete multi-start male Acme threads and radial locaters cum arrestors are equally distributed and positioned at corresponding locations to the plurality of discrete multi-start female Acme threads and radial locaters cum arrestors of the first cylindrical bulkhead (BH) mating section.



No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811049016 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : INJECTION MOULD FOR AMMUNITION MAGAZINE WITH METALLIC INSERTS

(51) International classification :B29C0033000000,
B29C0045140000,
B29C0045260000,
B29C0045270000,
B29C0045330000

(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)Chairman, Defence Research and Development Organisation

Address of Applicant :Ministry of Defence, Govt. of India,
Room No. 348, B €“ Wing, DRDO Bhawan, Rajaji Marg, New
Delhi- 110011, India Delhi India

(72)Name of Inventor :

1)Poolla Srinivasa Siva Rama Krishna Prasad

2)Navneet Verma

3)Narendra Kumar

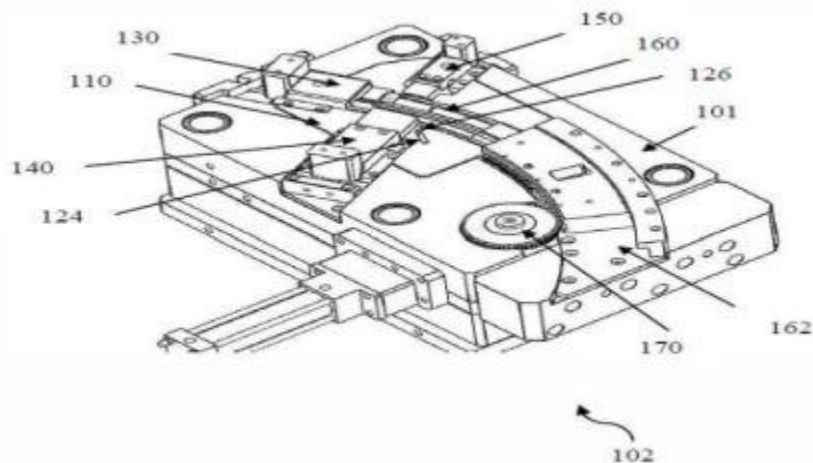
4)Vishweshwar Krishna Dixit

5)Nitin Arun Dighe

6)Pundalik Eknath Yadav

(57) Abstract :

The present invention provides an injection molding assembly (100). The injection molding assembly (100) is used for molding an ammunition magazine having a plurality of metallic inserts in order to increase strength of the magazine. The injection molding assembly (100) includes a mould cavity (103), (110), a feed system (120), a top core (130), side cores (140), (150), a central core (160), and an ejector unit (180). The injection mold assembly (100) facilitates positioning and gripping of a plurality of metallic inserts (141), (151) and (161) in the magazine at appropriate locations thereof during molding process by a movement of cores (130), (140), (150) and (160) in predefined directions.



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

(54) Title of the invention : A SYSTEM AND METHOD FOR HAZARD LIGHT OPERATION

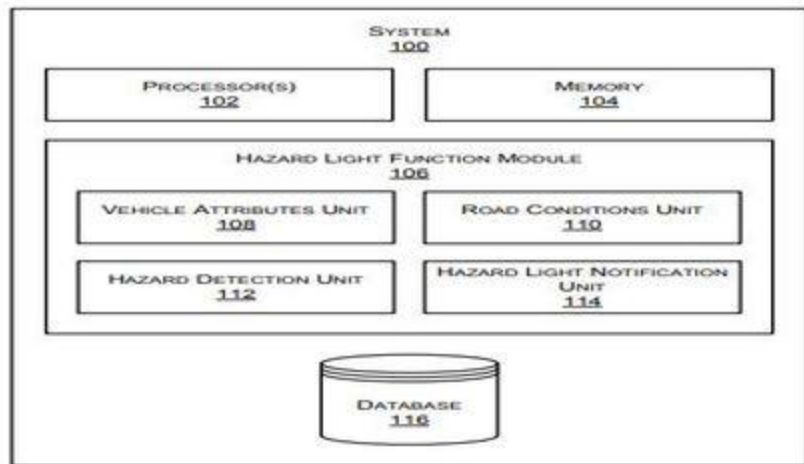
(51) International classification :G08G0001096700,
B60W0050140000,
G06F0009380000,
G01C0021360000,
B60W0050080000

(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

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(72)Name of Inventor :
1)Ms. Aimee Ritter
2)Mr. Vedran Curgus

(57) Abstract :

The present disclosure provides a system and method to operate hazard lights of a vehicle at the right juncture. The system determines the speed of the vehicle and compares it to the legal speed limit as determined by the traffic system, and if the vehicle is slower than the determined speed limit, then in congruence with the road grade, issues a notification to the driver of the vehicle to engage the hazard lights. The system further notifies the driver when to turn OFF the hazard lights. The system further advises the driver to switch lanes to a lane with a lower speed. The system further checks for conditions along the route of the vehicle where hazard lights may be prohibited and notifies the driver. Further, the system can be automated.



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

(54) Title of the invention : A DEVICE TO DETECT OIL LEAKAGE IN VEHICLES AND A METHOD THEREOF

(51) International classification :H04M0019040000,
G01S0005020000,
H05B0041282000,
H04B0001717600,
H02J0050900000

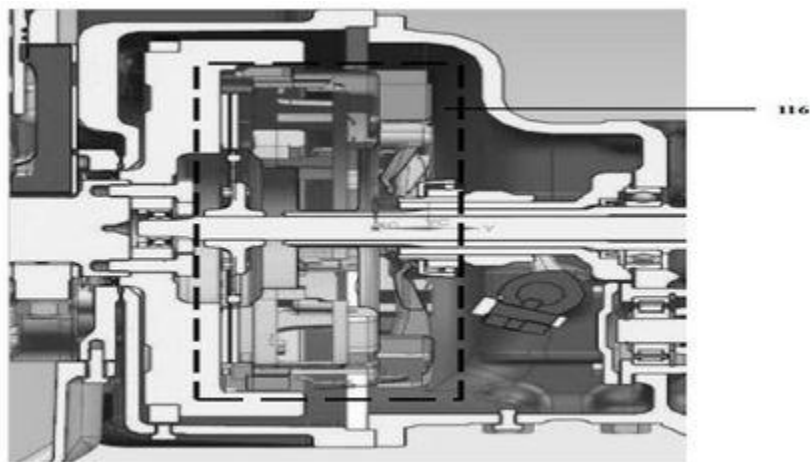
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Pankaj Kumar Raghav

(57) Abstract :

A device 100 to detect oil leakage in vehicles and a method thereof is disclosed. The device 100 includes a body 102, the body 102 defines an opening 104 to receive leaky fluid, a cover 114 connected to the body 102, at least one input terminal 106 and at least one output terminal 108 disposed in the body 102, a floating member 110 disposed in the cover 114 and adapted to move between a first position and a second position, the first position being towards the cover 114 and the second position being towards the input terminal 106 and the output terminal 108, respectively and a controller in communication with the input terminal 106 and the output terminal 108. The controller is adapted to generate a signal in responsive of connection of the floating member 110 with the input terminal 106 and the output terminal 108 to detect fluid leakage.



No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION
PUBLICATION

(21) Application No.201817049297 A

(19) INDIA

(22) Date of filing of Application
:27/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEMS AND METHODS FOR DETERMINING DRIVING ACTION IN AUTONOMOUS DRIVING

(51) International classification :G08G0001160000,
G05D0001020000,
G05D0001000000,
G01C0021340000,
G08G0001010000

(31) Priority Document No :201811547926.7

(32) Priority Date :18/12/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2018/122072
Filing Date :19/12/2018

(87) 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)BEIJING VOYAGER TECHNOLOGY CO., LTD.

Address of Applicant :No. 218,
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(72)Name of Inventor :

1)LUO, WEI

(57) Abstract :

The present disclosure relates to systems and methods for determining a driving action in autonomous driving. The systems may obtain driving information associated with a vehicle; determine a state of the vehicle; determine one or more candidate driving actions and one or more evaluation values corresponding to the one or more candidate driving actions based on the driving information and the state of the vehicle by using a trained driving-action model; select a target driving action from the one or more candidate driving actions based on the one or more evaluation values; determine a target driving path based on the target driving action; and send signals to a control component of the vehicle to direct the vehicle to take the target driving action to follow the target driving path.

No. of Pages : 61 No. of Claims : 15

(12) PATENT APPLICATION
PUBLICATION

(21) Application No.201817049466 A

(19) INDIA

(22) Date of filing of Application
:27/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEMS AND METHODS FOR DETERMINING DRIVING PATH IN AUTONOMOUS DRIVING

(51) International classification :G01C0021340000,
G05D0001020000,
H04N0019910000,
H04B0001100000,
G06Q0010020000

(31) Priority Document No :201811548158.7

(32) Priority Date :18/12/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2018/122102
Filing Date :19/12/2018

(87) International Publication No : NA

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

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

(71)Name of Applicant :

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China China

(72)Name of Inventor :

1)LUO, WEI

(57) Abstract :

The present disclosure relates to systems and methods for determining a driving path in autonomous driving. The systems may obtain a plurality of candidate driving paths;obtain one or more coefficients associated with the plurality of candidate driving paths based on a trained coefficient-generating model;determine a travel cost for each of the plurality of candidate driving paths based on the on one or more coefficients;andidentify a target driving path from the plurality of candidate driving paths based on a plurality of travel costs corresponding to the plurality of candidate driving paths.

No. of Pages : 50 No. of Claims : 15

(12) PATENT APPLICATION
PUBLICATION

(21) Application No.201817049524 A

(19) INDIA

(22) Date of filing of Application
:28/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEMS AND METHODS FOR PROCESSING TRAFFIC OBJECTS

(51) International classification :G05D0001020000,
G06Q0050300000,
B60W0040040000,
G08G0001096200,
G08G0001040000

(31) Priority Document No :201811548552.0

(32) Priority Date :18/12/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2018/122111
Filing Date :19/12/2018

(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

(71)Name of Applicant :

1)BEIJING VOYAGER TECHNOLOGY CO. LTD.

Address of Applicant :No. 218,
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China China

(72)Name of Inventor :

1)GUAN, JIAN

(57) Abstract :

The present disclosure relates to systems and methods for processing traffic objects. The systems may receive detection information associated with a plurality of traffic objects within a predetermined range of a vehicle; extract feature values of a plurality of features of each of the plurality of traffic objects from the detection information; obtain a plurality of feature weights corresponding to the plurality of features of each traffic object; and determine a priority queue associated with the plurality of traffic objects based on a plurality of priority values, each corresponding to each traffic object, wherein the priority value is based on the plurality of feature weights and the feature values of each traffic object.

No. of Pages : 52 No. of Claims : 15

(12) PATENT APPLICATION
PUBLICATION

(21) Application No.201817049546 A

(19) INDIA

(22) Date of filing of Application
:28/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYSTEMS AND METHODS FOR AUTONOMOUS DRIVING

(51) International classification :G06F0003048400,
G05D0001020000,
H04W0004440000,
B60W0030090000,
B60W0030080000

(31) Priority Document No :201811547279.X

(32) Priority Date :18/12/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2018/122097
Filing Date :19/12/2018

(87) International Publication No : NA

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

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

(71)Name of Applicant :

1)BEIJING VOYAGER TECHNOLOGY CO., LTD.

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China China

(72)Name of Inventor :

1)LUO, WEI

(57) Abstract :

The present disclosure relates to systems and methods for autonomous driving. The systems may obtain driving information associated with a vehicle;determine a state of the vehicle;determine one or more candidate control signals and one or more evaluation values corresponding to the one or more candidate control signals based on the driving information and the state of the vehicle by using a trained control model;select a target control signal from the one or more candidate control signals based on the one or more evaluation values; and transmit the target control signal to a control component of the vehicle.

No. of Pages : 55 No. of Claims : 15

(54) Title of the invention : €EVAPORATIVE COOLING SYSTEM, DEVICE AND METHOD OF CONSTRUCTION€ •

(51) International classification :F24F0005000000,
F28D0005020000,
F24F0006040000,
B01D0033720000,
F28C0001140000

(31) Priority Document No :2018286567

(32) Priority Date :24/12/2018

(33) Name of priority country :Australia

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

(87) International Publication No : NA

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

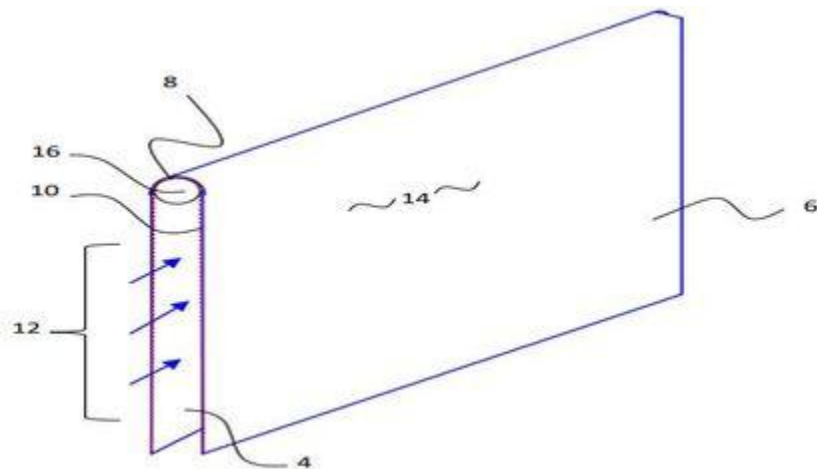
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
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(72)Name of Inventor :
1)Roger Reece
2)Mark Andrew Peristy
3)Ganapathi Subbu Sethuvenkatraman
4)Stuart Andrew Hands
5)Mark Jared Goldsworthy
6)Ronald James Denning

(57) Abstract :

An evaporative cooler and its method of construction are disclosed. The cooler has at least one wet channel 2 defining an airflow path 12. The wet channel 2 has sidewalls 4 and 6 for exposure to the airflow 12 and at least one structural member 8 for supporting at least one of the sidewalls 4 and 6. The structural member 8 provides a conduit 16 for connection to a supply of evaporative liquid so that the structural member 8 is configured for fluid communication between the conduit 16 and at least one of the sidewalls 4 and 6 such that the evaporative liquid flows onto at least one internally facing surface 10 for evaporation by the airflow 12.



No. of Pages : 43 No. of Claims : 36

(54) Title of the invention : FULL-SERVO LABEL INSPECTION MACHINE AND CONTROL METHOD THEREOF

(51) International classification :B08B0009080000,
B65C0009000000,
B41K0003480000,
G01N0021840000,
B65C0009400000

(31) Priority Document No :201811580839.1

(32) Priority Date :24/12/2018

(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

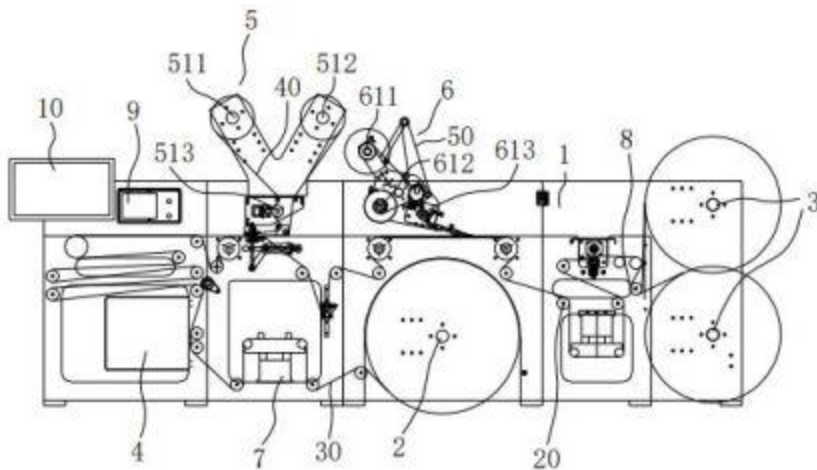
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Guangzhou Pulisi Technology Co., Ltd.
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Road Huangpu District, Guangzhou City Guangdong Province
China 510000 China

(72)Name of Inventor :
1)LIN, Xiaobo
2)I. LIU, Lu

(57) Abstract :

The present invention provide a full-servo label inspection machine and a control method thereof; the machine includes a frame, the frame is provided with an unrolling mechanism, a rolling mechanism, a visual inspection mechanism, a label removal mechanism, and a label replacement mechanism. In the label removal mechanism, when the paper pressing roller is at the label removal position, it presses the material to be inspected downwards to form an angle of less than 180° with the rear end of a label removal plate. After a defective label on the material to be inspected passes the label removal plate, a front end of the defective label curls up and eventually sticks onto the label removal paper. The present invention allows fully automation of the removal and replacement of labels, achieving high inspection efficiency and accuracy.



No. of Pages : 35 No. of Claims : 12

(54) Title of the invention : NEURAL NETWORK TRAINING METHOD AND DEVICE THEREOF AND COMPUTER STORAGE MEDIUM

(51) International classification :G06N0003080000,
G06N0003040000,
G06N0003063000,
G06N0003020000,
G06F0007523000

(31) Priority Document No :107146017

(32) Priority Date :19/12/2018

(33) Name of priority country /region :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

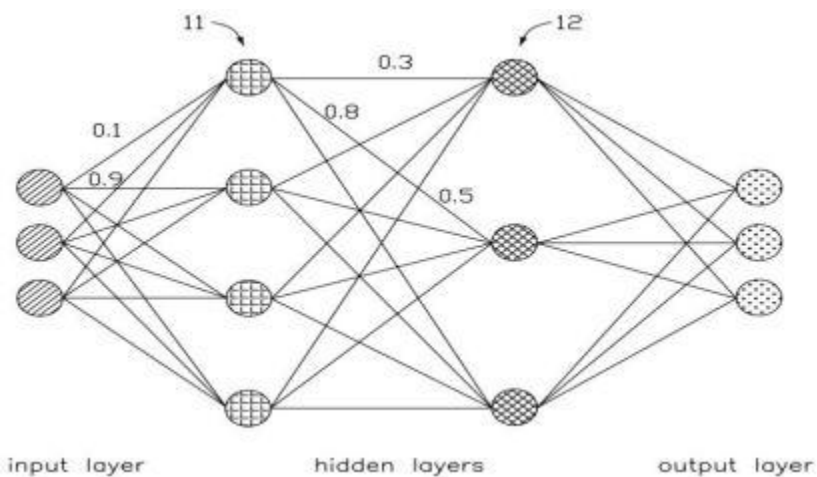
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HON HAI PRECISION INDUSTRY CO., LTD.
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New Taipei City, Taiwan

(72)Name of Inventor :
1)JUNG-YI LIN
2)I-HUA CHEN
3)CHIN-PIN KUO

(57) Abstract :

A neural network training method includes: obtaining a weight value between each two connected nodes of a neural network, wherein the neural network comprises a plurality of nodes and each of the plurality of nodes represents an activation function, the nodes are distributed in a plurality of layers arranged in order of computation, and each of the nodes is connected to all the nodes of a followed neighboring layer; integrating an input value and a corresponding weight value of each of the nodes using an evolutionary computation to dynamically generate an output value; correcting the weight value between each two connected nodes; integrating a corrected weight value and the output value of each of the nodes iteratively to obtain the output value of a corresponding connected node of a followed neighboring layer. A neural network training device and a computer storage medium are also provided.



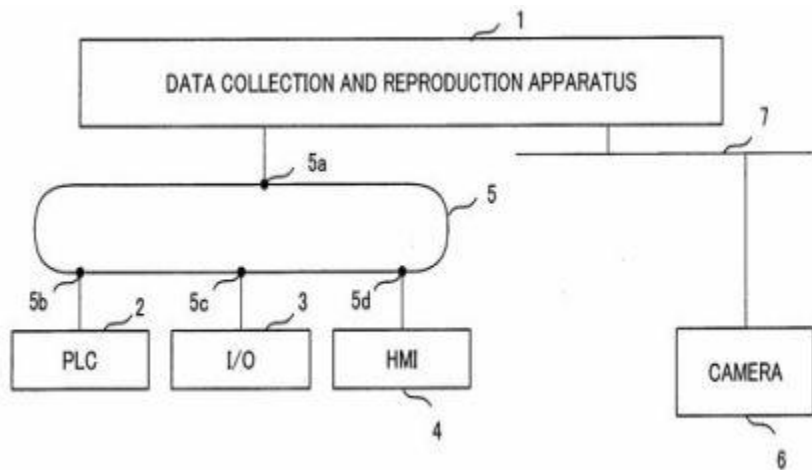
No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : DATA COLLECTION AND REPRODUCTION SYSTEM

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G05B0023020000, G01D0009000000, G06T0011200000, H04N0005232000, H04N0005330000</p> <p>:2018-241379</p> <p>:Japan</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION</p> <p style="padding-left: 20px;">Address of Applicant :3-1-1, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan Japan</p> <p>(72)Name of Inventor :</p> <p>1)FUJIEDA, Hiroyuki</p> <p>2)KONISHI, Katsuhiro</p> <p>3)WATANABE, Kenji</p>
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(57) Abstract :

To provide a data collection and reproduction system capable of confirming images and process data before and after occurrence of an abnormality without any temporal error and suitable for analyzing a cause of the abnormality, the data collection and reproduction system is applied to an industrial plant including an apparatus acting on a sheet-shaped object to be conveyed. A camera 6 includes a part of the sheet-shaped object in its shooting range, and shoots still images. A process data collection unit 12 collects process data of the apparatus at a periodic sampling timing. A camera control unit 14 matches a periodic shooting timing of the camera 6 with the periodic sampling timing. A synchronized display unit 18 displays a graph representing the respective process data at times collected by the process data collection unit 12 and a belt-shaped still image obtained by connecting the respective still images at the times shot by the camera 6 in synchronization.



No. of Pages : 30 No. of Claims : 4

(54) Title of the invention : MODULAR SYSTEM FOR HEAD-MOUNTED DEVICE

(51) International classification :G02B0027010000,
G06T0011000000,
F24S0025600000,
A61B0090500000,
G06F0003010000

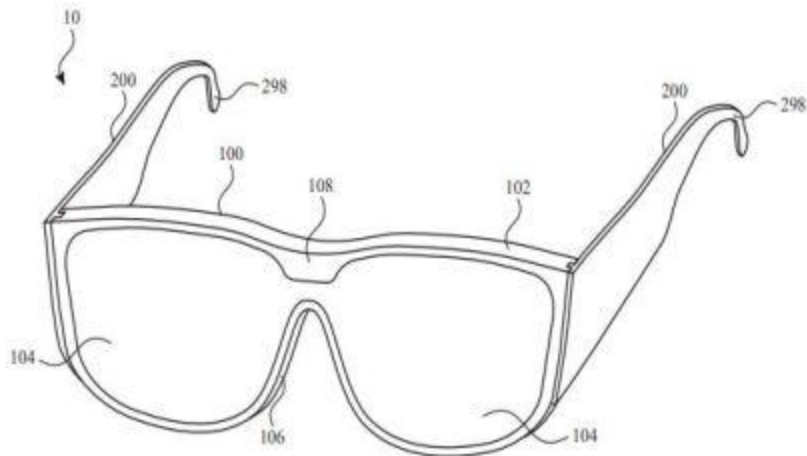
(31) Priority Document No :62/782,260
(32) Priority Date :19/12/2018
(33) Name of priority country :U.S.A.
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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California 95014, United States of America U.S.A.

(72)Name of Inventor :
1)WANG, Paul X.
2)MATHEW, Dinesh C.

(57) Abstract :

Head-mounted devices can be formed as a modular system that provides a variety of different components and functions to achieve the results that are desired by a user. The modular configurations allow a user to easily customize a head-mounted device with one or more arm modules to provide features that integrate with other operations of the frame module of the head-mounted device. The arm modules can be easily exchanged with each other to provide different components and functions at different times. Accordingly, a frame module of a head-mounted device need not include permanent components that provide every function that will later be desired by the user. Instead, the head-mounted device can have expanded and customizable capabilities by the use of one or more arm modules.



No. of Pages : 48 No. of Claims : 20

(54) Title of the invention : ADAS-LINKED ACTIVE HOOD APPARATUS AND METHOD OF CONTROLLING THE SAME

(51) International classification :B60R0021380000,
B60R0021340000,
B60R0021013600,
B60R0021013400,
B60R0021013000

(31) Priority Document No :10-2018-0164669

(32) Priority Date :19/12/2018

(33) Name of priority country :Republic of Korea

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

(87) International Publication No : NA

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

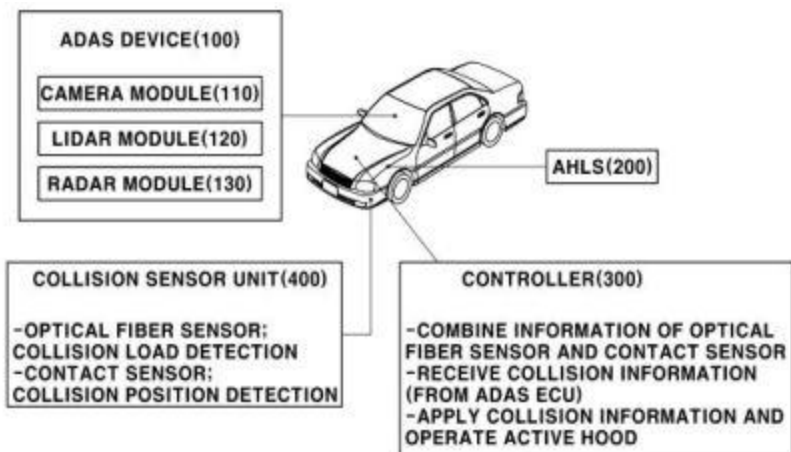
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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06797, Republic of Korea
2)KIA MOTORS CORPORATION

(72)Name of Inventor :
1)KIM, Sang Il
2)HONG, Eun Cheol

(57) Abstract :

An ADAS-linked active hood apparatus includes an ADAS device that measures information regarding a driving state of a vehicle and an object and a collision sensor unit that is positioned at a front of the vehicle and measures collision with the object. An active hood lift system (AHLS) raises one end of a hood of the vehicle based on a signal from the collision sensor unit. A controller sets a pedestrian detection threshold (PDT) turn, receives information regarding a plurality of front objects from the ADAS device to compensate for a PDT, compensates for an output reference value of the collision sensor unit based on the compensated PDT, and determines whether collision occurs using the collision sensor unit to adjust pop-up of the AHLS when an output value equal to or greater than the compensated reference value is applied.



No. of Pages : 28 No. of Claims : 12

(54) Title of the invention : MULTIPLE CHAMBER FOLDED INNERDUCT STRUCTURE

(51) International classification :H02G0009060000,
G02B0006440000,
H02G0003040000,
B29C0065080000,
H01L0029739000

(31) Priority Document No :62/782,437

(32) Priority Date :20/12/2018

(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

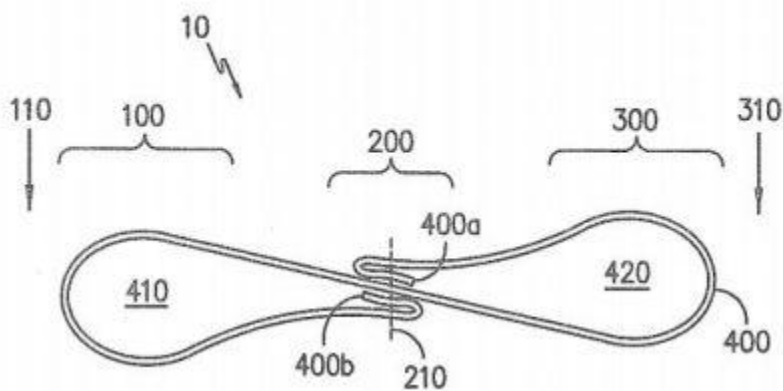
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Milliken & Company
Address of Applicant :920 Milliken Road, Legal Dept. M-495,
Spartanburg, SC, 29303, USA U.S.A.

(72)Name of Inventor :
1)Bedingfield, Steven L.
2)Lee, Kwee C.
3)Chen, Kai

(57) Abstract :

A flexible innerduct structure having a first margin region, a second margin region, and a middle region, where the middle region is located between the first and second margin regions. The innerduct structure contains at least two flexible, longitudinal chambers, with each chamber being designed for enveloping at least one cable. The flexible innerduct structure contains at least one strip-shaped textile, each strip containing a first side and a second edge and extending in the longitudinal direction. All first and second edges of the strips are located in the middle region and each strip-shaped textile extends outwards from the middle region, folds about a fold axis located in either the first or second margin region and returns to the middle region. At least one strip extends from the first to the second margin region and the strips are attached together in the middle region.



No. of Pages : 22 No. of Claims : 29

(54) Title of the invention : MULTIPLE CHAMBER INNERDUCT STRUCTURE

(51) International classification :H02G0009060000,
G02B0006440000,
A61B0017000000,
H01L0029739000,
F28D0007000000

(31) Priority Document No :62/782,449
(32) Priority Date :20/12/2018
(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

(71)Name of Applicant :
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Spartanburg, SC, 29303, USA U.S.A.
(72)Name of Inventor :
1)Bedingfield, Steven L.

(57) Abstract :

A flexible innerduct structure having a first edge, a second edge, a first margin region, a second margin region, and a middle region. The middle region is located between the first and second margin regions. The innerduct structure comprises at least two flexible longitudinal tubes, each longitudinal tube forming two chambers. Each chamber is designed for enveloping at least one cable, where at least one of the longitudinal tubes extends from the first margin region to the second margin region, and wherein the tubes are attached together at an attachment in the middle region.

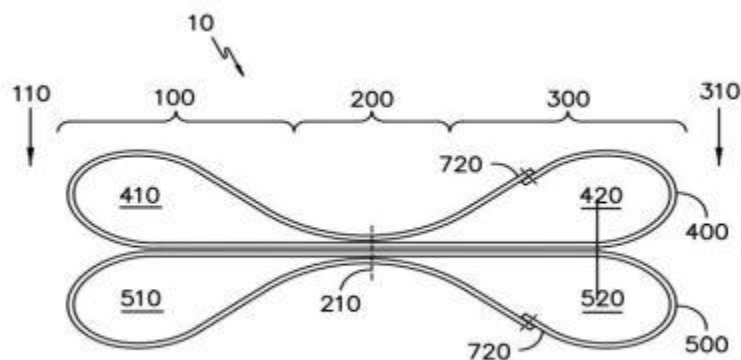


FIG. -1-

No. of Pages : 21 No. of Claims : 28

(54) Title of the invention : VEHICLE SIDE-PORITION STRUCTURE

(51) International classification :B62D0025200000,
B62D0025020000,
B62D0021150000,
B62D0065020000,
B60N0002900000

(31) Priority Document No :2018-237073

(32) Priority Date :19/12/2018

(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

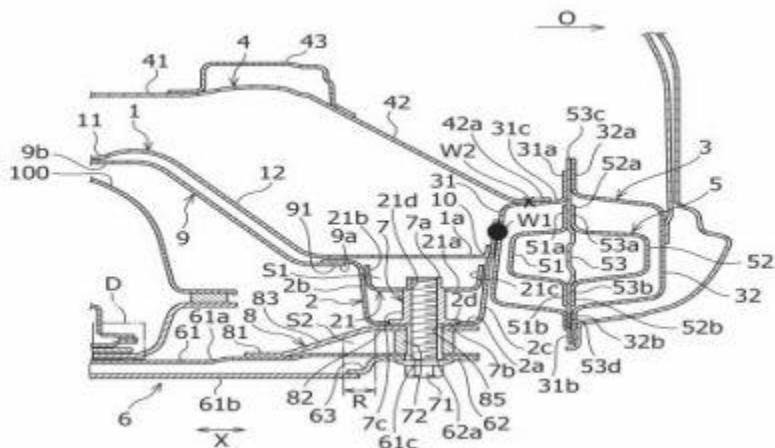
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :
1)Naoki OSHIO

(57) Abstract :

A vehicle side-portion structure includes: side members (2) provided on a lower surface (2a) of a floor panel (1); side sills (3) provided on vehicle outer sides of the side members (2); and an upper cross member (4) which is provided on an upper surface of the floor panel (1) to couple the side sills (3) to each other, and a shock absorbing member (5) is provided inside the side sill (3), in which the side member (2) is located to overlap with the side sill (3) at at least a part thereof in vehicle side view, and in which the side member (2) includes a first joining portion (W1) joined to the side sill (3), and the first joining portion (W1) is located to overlap with a vehicle inner upper portion of the shock absorbing member (5) in vehicle side view.



No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : VEHICLE LOWER PORTION STRUCTURE

(51) International classification :B62D0025080000,
B62D0021020000,
B21D0022020000,
B60N0002680000,
B62D0021110000

(31) Priority Document No :2018-237072

(32) Priority Date :19/12/2018

(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

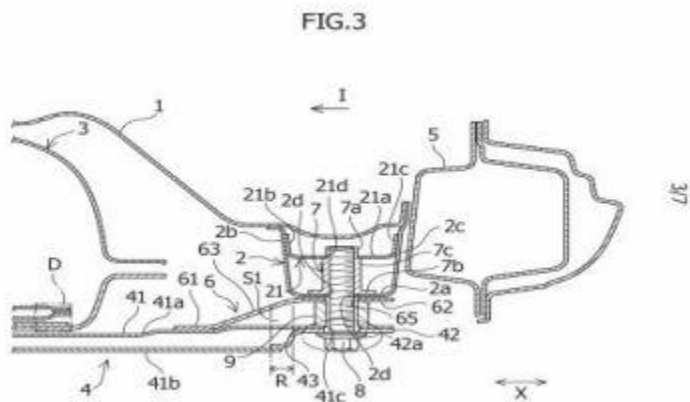
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :
1)Keisuke KAWAI

(57) Abstract :

A pair of side members (2), a power source member (3), and a cross member (4) that connects the side members (2) are included, the cross member (4) includes: a main body portion (41) to which the power source member (3) is fixed; and flange portions (42) fixed to the side members (2), each of the side members (2) and each of the flange portions (42) are fixed to each other via a bracket member (6), and a closed cross section (SI) is formed by combining the bracket member (6) and the cross member (4), the closed cross section (SI) is arranged in a position that crosses a boundary region (R) between the main body portion (41) and the flange portion (42), and the bracket member (6) includes a cross-member-side fixing portion (61) fixed to the cross member (4) in a position on an inner side.



No. of Pages : 27 No. of Claims : 6

(54) Title of the invention : E-COMMERCE PLATFORM WITH AUGMENTED REALITY APPLICATION FOR DISPLAY OF VIRTUAL OBJECTS

(51) International classification :G06T0019000000,
G06K0009620000,
G03B0015000000,
G01C0021200000,
G06T0003000000

(31) Priority Document No :16/229,369
(32) Priority Date :21/12/2018
(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

(71)Name of Applicant :
1)Shopify Inc.
Address of Applicant :150 Elgin Street, 8th Floor, Ottawa, ON
K2P 1L4, Canada Canada
(72)Name of Inventor :
1)Daniel BEAUCHAMP

(57) Abstract :

Disclosed are systems and methods for augmenting a customer image with at least one virtual object. One or more customer images depicting a customer environment are received from a customer computing device and 3D feature data for the customer images is determined. A virtual object is determined which corresponds to a desired merchant item. A positioning signal is received which corresponds to a desired location of virtual object in the customer environment, and a corresponding first location in each customer image at which to overlay the virtual object using the positioning signal is determined. An appropriate size and orientation of the virtual object is determined for each customer image based on corresponding 3D feature data, causing an overlay of an appropriately sized and oriented virtual object at the corresponding first location in customer images.

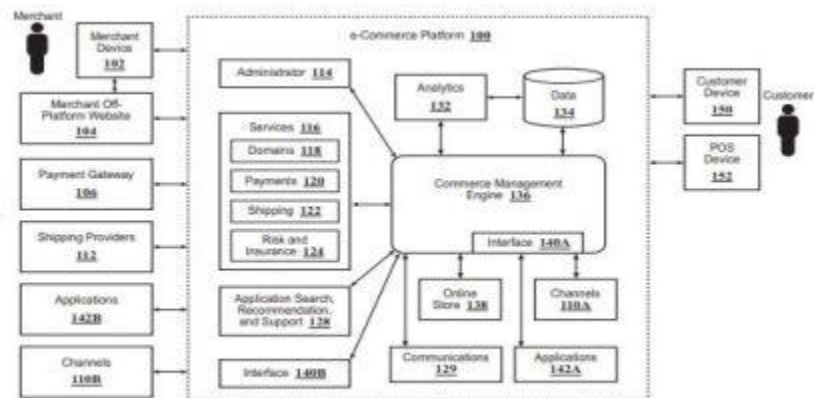


FIG. 1

No. of Pages : 56 No. of Claims : 15

(54) Title of the invention : SYSTEM AND METHOD OF UTILIZING COMPUTER-AIDED OPTICS

(51) International classification :G06T0019000000,
A61B0003113000,
G02B0027010000,
G06F0003048100,
G02B0027000000

(31) Priority Document No :62/781908
(32) Priority Date :19/12/2018
(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

(71)Name of Applicant :
1)ALCON INC.
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Switzerland Switzerland
(72)Name of Inventor :
1)Dominik Lerm
2)Stefan Schmid
3)Stefan Koch
4)Joerg Grampp
5)Berndt Warm
6)Peter Martin

(57) Abstract :

The disclosure provides a system that may provide a virtual object at a first virtual distance to an eye of a patient; may provide a first light wave to the eye; may receive a first perturbed light wave, based at least on the first light wave, from the eye; may determine first optical corrections based at least on the first perturbed light; may provide the virtual object at a second virtual distance to the eye; after providing the virtual object at the second virtual distance, may provide a second light wave to the eye; may receive a second perturbed light wave, based at least on the second light wave, from the eye; may determine second optical corrections based at least on the second perturbed light; and may determine a corrective optical solution for the eye based at least on the first optical corrections and the second optical corrections.

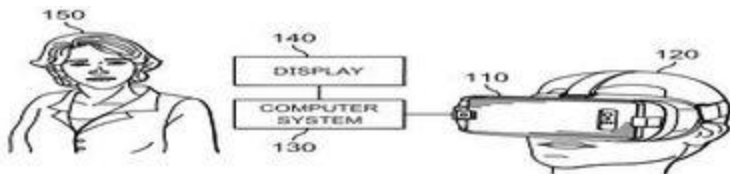


FIG. 1A

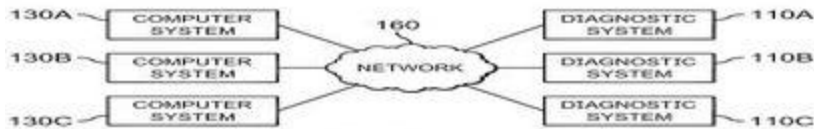


FIG. 1B

No. of Pages : 41 No. of Claims : 20

(54) Title of the invention : VEHICLE TRANSMISSION STRUCTURE

(51) International classification :F16H0063180000,
F16H0063300000,
F16H0063320000,
F16H0057020000,
F16H0063340000

(31) Priority Document No :2018-239365

(32) Priority Date :21/12/2018

(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

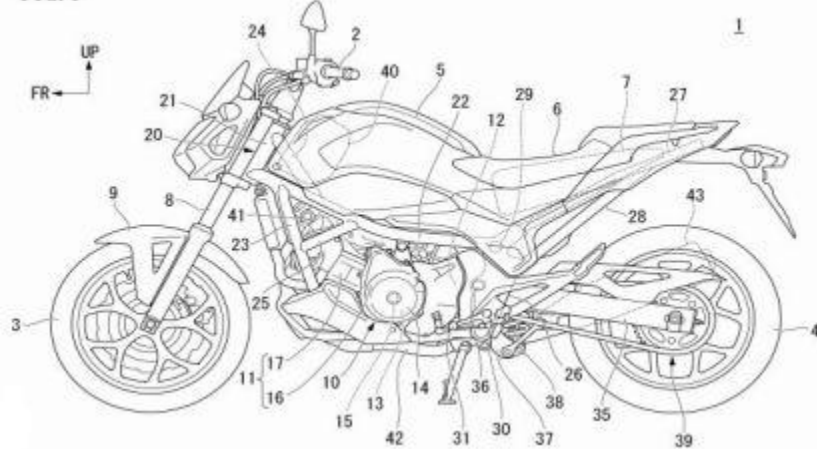
(71)Name of Applicant :
1)HONDA MOTOR CO., LTD.
Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan Japan

(72)Name of Inventor :
1)ISHII Naoki
2)MUNENO Yoshihiko

(57) Abstract :

A vehicle transmission structure of an embodiment includes a shift drum (51) which rotates in accordance with a shift operation; a bearing member (52) which rotatably supports the shift drum (51) with respect to a transmission case (19); a set member (53) which positions the bearing member (52); a shift fork shaft (54) supported by the transmission case (19); and a shift fork supported by the shift fork shaft (54) to be movable in an axial direction. An end portion of the shift fork shaft (54) is movably fitted to an insertion hole (46) provided in the transmission case (19), a cap (80) is provided at an end portion of the shift fork shaft (54), a first gap (85) is provided between an end surface of the insertion hole (46) and the cap, the set member (53) is disposed at a position overlapping the insertion hole (46) when viewed in the axial direction, and a second gap (86) is provided between an end surface of the insertion hole (46) and the set member (53).

FIG. 1



No. of Pages : 34 No. of Claims : 5

(54) Title of the invention : VEHICLE FRONT PORTION STRUCTURE

(51) International classification :H01L0033600000,
B60R0019180000,
F16F0003087000,
B60R0021340000,
H01L0023482000

(31) Priority Document No :2018-238699

(32) Priority Date :20/12/2018

(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

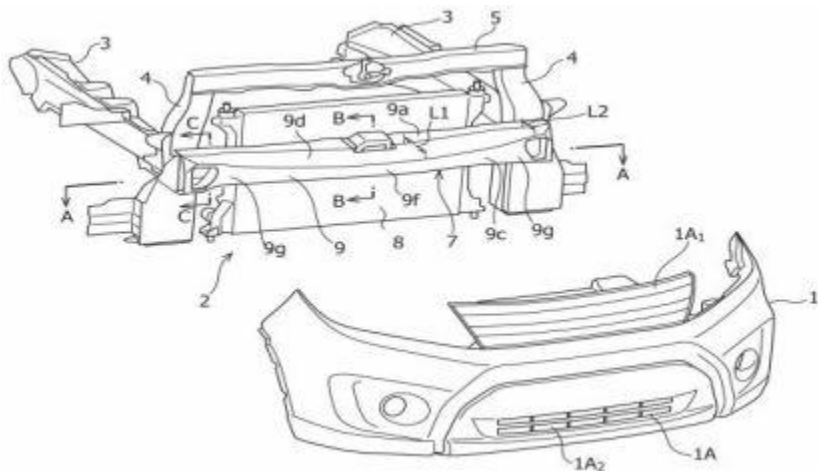
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUZUKI MOTOR CORPORATION
Address of Applicant :300, Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 4328611, Japan. Japan

(72)Name of Inventor :
1)Hironao YASHIRO
2)Yoichi GOTO

(57) Abstract :

A front surface portion (9a) and an upper surface portion of the impact absorbing member (9) are formed to be connected by an inclined surface (9d) extending obliquely downward to the front, and the front surface portion (9a) and a bottom surface portion of the impact absorbing member (9) are formed to be connected by an inclined surface (9e) extending obliquely upward to the front. A gap portion (G) is provided between the impact absorbing member (9) and the bumper member (7). The front surface portion (9c) of the impact absorbing member (9) protrudes more forward toward the vehicle-width-direction center in plan view, and the inclined surface (9d) is formed to become wider in a vertical direction toward a vehicle-width-direction center (9f).



No. of Pages : 21 No. of Claims : 3

(54) Title of the invention : STRADDLED VEHICLE

(51) International classification :B62D0035020000,
B62J0006040000,
B62K0011100000,
B62D0025200000,
B60Q0001000000

(31) Priority Document No :2018-239808

(32) Priority Date :21/12/2018

(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

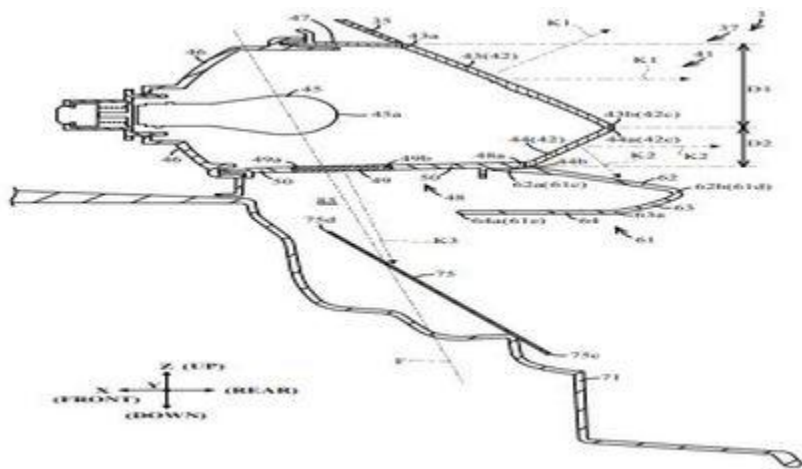
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)YAMAHA HATSUDOKI KABUSHIKI KAISHA
Address of Applicant :2500, Shingai, Iwata-shi, Shizuoka 438-8501 Japan Japan

(72)Name of Inventor :
1)Tatsuki DOI

(57) Abstract :

A taillight (41) includes a first light source (45), a first exposed portion (42), and a bottom (48). The first exposed portion (42) includes a first light transmitting portion (43) and a second light transmitting portion (44). The first light transmitting portion (43) extends downward and rearward in a vehicle center section. The second light transmitting portion (44) extends downward and forward from a rear end (43b) of the first light transmitting portion (43) in the vehicle center section. The bottom (48) includes a third light transmitting portion (49). The rear undercover (61) includes a first portion (62) extending downward and rearward from a lower end (44b) of the second light transmitting portion (44) and a rear end (48a) of the bottom (48) in the vehicle center section. The rear undercover (61) includes a rear end (61 d) located more rearward than the rear end (43b) of the first exposed portion (43) in the vehicle center section. The rear end (61 d) of the rear undercover (61) is located more rearward than a rear end (75c) of a license plate (75) in the vehicle center section.



No. of Pages : 69 No. of Claims : 15

(54) Title of the invention : A METHOD AND AN APPARATUS FOR MANUFACTURING ROD-LIKE ARTICLES FOR TOBACCO INDUSTRY

(51) International classification :A24C0005280000,
A24D0003020000,
A24C0005320000,
A24C0005350000,
A24C0001300000

(31) Priority Document No :EP18214022.8

(32) Priority Date :19/12/2018

(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

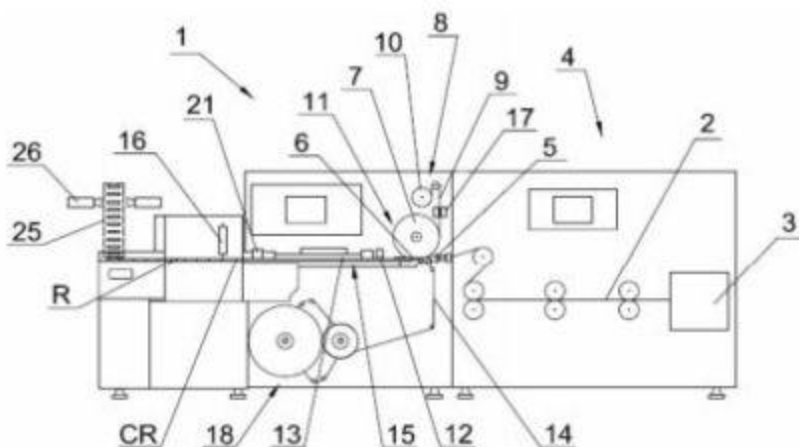
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)International Tobacco Machinery Poland Sp. z o.o.
Address of Applicant :ul. Andrzeja Stanikowskiego 2, 26-600
Radom, Poland Poland

(72)Name of Inventor :
1)SIKORA, Leszek

(57) Abstract :

A method for manufacturing rod-like articles for tobacco industry, the rod-like articles comprising longitudinal inserts located in a filling material, the method comprising: feeding a continuous moving tape-like wrapper (14); feeding a strand of the filling material (2) onto the moving wrapper (14); feeding an insert material (9), in a form of a tape having weakenings (30), into the strand of the filling material (2); wrapping the wrapper (14) around the strand of the filling material (2) with the insert material (9) to form a continuous rod (CR); cutting the moving continuous rod (CR) with a cutting head (16) at a cutting plane that traverses the weakening (30) in the tape (9) of the insert material to form discrete rod-like articles (R) terminating at ends; comparing the ends of the insert (9 A) in the rod like articles (R) with a predefined model to obtain a measure of similarity; and performing an adjustment operation of the cutting head (16) with respect to the movement of the continuous rod (CR), responsive to the measured similarity, to return the highest similarity between the ends of the insert (9A) in the rod like article (R).



No. of Pages : 28 No. of Claims : 18

(54) Title of the invention : TENSIONER WITH PISTON CONTAINING AN INTERNAL CHECK VALVE

(51) International classification :F16H0007080000,
F16K0015020000,
F04C0029120000,
F04B0053120000,
F16F0009348000

(31) Priority Document No :62/784,257

(32) Priority Date :21/12/2018

(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

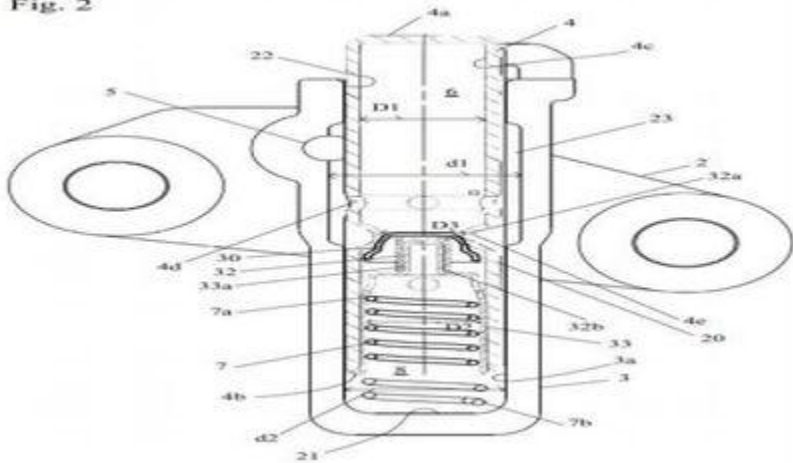
(71)Name of Applicant :
1)BorgWarner Inc.
Address of Applicant :Patent Department 3850 Hamlin Road
Auburn Hills, Michigan 48326, United States of America U.S.A.

(72)Name of Inventor :
1)Keith B. Cobb
2)Paul Freemantle
3)Robert G Williamson
4)Adam C Hunt
5)Seongdo Hong

(57) Abstract :

A hydraulic tensioner for an internal combustion engine for tensioning a span of a chain or a belt has a piston with an internal reservoir connected to a high pressure chamber through a check valve assembly. The check valve assembly has a disk seat formed by an internal bulge within the piston; a check valve retainer within the piston, and a moveable disk that is received between the disk seat formed by the internal bulge and the check valve retainer and is moveable between a first position and a second position, and a check valve spring that is received between the check valve disk and the check valve retainer.

Fig. 2



No. of Pages : 15 No. of Claims : 14

(54) Title of the invention : STRADDLE-TYPE VEHICLE

(51) International classification :B60W0010060000,
F02B0037000000,
B60L0007260000,
H02J0007140000,
F02D0029020000

(31) Priority Document No :2018-241209

(32) Priority Date :25/12/2018

(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

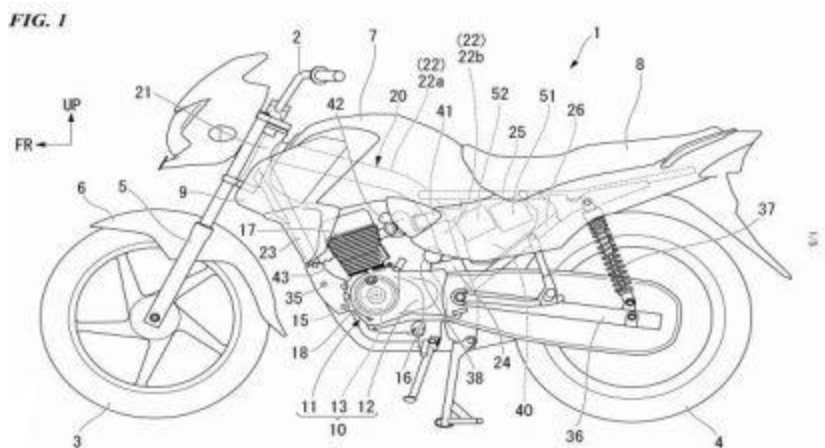
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HONDA MOTOR CO., LTD.
Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan

(72)Name of Inventor :
1)SAKANE Taiki
2)TSUYUGUCHI Makoto
3)ISHIMI Shugo
4)HAMAUZU Akira

(57) Abstract :

A motorcycle (1) includes: an engine (11) which is a power source of a vehicle; a generator (13) which generates electricity using the rotation of the engine (11); an FI-ECU (51) which controls the engine (11); and an ACG-ECU (52) which is provided separately from the FI-ECU (51) and controls the generator (13).



No. of Pages : 26 No. of Claims : 9

(54) Title of the invention : METHOD FOR MEASURING DISTANCE BY APPROPRIATE FOURIER TRANSFORM AND RADAR SYSTEM FOR IMPLEMENTING THE METHOD

(51) International classification :G01S0007020000,
G01S0013020000,
G01R0019250000,
G01S0013870000,
G01S0005020000

(31) Priority Document No :1873303

(32) Priority Date :20/12/2018

(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

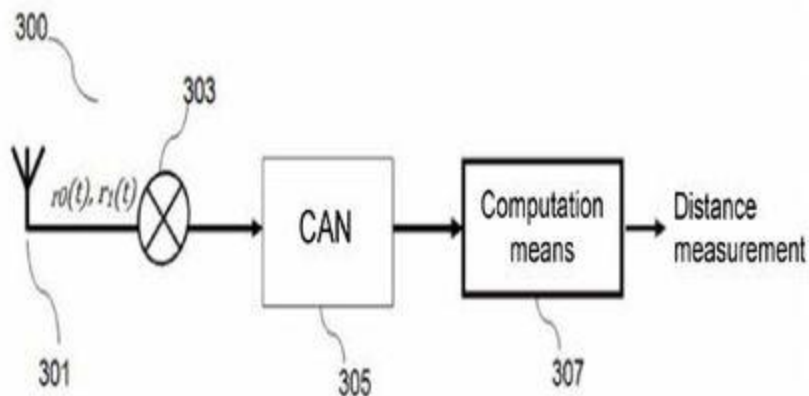
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)THALES
Address of Applicant :Tour Carpe Diem, Place des Corolles
Esplanade Nord, 92400 COURBEVOIE, France France

(72)Name of Inventor :
1)MAZEAU Thierry
2)GARREC Patrick

(57) Abstract :

Radar system (300) configured to determine radar-ground distance measurements. The radar system (300) comprises transmission and reception means (301) configured to transmit two radiofrequency signals towards the ground and to receive the signals obtained by the reflection of the two transmitted signals by the ground and computation means (307) configured to determine the frequential representations of the transmitted signals and of the received signals and determine a frequential quantity as a function of the frequential representations. The radar system (300) is characterized in that the computation means (307) are configured to: - sample the frequential quantity over a determined number of samples, which provides a sampled signal; - determine a number of frequency measurements as a function of a constant distance measurement accuracy value; - determine frequency measurements by applying to the sampled signal a spectral decomposition by fast Fourier transform using a decimation of the sampled signal in a ratio dependent on the distance measurement accuracy value, and - determine a distance measurement corresponding to each frequency measurement.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914050493 A

(19) INDIA

(22) Date of filing of Application :06/12/2019

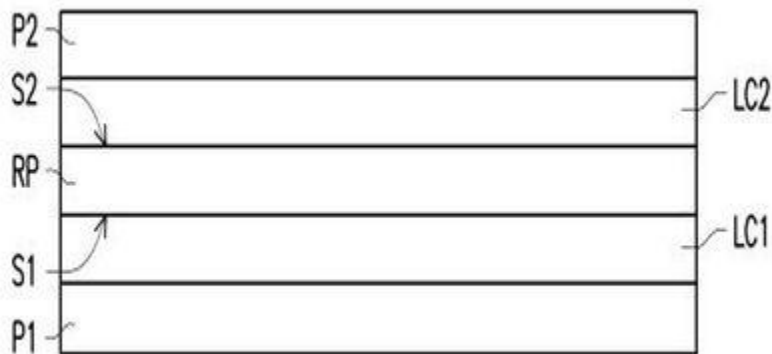
(43) Publication Date : 26/06/2020

(54) Title of the invention : POLARIZER MODULE AND OPERATION METHOD THEREOF

(51) International classification	:G02F0001133500, G02F0001133630, G02F0001134700, H01L0031068000, G02F0001139000	(71)Name of Applicant : 1)AU OPTRONICS CORPORATION Address of Applicant :NO. 1, LI-HSIN ROAD 2, SCIENCE- BASED INDUSTRIAL PARK, HSIN-CHU, TAIWAN
(31) Priority Document No	:107146583	(72)Name of Inventor : 1)Syuan-Ling YANG
(32) Priority Date	:22/12/2018	2)Guan-Yu CHEN
(33) Name of priority country /region	:Taiwan	3)Chao-Wei LI
(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 polarizer module and an operation method thereof. The polarizer module includes a bifacial reflective polarizer, a first liquid crystal layer, a second liquid crystal layer, a first polarizer, and a second polarizer. The bifacial reflective polarizer has a first surface and a second surface opposite to each other. The first liquid crystal layer and the second liquid crystal layer are disposed on the first surface and the second surface respectively. The first polarizer and the second polarizer are disposed on the first liquid crystal layer and the second liquid crystal layer respectively.



No. of Pages : 34 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914050768 A

(19) INDIA

(22) Date of filing of Application :09/12/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : HYDROCARBON MARINE FUEL OIL

(51) International classification	:C10L0001140000, C10M0169040000, B01J0021040000, C10L0001188000, C08L0033240000	(71) Name of Applicant : 1)INFINEUM INTERNATIONAL LIMITED Address of Applicant :P.O. Box 1, Milton Hill, Abingdon, Oxfordshire OX13 6BB, United Kingdom, U.K.
(31) Priority Document No	:18214521.9	(72) Name of Inventor :
(32) Priority Date	:20/12/2018	1)RAE, Robert
(33) Name of priority country	:EPO	2)KERBY, Paul
(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 liquid hydrocarbon marine fuel oil comprises a marine distillate fuel or a heavy fuel oil or a blend thereof containing an additive combination comprising: (A) a polyalkenyl-substituted carboxylic acid or anhydride, and (B) a metal hydrocarbyl-substituted hydroxybenzoate and/or sulfonate detergent, where the mass:mass ratio of (A) to (B) is in the range of 20:1 to 1:20 and the treat rate of the additive combination is in the range of 5 to 10000 ppm by mass.

No. of Pages : 21 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914050792 A

(19) INDIA

(22) Date of filing of Application :09/12/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : OIL ANTI-FOULANT AND/OR ASPHALTENE AGGLOMERATION PROCESS

(51) International classification	:C10M0169040000, C10L0001140000, C10L0001198000, C08K0005420000, C07F0003000000	(71) Name of Applicant : 1)INFINEUM INTERNATIONAL LIMITED Address of Applicant :P.O. Box 1, Milton Hill, Abingdon, Oxfordshire OX13 6BB, United Kingdom U.K.
(31) Priority Document No	:18214517.7	(72) Name of Inventor :
(32) Priority Date	:20/12/2018	1)KERBY, Paul
(33) Name of priority country	:EPO	2)MARANSKI, Krzysztof
(86) International Application No	:NA	3)SUTKOWSKI, Andrew
Filing Date	:NA	4)KYLE, Nicola
(87) 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 :

Fouling and/or asphaltene agglomeration (or flocculation) in midstream processes and transportation and in upstream transportation of a hydrocarbon oil is reduced by providing in the oil an additive combination comprising; (A) a polyalkenyl-substituted carboxylic acid or anhydride, and (B) a metal detergent system comprising a hydrocarbyl-substituted hydroxybenzoate metal salt or a hydrocarbyl-substituted sulfonate metal salt or a mixture of both salts or a complex thereof, where the mass:mass ratio of (A) to (B) is in the range of 20:1 to 1:20 and the treat rate of the additive is in the range of 5 to 10000 ppm by mass.

No. of Pages : 24 No. of Claims : 14

(54) Title of the invention : TOUCHSCREEN DISPLAY DEVICE

(51) International classification :G06F0003044000,
G09G0003360000,
G06F0003041000,
H04Q0011040000,
G06F0003140000

(31) Priority Document No :10-2018-0168275

(32) Priority Date :24/12/2018

(33) Name of priority country :Republic of Korea

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

(87) International Publication No : NA

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

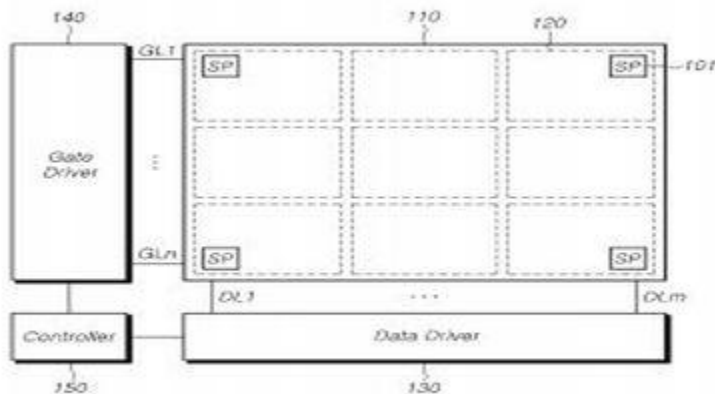
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)LG DISPLAY CO., LTD
Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu,
Seoul 07336, Republic of Korea Republic of Korea

(72)Name of Inventor :
1)Kim, SeokSu

(57) Abstract :

A touchscreen display device is provided. The touchscreen display device comprises a plurality of gate lines, through which a gate signal is transferred; a plurality of data lines, through which a data signal is transferred; a plurality of subpixels connected to the plurality of gate lines and the plurality of data lines; a plurality of touch electrodes connected to the plurality of gate lines, and respectively storing a charging voltage in response to the gate signal; and a controller detecting a touch in response to the charging voltage stored in the plurality of touch electrodes.



No. of Pages : 39 No. of Claims : 18

(54) Title of the invention : ELEVATOR SYSTEM

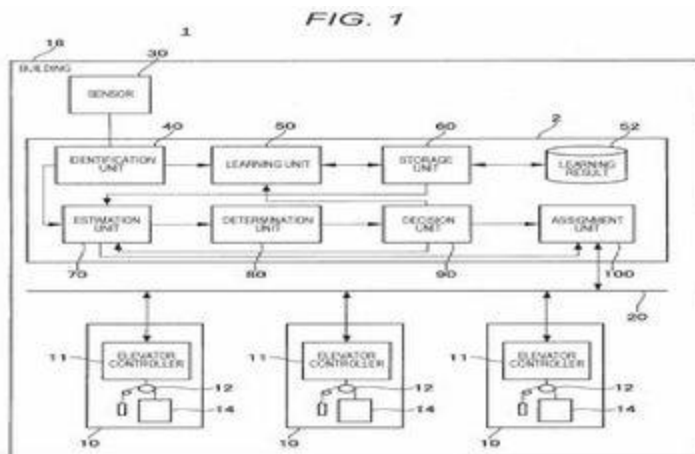
(51) International classification :G07C0005000000,
B66B0005000000,
G06K0009000000,
B66B0001340000,
A61B0005000000

(31) Priority Document No :2018-240568
(32) Priority Date :25/12/2018
(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 :
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Address of Applicant :6-6, Marunouchi 1-chome, Chiyoda-ku,
Tokyo 100-8280, Japan
(72)Name of Inventor :
1)Hidemitsu Naya
2)Takamichi Hoshino
3)Satoru Toriyabe
4)Takahiro Hatori
5)Tomoaki Maehara

(57) Abstract :

An elevator system includes a sensor, an identification unit that identifies a subject based on measurement data, and an estimation unit that estimates the next behavior of the subject which uses an elevator within a current measurement region based on a current actual behavior of the subject identified by the identification unit, and a learning result indicating a behavior pattern of the subject learned by the past measurement data. The elevator system includes a determination unit that determines whether or not the actual behavior of the subject matches the next behavior of the subject estimated by the estimation unit, and outputs a determination result, a decision unit that decides the next behavior of the subject based on the determination result, and an assignment unit that assigns a service to an elevator based on the decided next behavior of the subject.



No. of Pages : 82 No. of Claims : 15

(54) Title of the invention : METHOD FOR PRODUCING A CURRENT-CONDUCTING COPPER STRAND-COPPER STRIP-CONNECTION

(51) International classification :H01R0043080000,
B23K0026200000,
E04D0013000000,
F28F0001360000,
B32B0007120000

(31) Priority Document No :102018222406.4

(32) Priority Date :20/12/2018

(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

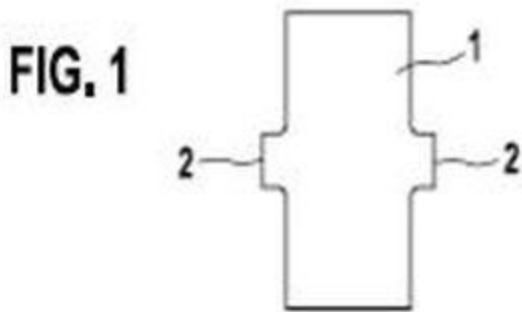
(62) Divisional to Application Number :NA
Filing Date :NA

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2)SOLF, Christian
3)RITT, Jean-Marc
4)KOHLER, Stephan

(57) Abstract :

In a method for producing a current-conducting copper strand-copper strip-connection, wherein a window is introduced into a copper strip, the copper strip is bent in a U-shape and the copper strand is inserted into the U-shape of the copper strip, wherein the copper strand and the copper strip are welded together through the window via a laser welding process.



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

(54) Title of the invention : HYDRAULIC STEERING UNIT

(51) International classification :B62D0005080000,
B62D0005093000,
B62D0005140000,
B62D0005065000,
F15B0011000000

(31) Priority Document No :102018133300.5

(32) Priority Date :21/12/2018

(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

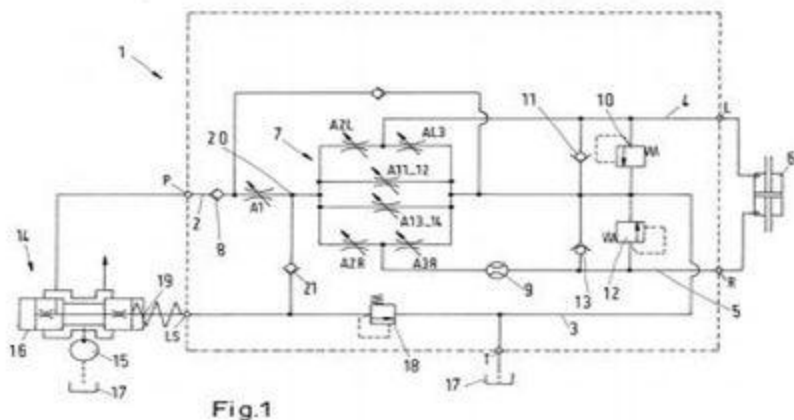
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Denmark Denmark

(72)Name of Inventor :
1)KIRAN, Paul
2)ARBJERG, Niels
3)FREDERIKSEN, Mogens

(57) Abstract :

A hydraulic steering unit (1) is described comprising a supply port arrangement having a pressure port (P) connected to a main flow path (2) and a tank port (T) connected to a tank flow path (3), a working port arrangement having a left working port (L) connected to a left working flow path (4) and a right working port (R) connected to a right working flow path (5), a bridge arrangement (7) of variable orifices having a first left orifice (A2L) connected to the main flow path (2) and to the left working flow path (4), a first right orifice (A2R) connected to the main flow path (2) and to the right working flow path (5), a second left orifice (A3L) connected to the left working flow path (4) and to the tank flow path (3), and a second right orifice (A3R) connected to the right working flow path (5) and to the tank flow path (3). Such a hydraulic steering unit should not have a self-alignment but a comfortable feeling for the driver. To this end a variable diagonal orifice A11_12 1 a variable diagonal orifice (A11_12) is connected to the main flow path (2) and to the tank flow path (3), wherein the orifices of the bridge arrangement (7) are closed in neutral position and the diagonal orifice (A11_12) is open in neutral position.



No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : DRIVE APPARATUS FOR HYBRID VEHICLE

(51) International classification :B60K0006480000,
B60K0006547000,
B60K0017160000,
F16H0001200000,
B25J0017020000

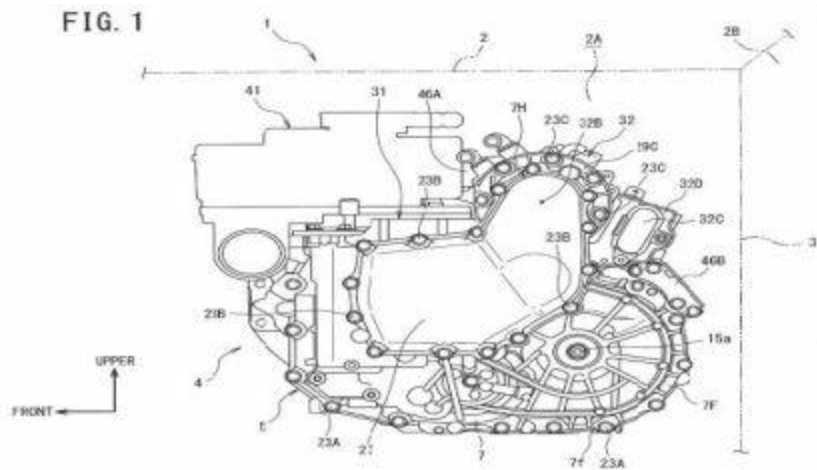
(31) Priority Document No :2018-239455
(32) Priority Date :21/12/2018
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :
1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive apparatus is equipped with a speed reducing mechanism 33 working to speed-reduce and deliver drive power produced by a motor 32 to a transmission 61. The speed reducing mechanism 33 is equipped with a motor shaft 32B, a first intermediate shaft 35, and a second intermediate shaft 36 used as a plurality of speed-reducing shafts which transmit drive power therebetween through gear sets (i.e., a first speed-reduction gear set 37, a second speed-reduction gear set 38, and a third speed-reduction gear set 39). A drive unit 4 has a damper 81 disposed on the second intermediate shaft 36 that is a final speed-reducing shaft which is one of the speed-reducing shafts and serves to transmit drive power between itself and a shaft of the transmission 61. The damper 81 works to minimize mechanical noise resulting from impact between teeth of gears on the speed-reducing shafts.



(54) Title of the invention : PROXIMITY RADAR METHOD AND SYSTEM FOR A ROTARY-WING AIRCRAFT

(51) International classification :G01S0013900000,
G01S0013420000,
G01S0013220000,
G01S0013280000,
G01S0013440000

(31) Priority Document No :1873471
(32) Priority Date :20/12/2018
(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

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(72)Name of Inventor :
1)VEYRAC Yoan
2)INCONSTANTE Jrmj
3)GARREC Patrick
4)MONTIGNY Richard
5)CORNIC Pascal

(57) Abstract :

A proximity radar method for a rotary-wing aircraft comprises a sequence of phases T(k) of steps. In a first phase T(1), the electronic computer of the radar system computes unambiguous synthetic patterns on the basis of a first activated interferometric pattern M(1) of N unitary radiating groups. In the following phases T(k) of steps, executed successively in increasing order of k, the electronic computer computes synthetic patterns on the basis of interferometric patterns M(k) of rank k, wherein the N unitary radiating groups of a series deviate simultaneously in terms of azimuth and in terms of elevation as k increases, and establishes maps of rank k of the surroundings in terms of azimuth distance/direction and/or elevation distance/direction cells in which the detected obstacle ambiguities, associated with the network lobes, are removed by virtue of the map(s) provided in the preceding phase or phases.

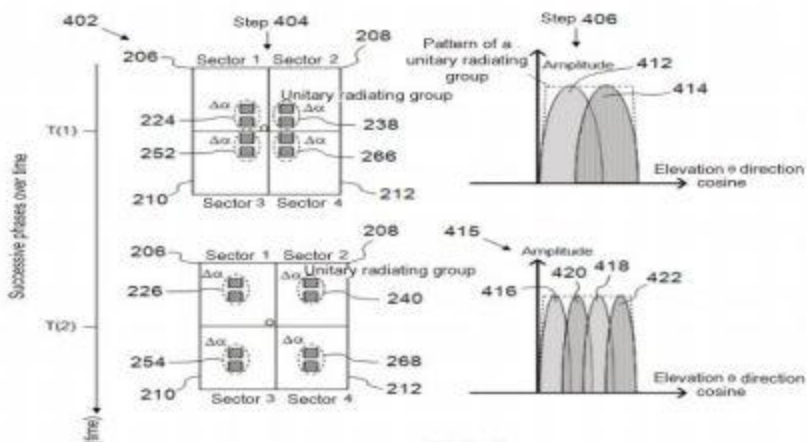


FIG. 5

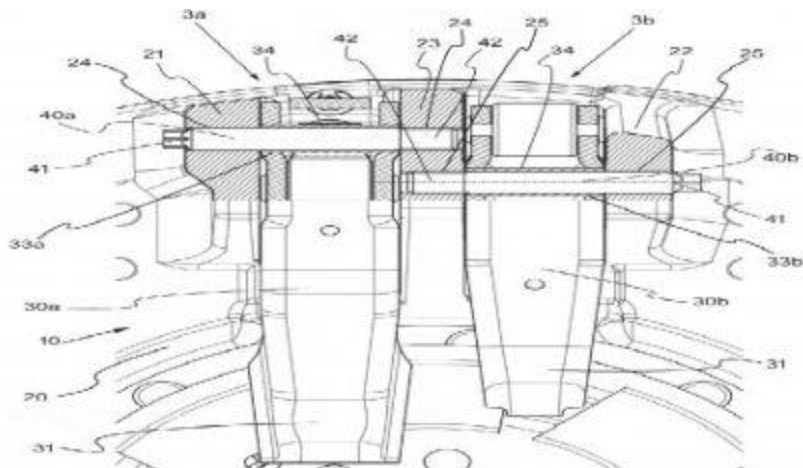
No. of Pages : 51 No. of Claims : 17

(54) Title of the invention : CLUTCH MECHANISM HAVING A FIRST LEVER AND A SECOND LEVER

(51) International classification	:H01R0024780000, F21S0043140000, E05D0007000000, H04R0009020000, F16D0021060000	(71)Name of Applicant : 1)VALEO OTOMOTIV SANAYI VE TICARET A.S. Address of Applicant :Aydivnevler Sanayi cad. Centrum is merkezi Kat:3 No:302 Maltepe 34854 ISTANBUL, Turkey, Turkey
(31) Priority Document No	:2018/20097	(72)Name of Inventor :
(32) Priority Date	:21/12/2018	1)PEHLIVAN Ahmet Koray
(33) Name of priority country	:Turkey	2)CAKMAK İolga
(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 clutch mechanism (10) comprising at least one cover (20), at least one first side wall (21) and at least one second side wall (22) provided on said cover (20), one each middle walls (23) provided between the couples of each first side wall (21) and second side wall (22); a first lever (30a) positioned between the first side wall (21) and the middle wall (23), one each first bearing openings (24) provided on the first side wall (21) and the middle wall (23) and a first pin (40a) passing through a first pin opening (33a) provided on the first lever (30a); a second lever (30b) positioned between the second side wall (22) and the middle wall (23); one each second bearing openings (25) provided on the second side wall (22) and the middle wall (23) and a second pin (40b) passing through a second pin opening (33b) provided on the second lever (30b).



No. of Pages : 17 No. of Claims : 15

(54) Title of the invention : PISTON-STYLE DRILLING MUD SCREEN SYSTEM AND METHODS THEREOF

(51) International classification :E21B0021100000,
G01N0001220000,
B23K0010000000,
E21B0049000000,
E21B0021080000

(31) Priority Document No :16/230,597

(32) Priority Date :21/12/2018

(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

(71)Name of Applicant :
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(72)Name of Inventor :
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2)COMEAX, Don A.
3)KIBBE, Charles G.
4)HEBERT, Jeremy P.

(57) Abstract :

A drilling mud screen system, comprising: a first assembly having a first drilling mud inlet and outlet, a first body having a second drilling mud inlet and outlet, wherein the first drilling mud outlet of the first assembly is fluidly connected to the second drilling mud inlet of the first body, a second body having a third drilling mud inlet and outlet, wherein the second drilling mud outlet of the first body is fluidly connected to the third drilling mud inlet of the second body, a drilling mud screen, disposed within the first body and the second body between the first drilling mud inlet and the second drilling mud outlet, a lock system, comprising: a third body having a first inlet and outlet, wherein the first body is disposed through the third body such that the first body is held by a lip at the first end of the third body, a fourth body having a second inlet and outlet, wherein the first outlet of the third body is connected to the second inlet of the fourth body, wherein the second body is disposed through the fourth body such that the second body is held by a lip at or near the second end of the fourth body, a first lock, a second lock, a second assembly having a fourth drilling mud inlet and outlet, wherein the third drilling mud outlet of the second body is fluidly connected to the fourth drilling mud inlet of the second assembly is disclosed. Methods of installing and using the drilling mud screen system are also disclosed.



No. of Pages : 208 No. of Claims : 78

(54) Title of the invention : DRIVE APPARATUS FOR HYBRID VEHICLE

(51) International classification :H02K0007116000,
B60K0006520000,
F16H0057025000,
F16H0003091000,
F02M0026480000

(31) Priority Document No :2018-239449

(32) Priority Date :21/12/2018

(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

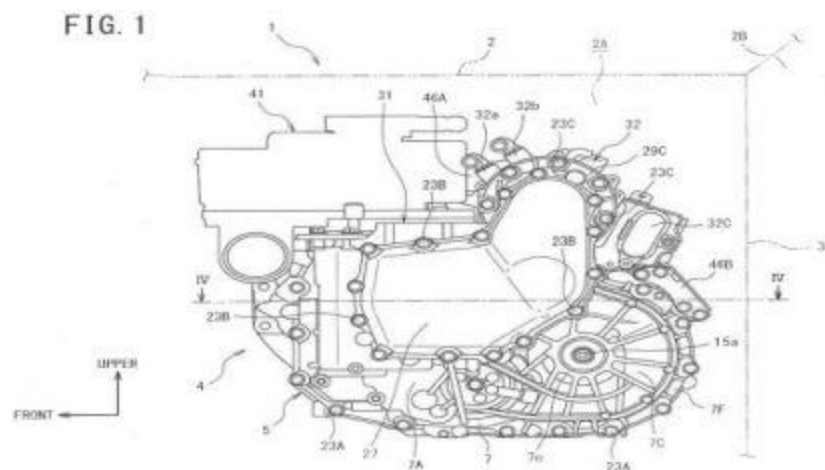
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive unit 4 is equipped with a first speed reduction gear set 37, a second speed reduction gear set 38, a third speed reduction gear set 39, and a speed reducing mechanism 33 which delivers power from a motor shaft 32B of a motor 32 to a forward output shaft 12. The speed reducing mechanism 33 is equipped with a first intermediate shaft 35 and a second intermediate shaft 36 between the motor shaft 32B and the forward output shaft 12. The speed reducing mechanism 33 has the motor shaft 32B, the first intermediate shaft 35, the second intermediate shaft 36, and the forward output shaft 12 arranged along a first imaginary line LI which is defined to pass through an axis 01 of the motor shaft 32B, an axis 02 of the first intermediate shaft 35, an axis 03 of the second intermediate shaft 36 and an axis 04 of the forward output shaft 12 and extends in a zigzag form. This layout enables the motor 32 and the speed reducing mechanism 33 to be placed at a location effective to minimize mechanical vibration of the drive unit 4 when the motor 32 mounted on an upper portion of a transmission case 5 is attached to a transmission through the speed reducing mechanism 33.



No. of Pages : 41 No. of Claims : 4

(54) Title of the invention : CONNECTION HEAD FOR THE TUBE PROFILE OF A MODULAR SCAFFOLD COMPONENT IN THE FORM OF A VERTICAL DIAGONAL AND A VERTICAL DIAGONAL

(51) International classification :E04G0007300000,
E04G0007320000,
E04G0007020000,
B62K0021060000,
F16L0013020000

(31) Priority Document No :10 2018 133 506.7

(32) Priority Date :21/12/2018

(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

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(72)Name of Inventor :
1)STECK, Tobias
2)MIKIC, Erzad
3)URBAN, Wolfgang

(57) Abstract :

The invention relates to a connection head (10; 10') for a tube profile (114) of a scaffolding component designed as a vertical diagonal, comprising: - a connection section (14) for releasably connecting the connection head (10; 10') to a connection rosette (110) of a scaffold column (102; 104); and - an eye flange (28) which extends away from the connection portion (14) and which serves to fasten the connection head (10, 10') to the tube profile (114). The eye flange (28) has a foot segment (30) arranged on the connection section (14) and an eye segment (32) carried by the foot segment (30) and having an eye (34) which projects laterally on both sides transversely to the longitudinal axis (36) of the eye flange (28) beyond the foot segment (30) and preferably tapers towards its two free ends respectively. The invention also concerns a vertical diagonal (114) with two of the aforementioned connection heads (10, 10').

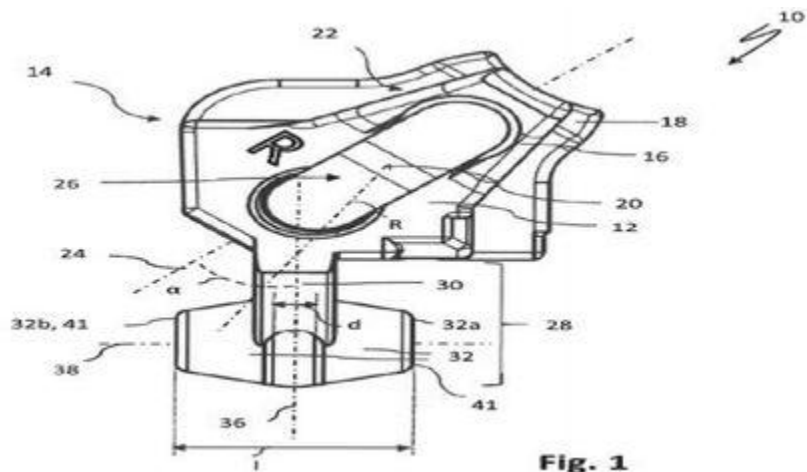


Fig. 1

No. of Pages : 25 No. of Claims : 17

(54) Title of the invention : FEMALE COUPLING ELEMENT AND FLUID COUPLING COMPRISING A MALE COUPLING ELEMENT AND SAID FEMALE COUPLING ELEMENT

(51) International classification :F16L0037230000,
F16L0037340000,
F16L0037084000,
F16L0037420000,
E05B0065100000

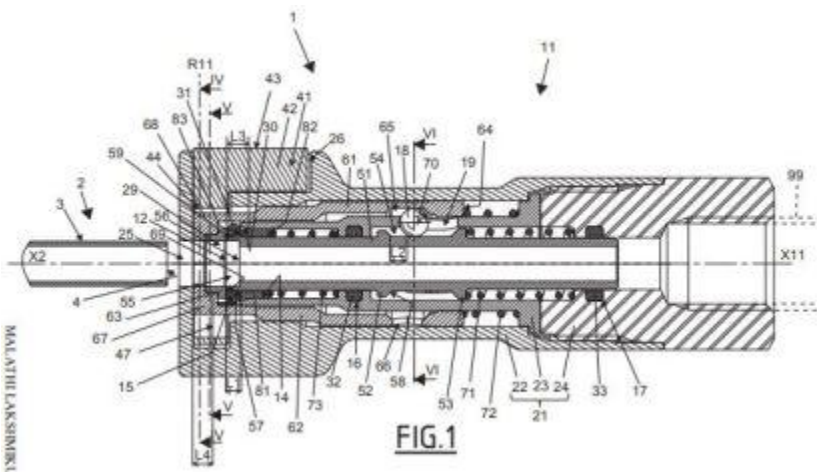
(31) Priority Document No :1873884
(32) Priority Date :21/12/2018
(33) Name of priority country :France
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
1)TIBERGHIE, Alain-Christophe
2)DURIEUX, Christophe

(57) Abstract :

A fluid female coupling element (11), comprising a female body (21), able to receive a male coupling element (2), a bolt (41), mounted sliding transversely between a holding position and a releasing position of the male coupling element and a plunger (51), movable between forward and rear positions. To automatically oppose the removal of the male element fitted within it, even if the male element has a reduced length, the female coupling element (11) comprises a memory ring (61), movable between an advanced position for holding the bolt (41) in the releasing position and a withdrawn position allowing the movement of the bolt (41) toward its holding position, the plunger (51) driving the memory ring (61) toward the withdrawn position when the plunger moves toward the rear position and the memory ring being in the advanced position in the uncoupled position.



No. of Pages : 48 No. of Claims : 15

(54) Title of the invention : DRIVE APPARATUS FOR HYBRID VEHICLE

(51) International classification :F16H0057040000,
B60K0006480000,
B60K0017040000,
B60K0001000000,
F16H0057020000

(31) Priority Document No :2018-239448

(32) Priority Date :21/12/2018

(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

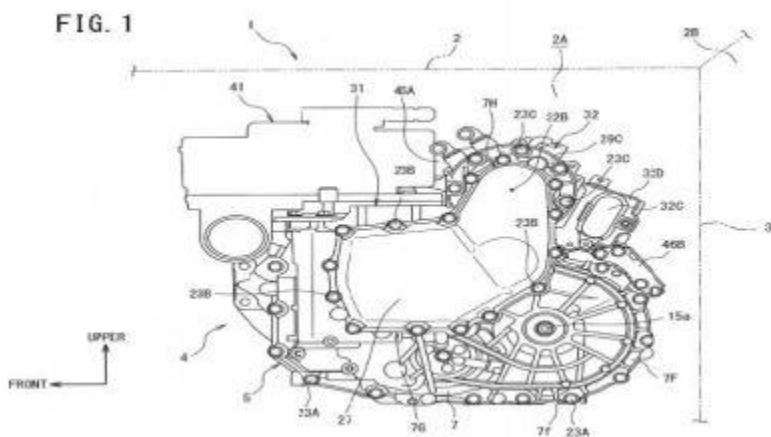
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive apparatus for hybrid vehicles has an electric motor 32 disposed above a transmission 61. A transmission case 5 includes a right case 6, a left case 7, and a cover member 27 which are arranged in this order from an engine 8 and define a transmission storage chamber 62 in which the transmission 61 is disposed. The left case 7 includes a left case body 7g forming a portion of the transmission storage chamber 62 and a bulging portion 7H which bulges upward from the left case body 7G and to which an end of the motor 32 is secured. A mount attachment portion 31 to which a mount device 70 is secured is formed in front of the bulging portion 7H on an upper surface of the left case body 7G. This structure minimizes vibration of the transmission 61.



No. of Pages : 32 No. of Claims : 4

(54) Title of the invention : PROCESSES FOR PREPARING 4-METHYL-5-NONANONE AND 4-METHYL-5-NONANOL

(51) International classification	:A61K0045060000, C07C0067080000, C07C0051353000, C07C0029132000, C08J0003240000	(71)Name of Applicant : 1)SHIN-ETSU CHEMICAL CO., LTD. Address of Applicant :6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo, 100-0004, Japan Japan
(31) Priority Document No	:2018-239591	(72)Name of Inventor :
(32) Priority Date	:21/12/2018	1)MIYAKE, Yuki
(33) Name of priority country	:Japan	2)KINSHO, Takeshi
(86) International Application No	:NA	3)NAGAE, Yusuke
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 process for preparing 4-methyl-5-nonanone of the following formula (3): the process comprising at least a step of subjecting 2-methylpentanoic anhydride of the following formula (1) and an n-butyl nucleophilic reagent of the following general formula (2) in which M represents Li, MgZ1, or ZnZ1, wherein Z1 represents a halogen atom or an n-butyl group, to a nucleophilic substitution reaction to produce 4-methyl-5-nonanone (3), as well as a process for preparing 4-methyl-5-nonanol of the following formula (5), the process comprising at least steps of preparing 4-methyl-5-nonanone; and subjecting the obtained 4-methyl-5-nonanone and a reducing agent to a reduction reaction to produce 4-methyl-5-nonanol (5).

No. of Pages : 34 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914052421 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROCESSES FOR PREPARING 4-METHYL-5-NONANONE AND 4-METHYL-5-NONANOL

(51) International classification	:C07C0067080000, C07C0029132000, C07C0051353000, C08J0007120000, C08G0063800000	(71)Name of Applicant : 1)SHIN-ETSU CHEMICAL CO., LTD. Address of Applicant :6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo, 100-0004, Japan Japan
(31) Priority Document No	:2018-239546	(72)Name of Inventor :
(32) Priority Date	:21/12/2018	1)MIYAKE, Yuki
(33) Name of priority country	:Japan	2)KINSHO, Takeshi
(86) International Application No	:NA	3)KOMATSU, Ryo
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 process for preparing 4-methyl-5-nonanone of the following formula (3), the process comprising at least a step of subjecting pentanoic anhydride of the following formula (1) and a 2-pentyl nucleophilic reagent of the following general formula (2), in which M represents Li, MgZ1, or ZnZ1, wherein Z1 represents a halogen atom or a 2-pentyl group, to a nucleophilic substitution reaction to produce 4-methyl-5-nonanone (3), as well as a process for preparing 4methyl-5-nonanol of the following formula (7), the process comprising at least steps of preparing 4-methyl-5-nonanone and subjecting the obtained 4methyl-5-nonanone and a reducing agent to a reduction reaction to produce 4methyl-5-nonanol (7).

No. of Pages : 44 No. of Claims : 8

(54) Title of the invention : METHOD AND SYSTEM FOR NEUTRALIZING THE EFFECT OF VIBRATIONS IN A ROTARY-WING AIRCRAFT FOR AIRBORNE DOPPLER RADAR

(51) International classification :H01Q0003260000,
G01S0007030000,
G01S0013950000,
G01S0013600000,
G01S0007400000

(31) Priority Document No :1873374

(32) Priority Date :20/12/2018

(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

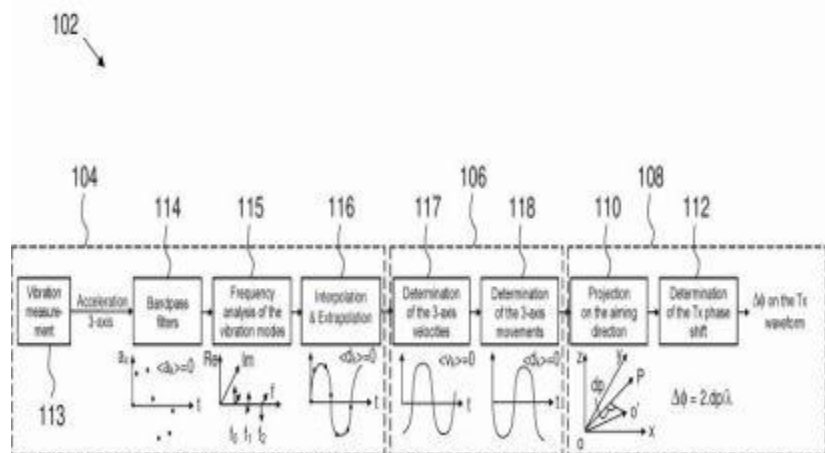
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
1)GARREC Patrick
2)COTTRON Rodolphe
3)VEYRAC Yoan

(57) Abstract :

A method for active neutralization of the effect of the vibrations of a rotary-wing aircraft for a monostatic Doppler radar comprises: - a first step (104) of measuring and temporally extrapolating the vibration modes at the transmitting-receiving radar antenna, using a 3-axis vibration sensor, fixed to the antenna and near the phase centre of the antenna; then - a second step (106) of estimating the expected movements of the transmitting-receiving antenna or of the first transmitting antenna and the second receiving antenna; then - a third step (108) of compensating the expected movements of the transmission radar antenna in the transmission chain or in the reception chain of the radar transmitter, wherein the projection of the movement vector of the phase centre O on an aiming direction is calculated to determine the value of the compensation phase shift to be applied.



No. of Pages : 44 No. of Claims : 18

(54) Title of the invention : MATRIX-ARRAY DETECTOR WITH CONTROLLED-IMPEDANCE ROW CONDUCTORS

(51) International classification :H04N0005374000,
G09G0003360000,
G01T0001240000,
H04R0003000000,
G09G0003200000

(31) Priority Document No :1873891

(32) Priority Date :21/12/2018

(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

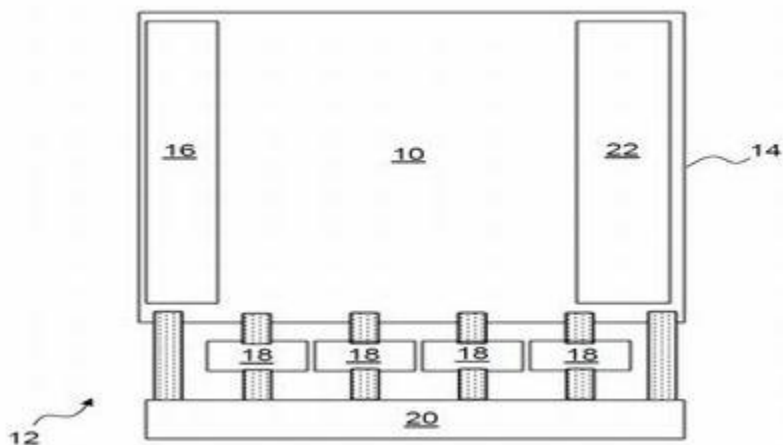
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :Z.I. Centr'Alp, 38430 MOIRANS,
France France

(72)Name of Inventor :
1)MARECAUX Simon
2)BLANCHON David
3)SIAUD Martin

(57) Abstract :

The present invention relates to a matrix-array detector comprising: € an array (10) of pixels that are sensitive to a physical effect and arranged in a matrix along rows and down columns, each pixel generating a signal according to the physical effect; € row conductors, each allowing the pixels of one row to be driven; € driver modules (16) delivering selection signals to the row conductors, the driver modules (16) being configured to deliver signals according to either of two levels, one being a high level allowing one of the rows of pixels to be selected and the other being a low level not allowing it to be selected. According to the invention, the detector further comprises impedance modules (22) that are connected to each of the row conductors and configured to decrease the impedance of each row conductor and to keep the impedance of each row conductor low in a phase of reading the array (10) of pixels as long as the corresponding selection signal is at the low level, the impedance modules (22) being separate from the driver modules (16).



No. of Pages : 21 No. of Claims : 6

(54) Title of the invention : DEVICE FOR ANALYZING A SIGNAL AND ASSOCIATED METHOD

(51) International classification :H03M0001120000,
A61B0005000000,
A61B0005080000,
H03M0001000000,
H04B0001000000

(31) Priority Document No :18 73339

(32) Priority Date :19/12/2018

(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

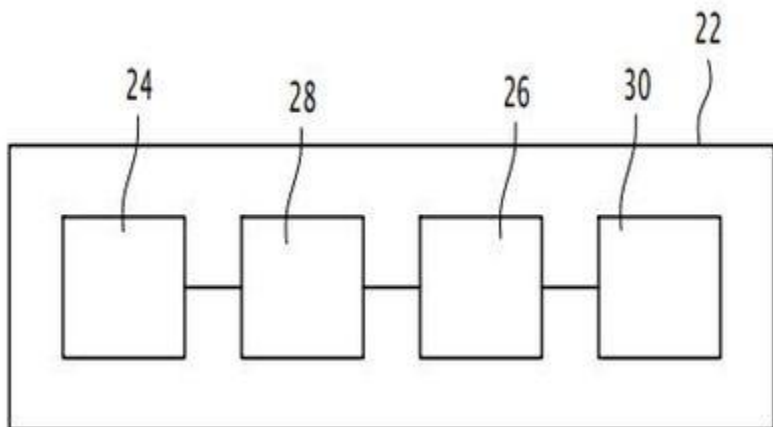
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
1)FORMONT Stphane
2)HODE Jean-Michel

(57) Abstract :

The present invention relates to a signal analysis device (16), the analysis device (16) having N signal processing channels (22), each processing channel (22) comprising: a sampling device (24) operating at a sampling frequency, an analog-to-digital converter (26) operating at a conversion frequency, the conversion frequency being strictly greater than the sampling frequency, a filter (28) interposed between the sampling device (24) and the analog-to-digital converter (26), the filter (28) being a filter having a cutoff frequency, and a calculator adapted to analyze the output signal of the analog-to-digital converter (26).



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

(54) Title of the invention : METHOD FOR ASSEMBLING A WIND TURBINE AND WIND TURBINE ASSEMBLED ACCORDING TO SAID METHOD

(51) International classification :F03D0013200000,
E04H0012080000,
F03D0013100000,
E04H0012120000,
E04H0012340000

(31) Priority Document No :18382969.6

(32) Priority Date :21/12/2018

(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

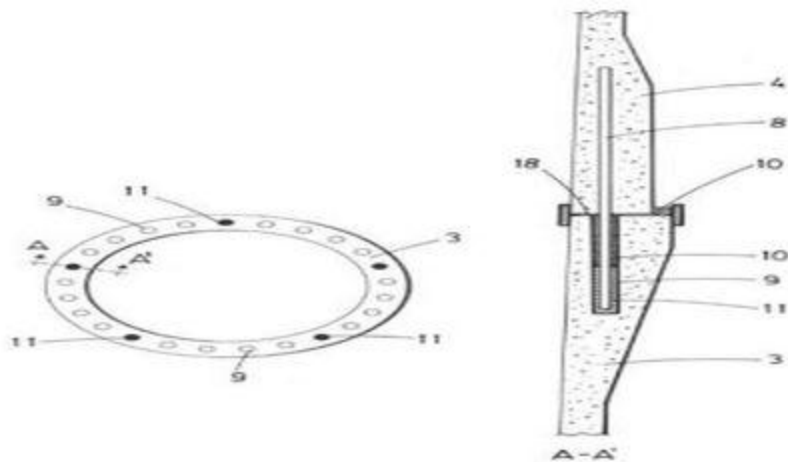
(62) Divisional to Application Number :NA
Filing Date :NA

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3)IVAN, Garcia Maestre
4)ASIER, Gomez Andueza
5)VANESSA, Cerrillo Gomez
6)ANDER, Gaston Lujambio
7)TERESA, Arlab;n Gabeiras
8)JOS% MIGUEL, Garca Says
9)MIGUEL, Nu±ez Polo

(57) Abstract :

The invention relates to assembling a wind turbine tower by stacking a plurality of annular sections (3, 4, 5, 6) made of concrete above each other, wherein main connections are performed between two adjacent annular sections (3, 4, 5, 6), for withstanding loads induced by a rotor; and wherein auxiliary connections are performed between two adjacent annular sections (3, 4, 5, 6), for withstanding loads induced by an earthquake and loads induced by the wind on the wind turbine in absence of the rotor, but not necessarily loads induced by the rotor. The method is characterized in that the auxiliary connections between two adjacent annular sections (3, 4) are performed prior to stacking the following annular section (5).



No. of Pages : 30 No. of Claims : 20

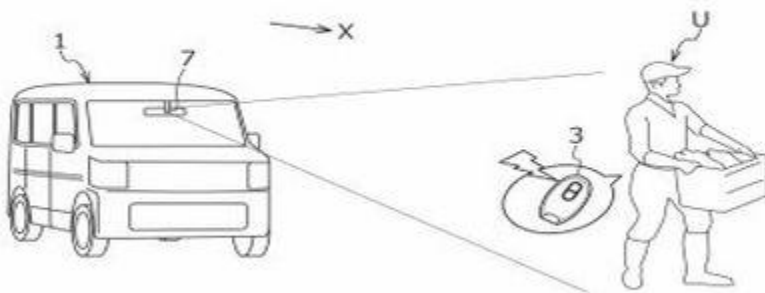
(54) Title of the invention : €VEHICLE REMOTE OPERATING APPARATUS€ •

(51) International classification	:B60R0025040000, G07C0009000000, B60R0025240000, B60W0030060000, B60W0030180000	(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	:2018-239563	(72)Name of Inventor : 1)Akira AKITA
(32) Priority Date	:21/12/2018	
(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 vehicle remote operating apparatus (2) of the present invention includes: a portable device (3) which remotely operates a vehicle (1); a position specifying unit (4) which specifies the position of the portable device (3) relative to the vehicle (1); and a controller (5) which controls the vehicle (1) in accordance with an operation on the portable device (3). The controller (5) specifies a travel area (A) situated in a travel direction to divide the travel area (A) into multiple regions. The multiple regions include one or more travel allowable regions (B). The controller (5) causes the vehicle (1) to travel when the portable device (3) is situated in the one or more travel allowable regions (B).

FIG.1



No. of Pages : 43 No. of Claims : 6

(54) Title of the invention : DRIVE APPARATUS FOR VEHICLE

(51) International classification :F16H0063340000,
F16H0063480000,
H02K0007140000,
H02K0007116000,
B60T0001060000

(31) Priority Document No :2018-239456
(32) Priority Date :21/12/2018
(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

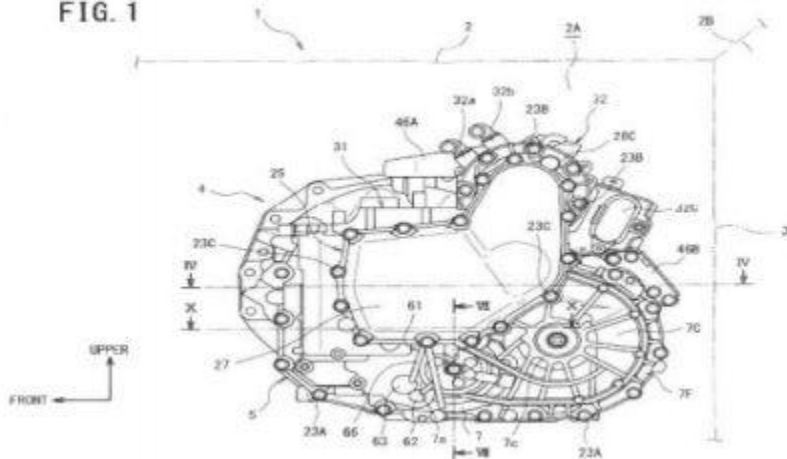
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(72)Name of Inventor :
1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive unit 4 serving as a drive apparatus is equipped with a left case 7 in which a reverse output shaft 13 and a parking lock mechanism 51 are disposed. A left wall 7B of the left case 7 is equipped with a cylindrical bearing retainer 7b which retains the reverse output shaft to be rotatable using a bearing 40G. The left wall 7B of the left case 7 is equipped with a cylindrical upper fastening portion 61 and a cylindrical lower fastening portion 62. The upper fastening portion 61 is located above the bearing retainer 7b and has an upper portion 55a of a retainer 55 fastened thereto. The lower fastening portion 62 is located below the bearing retainer 7b and has a lower portion 55b of the retainer 55 fastened thereto. The retainer 55 includes a curved portion 55A countered to conform with an outline of the bearing retainer 7b. This structure of the drive unit 4 enables the parking lock mechanism 51 placed at a location suitable for minimizing mechanical vibration or deformation of the parking lock mechanism 51, thereby improving the reliability in operation of the parking lock mechanism 51.

FIG. 1



No. of Pages : 43 No. of Claims : 7

(54) Title of the invention : DRIVE APPARATUS FOR HYBRID VEHICLE

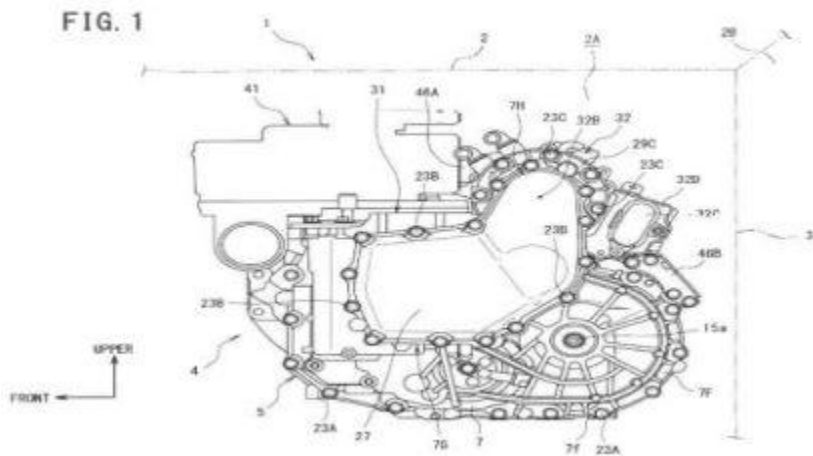
(51) International classification :F16H0057040000,
B60K0005120000,
B60W0010020000,
F02B0061020000,
F16H0063300000

(31) Priority Document No :2018-239457
(32) Priority Date :21/12/2018
(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

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1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive apparatus is equipped with a motor 32 located above a transmission 61. A transmission case 5 includes a right case 6, a left case 7, and a cover member 27 which are arranged in this order from an engine 8. A transmission storage chamber 62 in which the transmission 61 is disposed is defined by the right case 6, the left case 7, and the cover member 27. The left case 7 is equipped with a left case body 7G and a bulging portion 7H. A mount attachment portion 31 is formed in front of the bulging portion 7H on an upper surface of the left case body 7G and has a plurality of mount attachment bosses 31A to 31E to which the mount device 70 is secured. At least one of the mount attachment bosses 31A to 31E connects with a front wall portion 29D that is a front wall of the bulging portion 7H which faces the mount attachment bosses 31A to 31E. This structure is capable of minimizing mechanical vibration of a motor mount 29C of the transmission case which arises from load torque produced by the motor.



No. of Pages : 42 No. of Claims : 10

(54) Title of the invention : DRIVE APPARATUS FOR HYBRID VEHICLE

(51) International classification :H02K0007116000,
F16H0057040000,
F16H0037040000,
F16H0001200000,
B60K0017040000

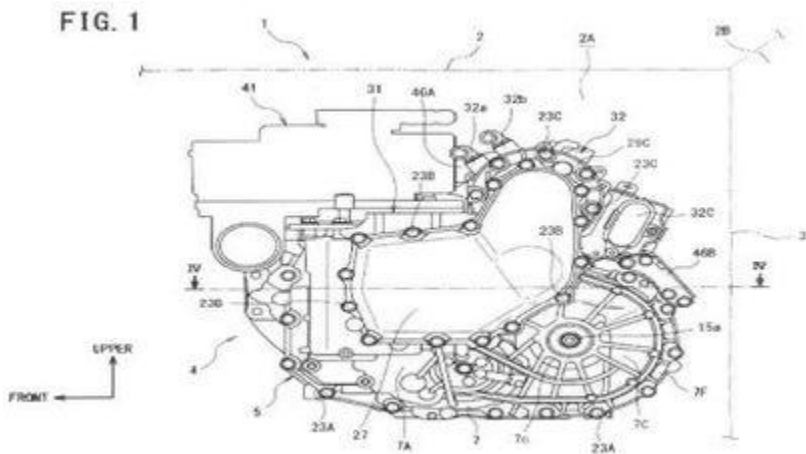
(31) Priority Document No :2018-239454
(32) Priority Date :21/12/2018
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
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2)Keiji KITAOKA

(57) Abstract :

A drive unit 4 working as a drive apparatus is equipped with a transmission case 5 which includes a speed reducer case 25 in which a speed reducing mechanism 33 is disposed. The speed reducer case 25 has a side wall 29 disposed between a motor 32 and the speed reducing mechanism 33 in an axial direction of a forward output shaft 12. The speed reducing mechanism 33 has a third speed reduction gear set 39 including a third drive gear 36B mounted on a second intermediate shaft 36 and a third drive gear 36B which is mounted on the forward output shaft 12 and meshes with the third drive gear 36B. The third drive gear 36B is located radially outside a bearing 51A which retains a motor shaft 32B on the side wall 29. This structure of the speed reducer case 25 enables the size of the drive unit 4 to be reduced.



No. of Pages : 39 No. of Claims : 3

(54) Title of the invention : €DRIVE APPARATUS FOR HYBRID VEHICLE€ •

(51) International classification :F16H0057040000,
B60K0001000000,
B60K0017040000,
F16H0057020000,
H02K0007116000

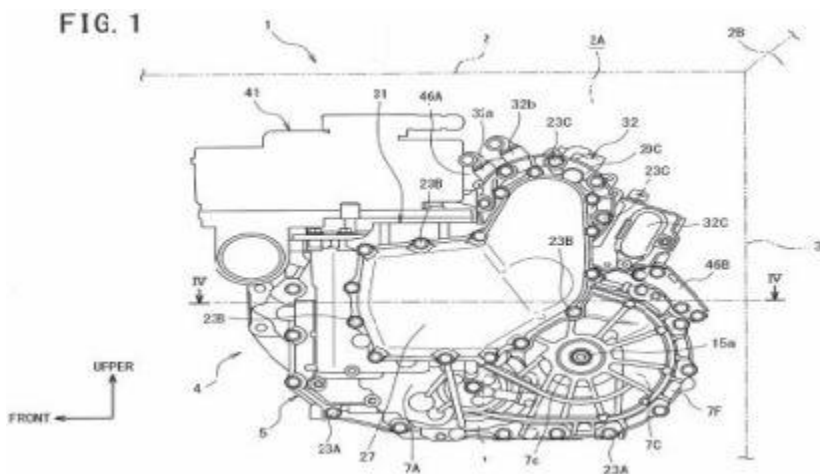
(31) Priority Document No :2018-239450
(32) Priority Date :21/12/2018
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
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2)Keiji KITAOKA

(57) Abstract :

A drive unit 4 includes a left case 7 of a transmission case 5. The left case 7 is equipped with a speed reducer case 25 in which a speed reducing mechanism 33 is disposed. The speed reducer case 25 includes a casing member 26 which is formed integrally with the left case 7 and surrounds the speed reducing mechanism 33 and a cover member 27 joined to the casing member 26. The casing member 26 includes a side wall 29 which extends upward from an upper wall 7B of the left case 7 and is disposed between a motor 32 and the speed reducing mechanism 33. The side wall 29 is equipped with a disc-shaped motor mount 29C which is identical in outer diameter with the motor 32 and to which the motor 32 is joined. The motor mount 29C has a plurality of bosses 29m and bolts 23C for use in fastening the motor 32 to the motor mount 29C. This structure serves to minimize mechanical vibration of the motor and have a simplified structure of the speed reducer case 25.



No. of Pages : 39 No. of Claims : 3

(54) Title of the invention : €DRIVE APPARATUS FOR HYBRID VEHICLE€ •

(51) International classification :F16H0057040000,
F01M0011000000,
B60R0016023000,
F01M0001020000,
F28F0003020000

(31) Priority Document No :2018-239453

(32) Priority Date :21/12/2018

(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

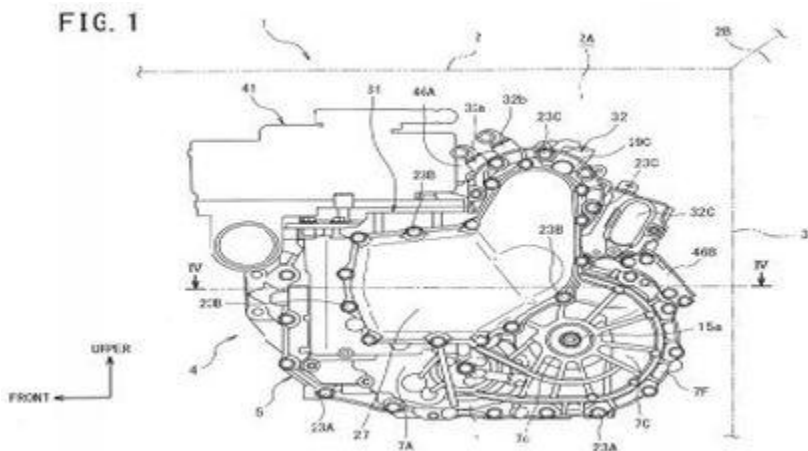
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive unit 4 is equipped with a casing member 26 which surrounds a speed reducing mechanism 33. The casing member 26 includes a peripheral wall 28, a vertical wall 29A, and a dividing wall 29B. The peripheral wall 28 protrudes from a left wall 7A of a left case 7 away from a right case 6 to have an upper end portion 28u located above an upper wall 7B of the left case 7. The upper end portion 28u has a protruding end 28a to which a cover member 27 is attached. The vertical wall 29A is provided on a base end 28b of the peripheral wall 28 farther away from the cover member 27 and extends upward from the upper wall 7B of the left case 7. The dividing wall 29B extends from a lower portion of the vertical wall 29A to below the upper wall 7B of the left case 7 in alignment with the base end 28b of the peripheral wall 28 and connects between the upper wall 7B and a lower portion 28c of the peripheral wall 28. These arrangements enable the drive unit 4 serving as a drive apparatus to have a simplified structure of a speed reducer case 25 and minimize mechanical vibration of the speed reducer case 25.



No. of Pages : 42 No. of Claims : 4

(54) Title of the invention : METHOD AND DEVICE FOR DATA RECORDING

(51) International classification :G01R0021133000,
G01N0033240000,
H02H0003280000,
G01R0019250000,
H04L0007040000

(31) Priority Document No :18 73839

(32) Priority Date :21/12/2018

(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

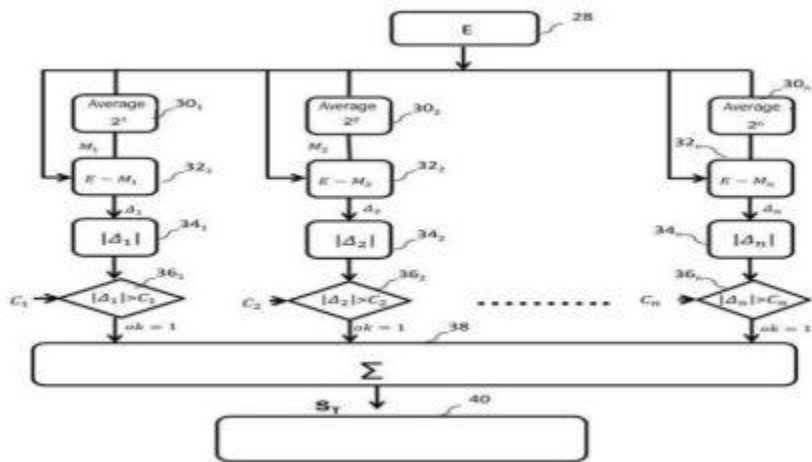
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention relates to a method and a device for recording digital data representative of an operating variable of an observed system, the digital data representative of said variable being obtained in the form of samples, the method comprising a data recording over time. The method [sic] receiving (28) successive samples representative of said observed variable, and for a current sample, for at least two observation windows of different sizes, each observation window including a number, equal to the size of said window, of successive samples received before the moment in time corresponding to the current sample, - calculating (30i, 302, 30n) an average value per observation window, - calculating (32i, 322, 32n) a difference between the current sample and each of said average values, - comparing (36i, 362, 36n) each difference, in absolute value, to a predetermined threshold value associated with said observation window, and in case of excess, triggering (38, 40) a recording of the current sample in a non-volatile memory.



No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : €DRIVE APPARATUS FOR HYBRID VEHICLE€ •

(51) International classification :F16H0057040000,
B60K0006480000,
F16H0057020000,
B60K0005120000,
B60K0017040000

(31) Priority Document No :2018-239447

(32) Priority Date :21/12/2018

(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

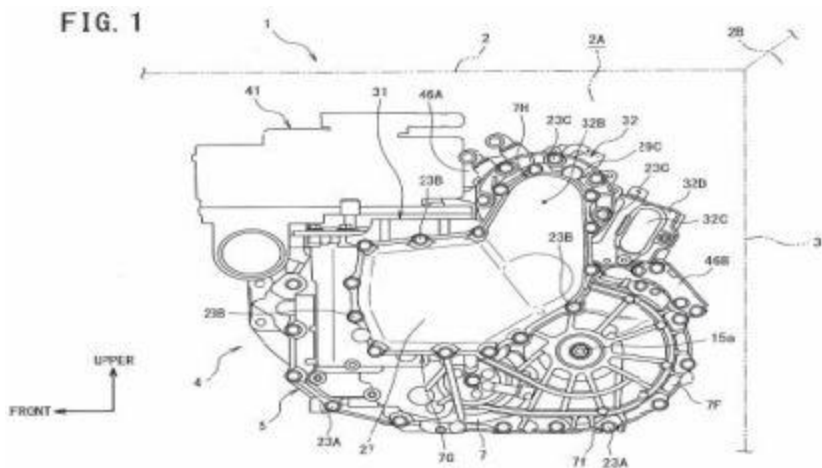
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)Masahide MIYAZAKI
2)Keiji KITAOKA

(57) Abstract :

A drive apparatus is provided which is equipped with a motor. The motor is arranged above a transmission. A transmission case includes a right case, a left case, and a cover member which are arranged in this order from an engine. A transmission storage chamber in which the transmission is disposed is defined by the right case, the left case, and the cover member. The left case includes a left case body which forming a portion of the transmission storage chamber and a bulging portion which bulges upward from the left case body and to which an end of the motor is attached. A speed reducer storage chamber in which a speed reducing mechanism working to reduce the speed with which drive force is transmitted from the motor is defined by the bulging portion and the cover member. This avoids an increase in size of a transmission arising from installation of a drive motor.



No. of Pages : 33 No. of Claims : 5

(54) Title of the invention : DIGITAL BIPOLAR INTERFEROMETER WITH UNDERSAMPLING

(51) International classification :H04B0001000000,
H01Q0021200000,
C07K0016460000,
H01Q0021220000,
H03D0003000000

(31) Priority Document No :18 73917

(32) Priority Date :21/12/2018

(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

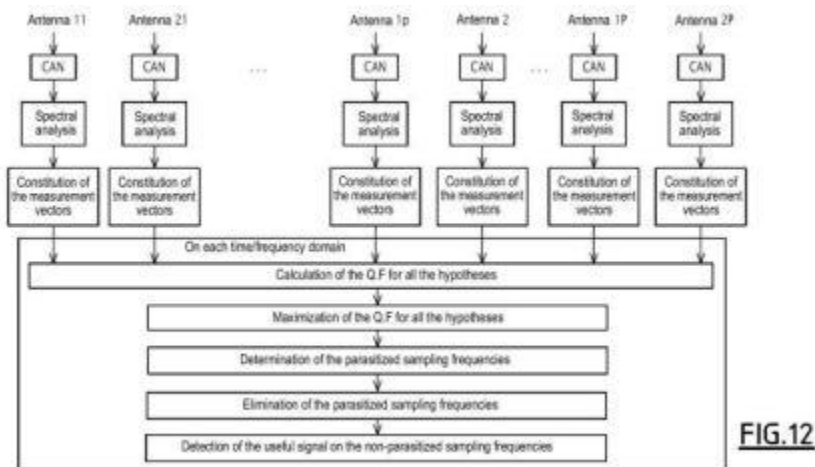
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
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(57) Abstract :

The present invention relates to an interference identification method for identifying interference situations due to spectral folding in a wide band digital receiver, the method being operationally implemented by means of an interferometric array, composed of two single polarization sub-arrays with P wide band antennas, where P is an integer that is greater than or equal to 1, each antenna being followed by an analogue reception chain and one or more digital reception modules, the number of digital reception modules being R on each sub-array, distributed in an identical manner over the two sub-arrays, with the method using various hypotheses to determine such situations.



No. of Pages : 76 No. of Claims : 9

(54) Title of the invention : STRADDLE-TYPE VEHICLE

(51) International classification :H04L0029080000,
C07D0417140000,
C07D0417060000,
C07D0263320000,
G03G0015000000

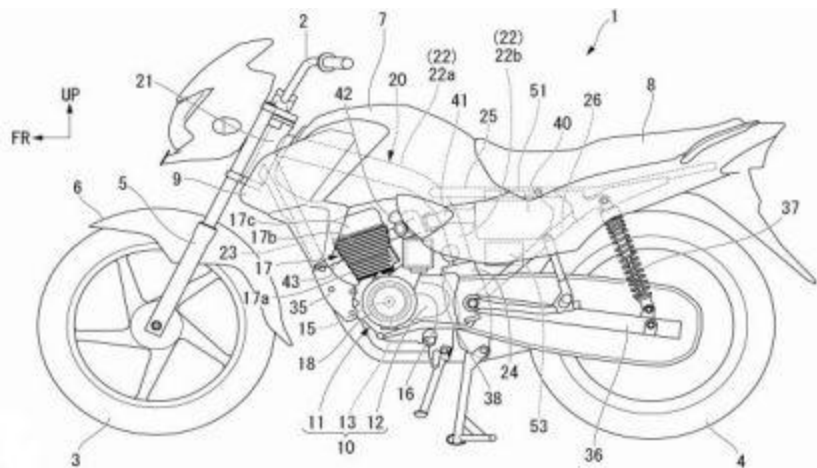
(31) Priority Document No :2018-241758
(32) Priority Date :25/12/2018
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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4)HAMAUZU, Akira

(57) Abstract :

A motorcycle (1) includes: an engine (11) which is a power source of a vehicle; a generator (13) which generates electricity using the rotation of the engine (11); an FI-ECU (51) which controls the engine (11); and an ACG-ECU (52) which is provided separately from the FI-ECU (51) and controls the generator (13). The engine (11) includes a cylinder (17) which stands upward and the ACG-ECU (52) is disposed behind the cylinder (17).



No. of Pages : 30 No. of Claims : 11

(54) Title of the invention : DRINKING IMPLEMENT WITH HIGH STRENGTH

(51) International classification :B01D0061020000,
A47G0019220000,
A47G0021180000,
C02F0001440000,
B29C0065000000

(31) Priority Document No :PCT/CN2018/123157

(32) Priority Date :24/12/2018

(33) Name of priority country :PCT

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

(87) International Publication No : NA

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

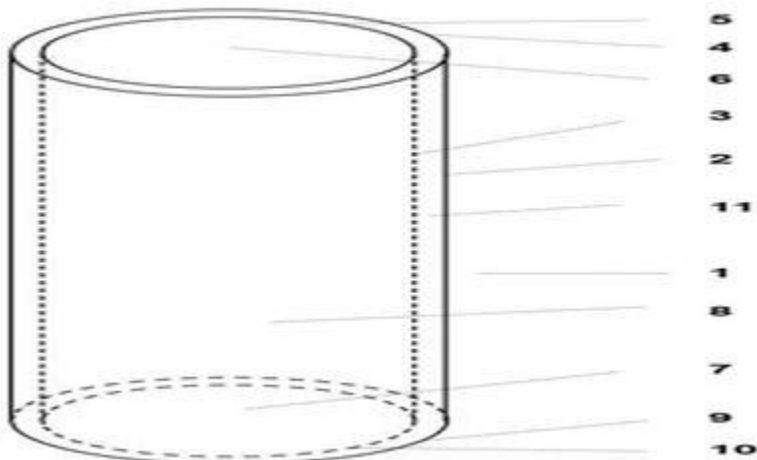
(62) Divisional to Application Number :NA
Filing Date :NA

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2)XUE, Jim
3)WINTERSTELLER, Fritz
4)STEDEN, Folker
5)UCHIDA, Takahisa
6)DEBRECZENY, Csaba

(57) Abstract :

The present invention relates to drinking implements, a method for producing the drinking im-plements of the invention as well as to uses of the drinking implement.



No. of Pages : 43 No. of Claims : 14

(54) Title of the invention : CIRCUIT ARRANGEMENT AND RECTIFIER CIRCUIT FOR AN ELECTRICAL MACHINE

(51) International classification :G01N0033533000,
H05B0031000000,
B01J0020286000,
C02F0003280000,
B63C0007260000

(31) Priority Document No :102018222829.9

(32) Priority Date :21/12/2018

(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

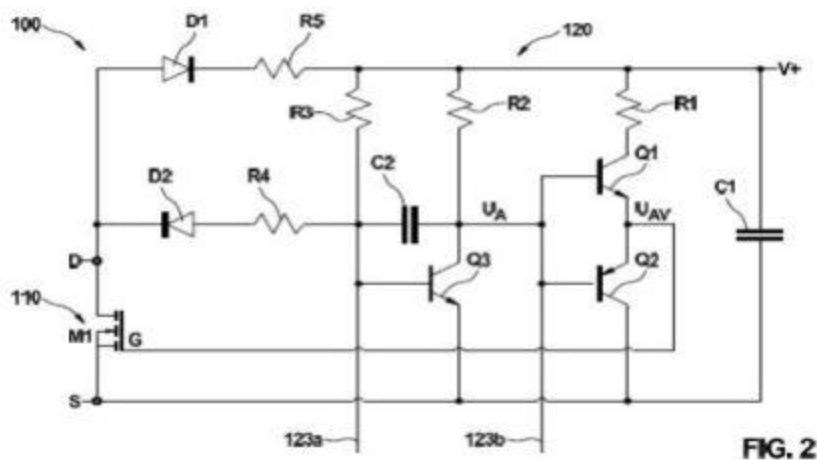
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
1)FISCHER, Wolfgang
2)MUELLER, Jonathan
3)KIRCHNER, Tobias

(57) Abstract :

The present subject matter relates to a circuit arrangement (100) comprising a switching transistor (110, M1) with a first load connection (S), a second load connection (D) and a control connection (G) and a drive circuit (120) for driving the switching transistor (110, M1), wherein the drive circuit further comprises a control transistor (Q3), in particular a bipolar transistor, with a first load connection, a second load connection and a control connection, a diode unit (D2, Q4), a first resistance element (R4), a second resistance element (R2), a third resistance element (R3) and a potential unit (C1, V+), wherein a signal path exists between the second load connection (D) of the switching transistor (110, M1) and the control connection of the control transistor (Q3), which comprises signal path of the diode unit (D2, Q4) and the first resistance element (R4), between the first load connection of the control transistor (Q3) and the control connection (G) of the switching transistor (110, M1), between the second load connection of the control transistor (Q3) and the first load connection (S) of the switching transistor (110, M1), between the control connection of the control transistor (Q3) and the potential unit (C1, V+), which comprises the signal path of the third resistance element (R3), between the first load connection of the control transistor (Q3) and the potential unit (C1, V+), which comprises signal path of the second resistance element (R2).



No. of Pages : 36 No. of Claims : 15

(54) Title of the invention : ELECTRONIC DEVICE INCLUDING PLURALITY OF ANTENNA ARRAYS

(51) International classification :C07D0403120000,
H04W0036220000,
C07D0403140000,
C07D0417060000,
C07D0413040000

(31) Priority Document No :10-2018-0168447

(32) Priority Date :24/12/2018

(33) Name of priority country :Republic of Korea

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

(87) International Publication No : NA

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

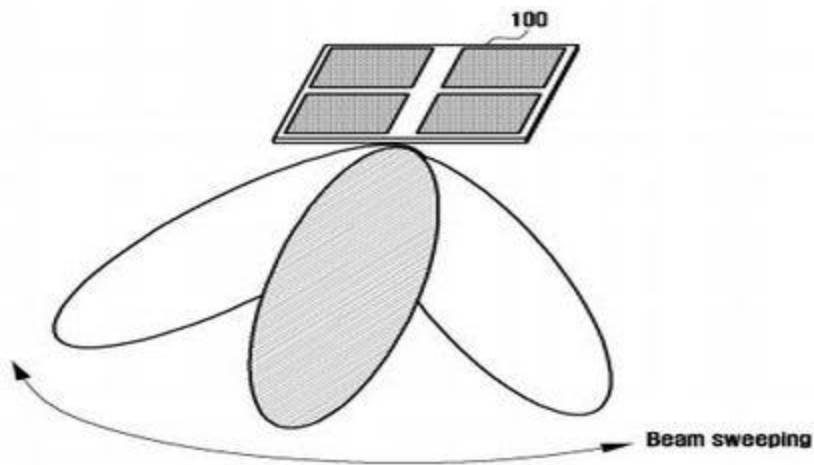
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Daehyun KANG
4)Byungjoon PARK
5)Hyunchul PARK
6)Juho SON

(57) Abstract :

A communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT) are provided. The disclosure may be applied to intelligent services based on the 5G communication technology and the IoT-related technology, such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security and safety services. The electronic device includes a first antenna module including a first amplifier configured to amplify a signal received from a communication circuit, a second antenna module including a second amplifier configured to amplify a signal received from the communication circuit, and an impedance matching circuit disposed between an output terminal of the first amplifier and an output terminal of the second amplifier.



No. of Pages : 27 No. of Claims : 20

(54) Title of the invention : SYSTEM FOR MANAGING TORQUE DISTRIBUTION TO TRACTION WHEELS OF A HYBRID ELECTRIC VEHICLE WITH FOUR WHEEL DRIVE CAPABILITY

(51) International classification :B60W0010080000,
B60W0020000000,
B60W0010060000,
B60K0006480000,
B60K0006520000

(31) Priority Document No :2018- 241460

(32) Priority Date :25/12/2018

(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

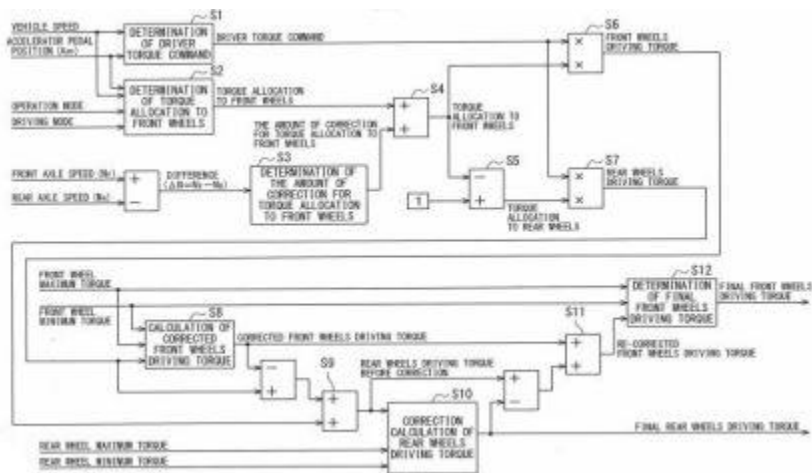
Filing Date :NA

(71)Name of Applicant :
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Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :
1)Haruto TOYAMA
2)Yoshiki ITO
3)Toru HIGUCHI

(57) Abstract :

A hybrid electric vehicle with four wheel drive capability includes an engine 2 drivably connected to a front set of traction wheels 5, a battery 8, and an electric motor 4 drivably connected to a rear set of traction wheels 6 and electrically coupled to the battery 8. A vehicle control module (VCM) 13 receives the vehicle speed and an accelerator pedal position and determines a driver driving torque command using the vehicle speed and the accelerator pedal position. A minimum torque required for the engine 2 to maintain its stable running is determined. The engine 2 is operated such that the engine 2 provides torque (i.e. engine torque) not lower than the minimum torque required for the engine 2 to maintain its stable running, while the motor generator 4 is operated such that the motor generator 4 provides torque, allowing for a shortage in achieving the driver driving torque command, in four wheel drive mode.



No. of Pages : 35 No. of Claims : 4

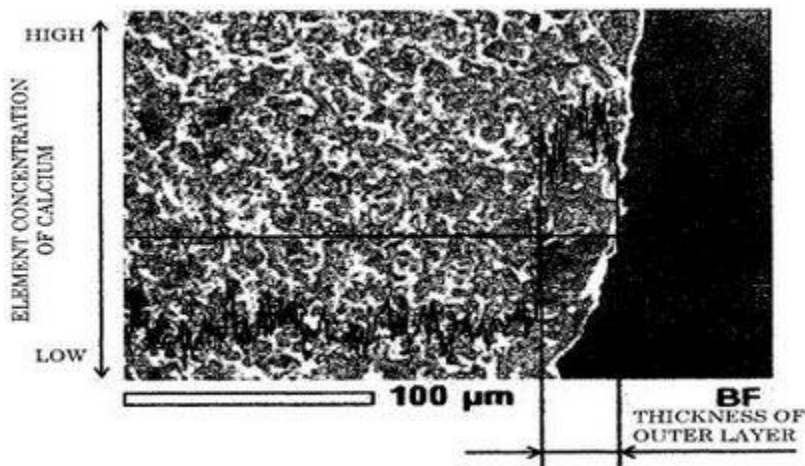
(54) Title of the invention : ALUMINA SINTERED BODY, ABRASIVE GRAIN, AND GRINDING WHEEL

(51) International classification :C09K 3/14, B24D 3/00
 (31) Priority Document No :2017-248428
 (32) Priority Date :25/12/2017
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2018/047989
 Filing Date :19/12/2018
 (87) International Publication No :WO/2019/131817
 (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)SHOWA DENKO K.K.
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 (72)Name of Inventor :
1)MIYAISHI, So

(57) Abstract :

Problem to be Solved To provide an alumina sintered body, abrasive grains, and a grinding wheel having high hardness and excellent wear resistance. Solution An alumina sintered body comprising: an inner layer comprising alumina crystal grains; and an outer layer covering at least a part of the inner layer from outside, having a higher content of an alkaline earth metal than the inner layer, and comprising alumina crystal grains, wherein the content of the alkaline earth metal in the outer layer is 1.0 to 30.0 mass% in terms of oxide, the alumina sintered body being free from silicon except unavoidable impurities.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917046821 A

(19) INDIA

(22) Date of filing of Application :18/11/2019

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD FOR PRODUCING ANTIBACTERIAL SHOCK-ABSORBING SHOES

(51) International classification	:A43D 8/46, A43D 25/18, C09J 4/06, C09J 4/02, C09J 11/04
(31) Priority Document No	:201810438075.6
(32) Priority Date	:09/05/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2018/121988
Filing Date	:19/12/2018
(87) International Publication No	:WO/2019/214241
(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)WHENZHOU ZHONGXI IMPORT AND EXPORT CO., LTD

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(72)Name of Inventor :

1)WANG, Bing

(57) Abstract :

A method for producing antibacterial shock-absorbing shoes, comprising the following steps: a designer designs the last and style of a shoe, and selects materials; attaches paper to the outside of the last and draws a desired style, then removes the paper from the last and attaches same to a paper sheet to make a paper pattern; makes a base pad, a middle pad, and a foot pad according to the paper pattern, and forms a circular hole in the middle pad; selects a leather pad, puts the leather pad in a treatment tank, soaks and treats the leather pad with an antibacterial agent, dries the treated leather pad, forms semi-spherical protrusions on the leather pad and a communication slot between two adjacent semi-spherical protrusions by stamping after drying, forms circular small holes in the tops of the semi-spherical protrusions, glues the leather pad to the middle pad and cuts the two to obtain a shock-absorbing massage pad; covers the last with an upper and performs shaping; and puts the shock-absorbing massage pad and the foot pad into the shoe.

No. of Pages : 10 No. of Claims : 6

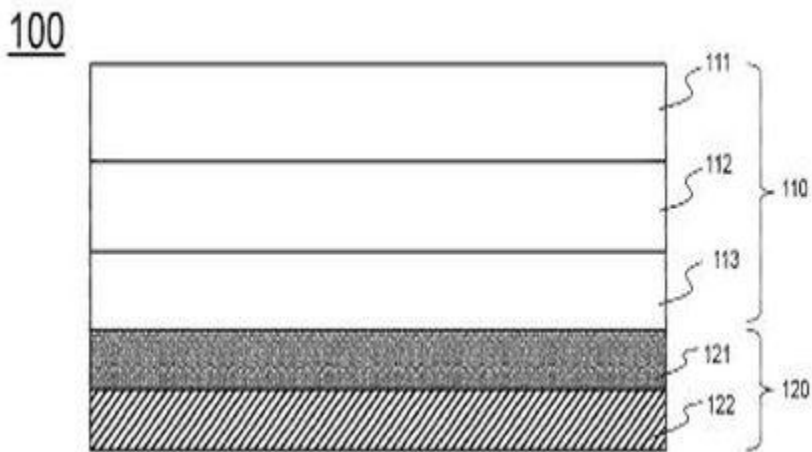
(54) Title of the invention :BATTERY CASE COMPRISING GAS ADSORPTION LAYER"

(51) International classification :H01M 2/02, B01D 53/04
 (31) Priority Document No :10-2018-0002945
 (32) Priority Date :09/01/2018
 (33) Name of priority country :Republic of Korea
 (86) International Application No :PCT/KR2018/016232
 Filing Date :19/12/2018
 (87) International Publication No :WO/2019/139272
 (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 CHEM, LTD.
 Address of Applicant :128,Yeoui-daero Yeongdeungpo-gu
 Seoul 07336 Republic of Korea
 (72)Name of Inventor :
1)JEONG, Hee Seok
2)LEE, Eun Ju
3)KIM, Hyun Min
4)CHOI, Jong Hwan

(57) Abstract :

The present invention relates to a battery case in which an electrode assembly is received together with an electrolyte, the electrode assembly having a structure comprising a positive electrode, a negative electrode, and a separator interposed therebetween, wherein a gas adsorption layer is formed on the inner surface of the battery case, and the gas adsorption layer comprises a gas adsorption material layer for adsorbing gas generated inside a battery, and a barrier layer formed on the outer surface of the gas adsorption material layer so as to prevent the gas adsorption material layer from being exposed to the outside.



No. of Pages : 28 No. of Claims : 8

(54) Title of the invention : A FLUID TRANSPORT SYSTEM

(51) International classification :G01N 35/10, G01N 1/31, B25J 9/00
(31) Priority Document No :2017905115
(32) Priority Date :21/12/2017
(33) Name of priority country :Australia
(86) International Application No :PCT/AU2018/051358
Filing Date :19/12/2018
(87) International Publication No :WO/2019/119037
(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)LEICA BIOSYSTEMS MELBOURNE PTY LTD
Address of Applicant :495 Blackburn Road Mt Waverley, Victoria 3149 Australia
(72)Name of Inventor :
1)MIODUSZEWSKI, Zbigniew
2)RIDGWAY, Aaron
3)KING, Matthew
4)HELLARD, Blake

(57) Abstract :

The present invention relates to a fluid transport system for an automated slide treatment apparatus for treating one or more tissue samples disposed on slides, whereby the slide treatment apparatus includes a plurality of slide treatment modules arranged to receive ones of the slides, and the fluid transport system includes a fluid dispensing robot configured by a controller to dispense a plurality of reagents to said ones of the slides received in the slide treatment modules to treat said one or more tissue samples respectively.

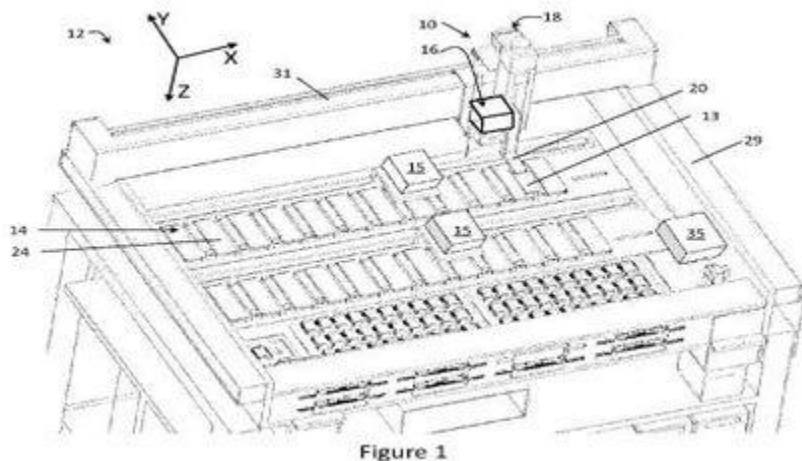


Figure 1

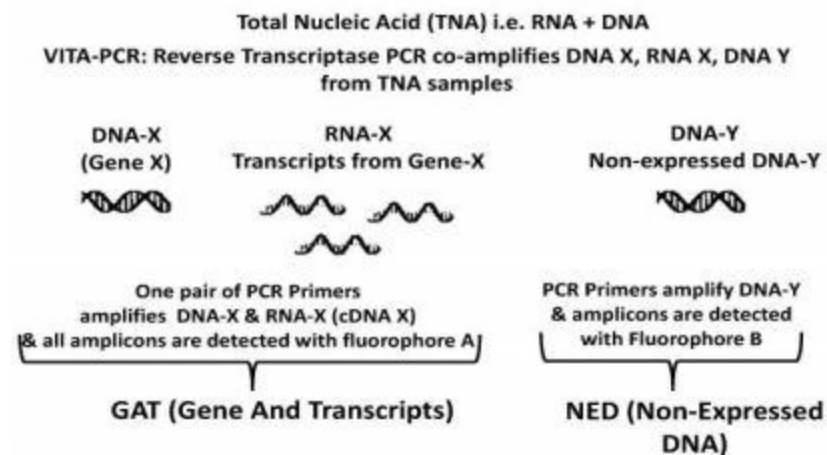
No. of Pages : 21 No. of Claims : 16

(54) Title of the invention : NUCLEIC ACID RATIO DETERMINATION

(51) International classification	:G16B 25/10, C12Q 1/06, C12Q 1/18, C12Q 1/6851, C12Q 1/689	(71)Name of Applicant : 1)SPEEDX PTY LTD Address of Applicant :Suite G16, National Innovation Centre Australian Technology Park 4 Cornwallis Street Eveleigh, New South Wales 2015 Australia (72)Name of Inventor : 1)TODD, Alison Velyian 2)LIMA, Nicole Elizabeth
(31) Priority Document No	:2017905138	
(32) Priority Date	:21/12/2017	
(33) Name of priority country	:Australia	
(86) International Application No	:PCT/AU2018/051406	
Filing Date	:21/12/2018	
(87) International Publication No	:WO/2019/119072	
(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 methods for quantitative data normalisation, and/or ascertaining levels of transcription in cells, organisms, viruses, and the like. The methods can be used in numerous applications including, but not limited to, determining transcriptional upregulation and downregulation, identifying transcriptional perturbation, determining viability/death, and assessing responses to treatment with agents (e.g. resistance or sensitivity to drugs).



No. of Pages : 93 No. of Claims : 47

(54) Title of the invention : ANTIBACTERIAL PRODUCT AND METHOD OF MANUFACTURING THE SAME

(51) International classification :A01N0059160000,
C22C0032000000,
A61L0015460000,
C04B0041510000,
A61K0033380000

(31) Priority Document No :10-2015-0185124
(32) Priority Date :23/12/2015
(33) Name of priority country :Republic of Korea
(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 :201614033105
Filed on :28/09/2016

(71)Name of Applicant :
1)SILVER FUTURE CO., LTD.
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(72)Name of Inventor :
1)HIRAI, AKIKO

(57) Abstract :

An antibacterial product, comprising at least one antibacterial part, wherein the antibacterial part includes a sintered silver-containing surface layer, the sintered silver is silver obtained by sintering silver nitrate as a silver salt compound under a nitrogen atmosphere including nitrogen in an amount of 99 to 100vol% at a temperature of 440°C to 1000°C and the antibacterial product is an antibacterial metal scrubber.



No. of Pages : 43 No. of Claims : 2

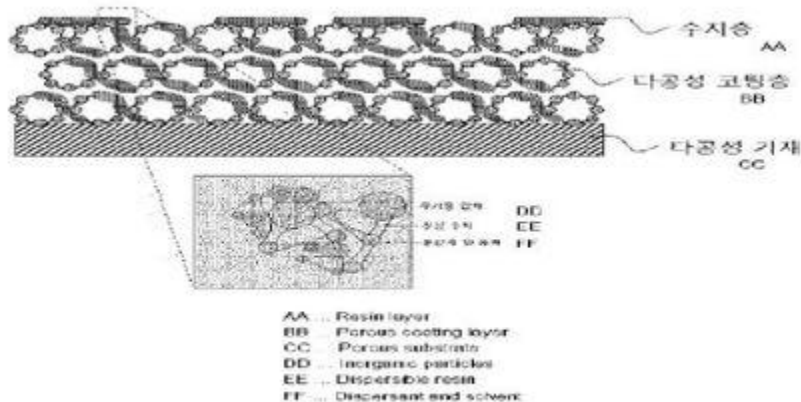
(54) Title of the invention : SEPARATOR FOR SECONDARY BATTERY, AND ELECTROCHEMICAL DEVICE TO WHICH SAME IS APPLIED

(51) International classification :H01M 2/16, H01M 2/14, H01M 10/052
 (31) Priority Document No :10-2018-0002493
 (32) Priority Date :08/01/2018
 (33) Name of priority country :Republic of Korea
 (86) International Application No :PCT/KR2018/016557
 Filing Date :24/12/2018
 (87) International Publication No :WO/2019/135532
 (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 CHEM, LTD.
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 (72)Name of Inventor :
1)HAN, Da Kyung
2)LEE, Seung Hyun
3)SUNG, Dong Wook
4)LEE, Je An

(57) Abstract :

The present invention relates to: a separator for a secondary battery, capable of reducing the use amount of dispersible resin and the use amount of dispersant in order to prevent an increase in resistance, after coating a separator, occurring when a large amount of dispersible resin is used for dispersing an inorganic material; and an electrochemical device to which the same is applied, and can prevent an increase in resistance, occurring after coating a porous separator, by reducing the amount of dispersible resin, improve physical properties and dispersibility by mixing a dispersible resin having a specific weight average molecular weight, and reduce processing costs by preventing the use of an expensive dispersant.



No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017005987 A

(19) INDIA

(22) Date of filing of Application :12/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : HERBICIDAL COMPOSITIONS BASED ON NONANOIC ACID AND KETOACIDS

(51) International classification	:A01N 37/02, A01N 37/42, A01N 25/30, A01P 13/00	(71) Name of Applicant : 1)NOVAMONT S.P.A. Address of Applicant :Via G. Fauser, 8 28100 Novara Italy
(31) Priority Document No	:102017000088554	(72) Name of Inventor :
(32) Priority Date	:02/08/2017	1)SAGLIANO, Angela
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/EP2018/070785	
Filing Date	:31/07/2018	
(87) International Publication No	:WO/2019/030062	
(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 composition comprising a saturated nonanoic acid and/or a saturated nonanoic acid salt, at least one ketoacid and at least one emulsifying agent, to a process for preparing said composition and to the use of said composition in herbicidal applications.

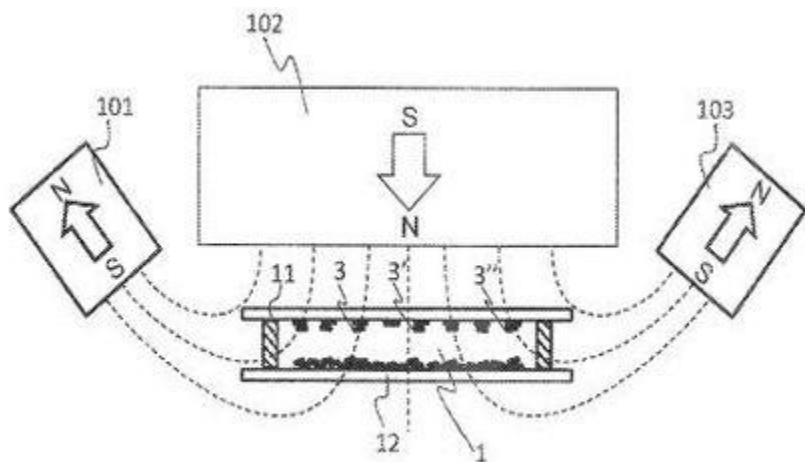
No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : DEVICE AND METHOD FOR THE QUANTIFICATION OF CELLULAR AND NON-CELLULAR BLOOD COMPONENTS

(51) International classification	:G01N 33/49, B01L 3/00	(71)Name of Applicant :
(31) Priority Document No	:102017000082112	1)POLITECNICO DI MILANO
(32) Priority Date	:19/07/2017	Address of Applicant :Piazza Leonardo da Vinci, 32 20133
(33) Name of priority country	:Italy	Milano Italy
(86) International Application No	:PCT/IB2018/055278	(72)Name of Inventor :
Filing Date	:17/07/2018	1)BERTACCO, Riccardo
(87) International Publication No	:WO/2019/016691	2)PETTI, Daniela
(61) Patent of Addition to Application Number	:NA	3)FERRARI, Giorgio
Filing Date	:NA	4)ALBISETTI, Edoardo
(62) Divisional to Application Number	:NA	5)GIACOMETTI, Marco
Filing Date	:NA	

(57) Abstract :

Device (1) for the quantification of cellular and non-cellular components (3, 3', 3'') in a solution containing a blood sample comprising: at least one pair of detection electrodes (4, 4', 5, 5', 6, 6', 34, 34'), said at least one pair of detection electrodes (4, 4', 5, 5', 6, 6', 34, 34') comprising at least one first electrode (4, 5, 6, 34) connected with a first input apt to receive a first signal in input (V+) and a second electrode (4', 5', 6', 34'); at least one pair of reference electrodes (7, 7', 8, 8', 9, 9', 37, 37'), said at least one pair of reference electrodes (7, 7', 8, 8', 9, 9', 37, 37') comprising a first electrode (7, 8, 9, 37) connected with a second input configured to receive a second signal in input (V-) of opposite polarity to the first input signal (V+) and a second electrode (7', 8', 9', 37') connected to the second electrode (4', 5', 6', 34') of said at least one pair of detection electrodes (4, 4', 5, 5', 6, 6', 34, 34'), in a common point wherefrom an output signal (Out) is picked up; at least one concentrator (10, 10', 10'', 14, 14', 14'') of ferromagnetic material, configured to co-operate with a magnetic field external to the device (1), in such a way as to cause the concentration of said components (3, 3', 3'') on said at least one pair of detection electrodes (4, 4', 5, 5', 6, 6', 34, 34'); a substrate (11) configured for the housing of: said at least one pair of detection electrodes (4, 4', 5, 5', 6, 6', 34, 34'), said at least one pair of reference electrodes (7, 7', 8, 8', 9, 9', 37, 37') and said at least one concentrator (10, 10', 10'', 14, 14', 14''); a support (12) configured to collect a sample of blood or of solution containing blood; at least one spacer element (13, 13') configured to confine in the plane of the substrate the blood sample and to distance said substrate (11) from said support (12). The device can be applied to the diagnosis of all those pathologies that cause an alteration of the magnetic properties of one or more types of blood cells and/or give rise to the formation of substances with different magnetic properties from plasma, said substances being absent or in a different concentration in physiological conditions



No. of Pages : 15 No. of Claims : 12

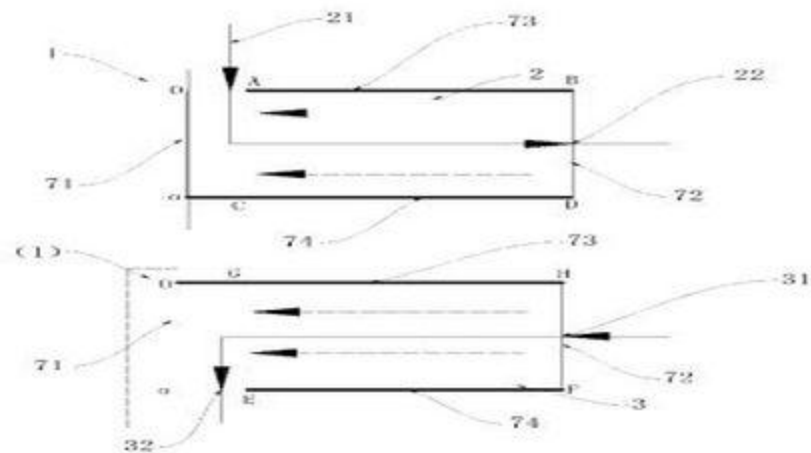
(54) Title of the invention :MEMBRANE ELEMENT AND FILTER CARTRIDGE"

(51) International classification :B01D 63/10
 (31) Priority Document No :201710719677.4
 (32) Priority Date :21/08/2017
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2018/101508
 Filing Date :21/08/2018
 (87) International Publication No :WO/2019/037713
 (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)SHEN, Ke
2)HOU, Yizhi
3)WANG, Chen

(57) Abstract :

Disclosed in the present application are a membrane element and a filter cartridge. The membrane element comprises: a water collecting tube; and a first membrane unit and a second membrane unit wound on the water collecting tube together. A waste water outlet of the first membrane unit is in communication with a raw water inlet of the second membrane unit. When the first membrane unit and the second membrane unit are expanded, the waste water outlet of the first membrane unit and the raw water inlet of the second membrane unit are located on the same side. The first membrane unit and the second membrane unit may be wound on the water collecting tube together in one step. In this implementation, according to the membrane element in embodiments of the present application, the surface flow rate of the membrane element can be improved, the anti-contamination performance of the membrane can be enhanced, the service life of the membrane can be prolonged, and the pure water yield of the membrane element under the same water inlet pressure remains unchanged. In addition, the method for preparing the membrane element in the embodiments of the present application is simple. The membrane element in the embodiments of the present application has a small size.



No. of Pages : 33 No. of Claims : 39

(54) Title of the invention :ELECTRONIC DEVICE FOR TRANSMITTING MESSAGE AND METHOD FOR OPERATING SAME"

(51) International classification :H04M 1/725, G06F 3/0488
(31) Priority Document No :10-2017-0106353
(32) Priority Date :22/08/2017
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2018/009687
Filing Date :22/08/2018
(87) International Publication No :WO/2019/039874
(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)KWON, Bang-Hyun
2)KIM, Jeong-Hoon
3)JEONG, Hye-Soon
4)LIM, Yeun-Wook

(57) Abstract :

An electronic device is disclosed. The electronic device may include a housing; a touchscreen display exposed through a portion of the housing; a wireless communication circuit disposed in the housing; a processor electrically connected to the touchscreen display and the wireless communication circuit; and a memory electrically connected to the processor and configured to store an application including a user interface for transmitting a message through the wireless communication circuit, wherein the memory stores at least one instruction that, when executed by the processor, causes the electronic device to: display the user interface of the application on the touchscreen display; display a virtual keyboard with the user interface and/or to overlap the user interface; receive a first input through the virtual keyboard; hide the virtual keyboard and display a drawing pad with the user interface and/or to overlap the user interface upon receiving the first input; receive a second input through the drawing pad; obtain an image file based on the second input; change the image file based on at least some of information on the application; and transmit the changed image file through the wireless communication circuit to an external electronic device.



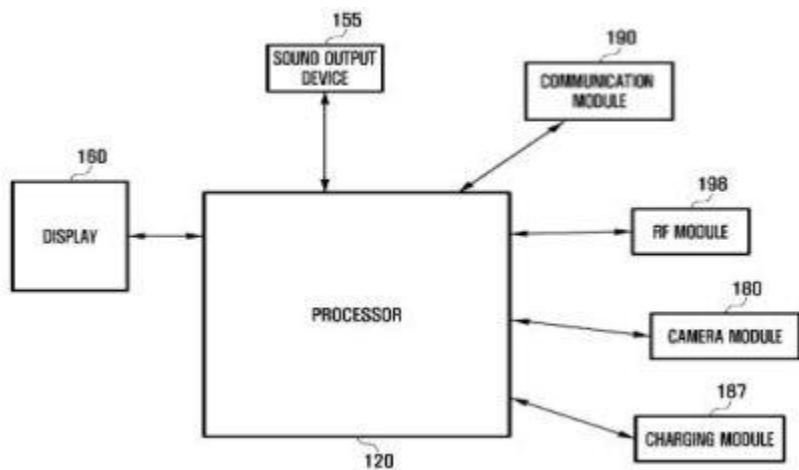
No. of Pages : 32 No. of Claims : 15

(54) Title of the invention : ELECTRONIC DEVICE AND OPERATION CONTROL METHOD THEREOF

<p>(51) International classification :G06F 1/20, G06F 1/32, G05D 23/19, G05B 13/02</p> <p>(31) Priority Document No :10-2017-0106682</p> <p>(32) Priority Date :23/08/2017</p> <p>(33) Name of priority country :Republic of Korea</p> <p>(86) International Application No :PCT/KR2018/009679</p> <p style="padding-left: 20px;">Filing Date :22/08/2018</p> <p>(87) International Publication No :WO/2019/039869</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(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</p> <p>(72)Name of Inventor : 1)KIM, Heetae 2)KIM, Kuntak 3)YANG, Mansu 4)CHOI, Seungchul 5)KOO, Kyungha 6)KWON, Soongyu 7)MOON, Soohyun 8)SEO, Kyungsoo 9)LEE, Myungkee 10)LIM, Jihwan 11)JANG, Hyuntae 12)JEONG, Kyejeong</p>
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(57) Abstract :

A control method by an electronic device is provided. The control method includes monitoring current consumption for each of a plurality of components of the electronic device, predicting a first surface temperature of the electronic device and detecting a location where heat is generated, predicting a second surface temperature by analyzing power consumption of a component corresponding to the location where heat is generated, determining whether the predicted second surface temperature is greater than or equal to a predetermined temperature, setting a target temperature when the predicted second surface temperature is greater than or equal to the predetermined temperature, and controlling the component to reduce the power consumption.



No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017006044 A

(19) INDIA

(22) Date of filing of Application :12/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : MANUFACTURING PROCESS FOR THE PRODUCTION OF A LIPID-FIBER POWDER

(51) International classification	:A23L 19/00, A23L 23/10, A23L 33/115, A23L 33/105, A23L 33/21	(71)Name of Applicant : 1)SOCIETE DES PRODUITS NESTLE S.A. Address of Applicant :Entre-deux-Villes 1800 Vevey Switzerland
(31) Priority Document No	:17198514.6	(72)Name of Inventor :
(32) Priority Date	:26/10/2017	1)GADDIPATI, Sanyasi
(33) Name of priority country	:EPO	2)PERDANA, Jimmy
(86) International Application No	:PCT/EP2018/078835	3)KIM, Youngbin
Filing Date	:22/10/2018	4)BOZON, Annabel
(87) International Publication No	:WO/2019/081398	5)SCHROEDER, Volker
(61) Patent of Addition to Application Number	:NA	6)SAGALOWICZ, Laurent
Filing Date	:NA	7)FERNANDEZ FARRES, Isabel
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a manufacturing process for the production of a lipid-fiber powder. In particularly the invention relates to a process for the production of a lipid-fiber powder having between 40 to 78wt% of oil or fat (by weight of total lipid-fiber powder) and 22 to 60wt% of a vegetable fiber (by weight of total lipid-fiber powder), wherein the fiber is characterized by having a rate of hydration between 15 to 500 cP/min and wherein the oil or fat has a solid fat content (SFC) at 20°C below 12 wt%.

No. of Pages : 19 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017006045 A

(19) INDIA

(22) Date of filing of Application :12/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROCESS FOR THE PRODUCTION OF A BOUILLON TABLET, BOUILLON TABLET AND ITS USE

(51) International classification :A23L 33/22, A23L 23/10
(31) Priority Document No :17198522.9
(32) Priority Date :26/10/2017
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2018/078838
Filing Date :22/10/2018
(87) International Publication No :WO/2019/081400
(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)PERDANA, Jimmy
3)KIM, Youngbin
4)BOZON, Annabel
5)SCHROEDER, Volker
6)SAGALOWICZ, Laurent

(57) Abstract :

The invention relates to a manufacturing process for the production of a bouillon tablet. In particularly the invention relates to a process for the production of a bouillon tablet comprising a lipid-fiber powder, The invention also relates to the tablet itself and the use thereof for preparing a food product.

No. of Pages : 21 No. of Claims : 14

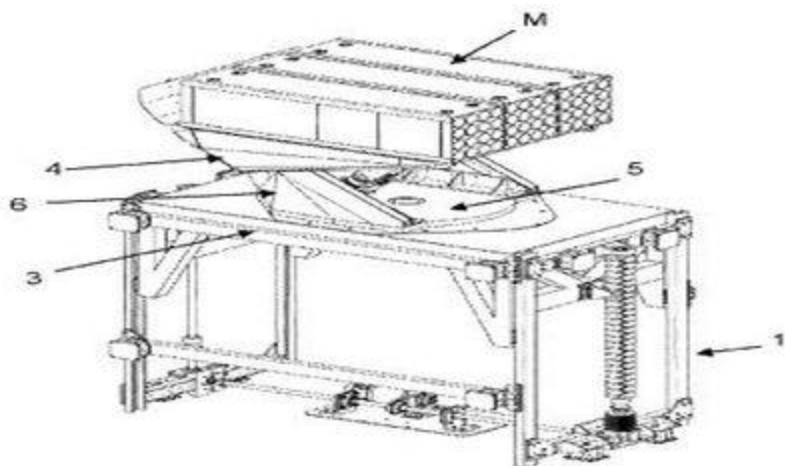
(54) Title of the invention : ROCKET LAUNCH MODULE AND ROCKET LAUNCH VEHICLE

(51) International classification	:F41A 23/42, F41A 23/40, F41A 23/34, F41A 27/06, F41A 27/28
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/BR2017/050235
Filing Date	:17/08/2017
(87) International Publication No	:WO/2019/033182
(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 :Av Engenheiro Juarez de Siqueira Britto Wanderley, 425 12.238-565 SÊo Jos dos Campos - SP Brazil
 (72)Name of Inventor :
1)JEANNOT, Simon Pierre

(57) Abstract :

The present invention relates to a rocket launch module that comprises a base frame (1) comprising at least one rail (2a); a sliding bench (3) configured to slide substantially vertically on said rail (2a) when actuated by the at least one electric linear actuator (11), and a guide device (4) comprising a rotatable base (5) on which is mounted a pivotable body (6) supporting a rocket support portion (7). The sliding bench (3) comprises a platform (8) configured to receive the rotatable base (5) of the guide device (4).



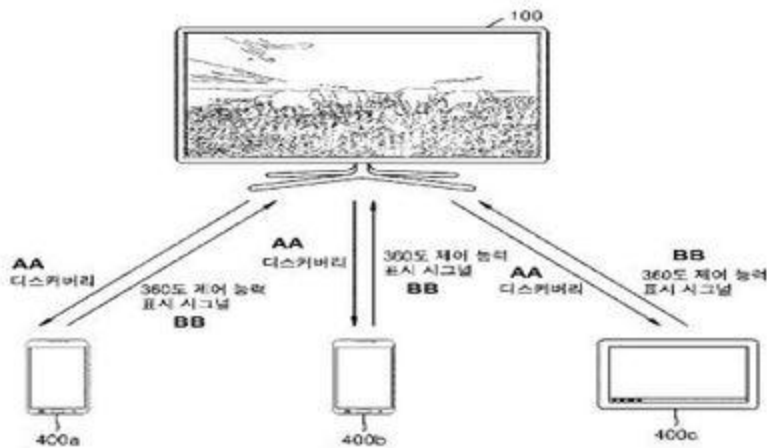
No. of Pages : 18 No. of Claims : 12

(54) Title of the invention :CLIENT DEVICE, COMPANION SCREEN DEVICE, AND OPERATION METHOD THEREFOR"

(51) International classification	:H04N 21/422, H04N 21/436, H04N 21/4363, H04N 21/218	(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
(31) Priority Document No	:1713550.0	(72)Name of Inventor :
(32) Priority Date	:23/08/2017	1)ALDER, Christopher
(33) Name of priority country	:U.K.	2)MORETON, Richard
(86) International Application No	:PCT/KR2018/008475	
Filing Date	:26/07/2018	
(87) International Publication No	:WO/2019/039748	
(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 embodiments, a client device, a companion screen device, and an operation method therefor are disclosed. The disclosed client device comprises: a communication interface; a display; a memory for storing one or more instructions; and a processor for executing the one or more instructions that are stored in the memory, wherein the processor controls the display so as to display at least a part of 360-degree video content by executing the one or more instructions, identifies a companion screen device that has a 360-degree control capability for the 360-degree video content, controls the communication interface so as to connect the identified companion screen device with a communication channel, and controls the display so as to control display of the 360-degree video content according to a control command that is received from the connected companion screen device.



No. of Pages : 38 No. of Claims : 15

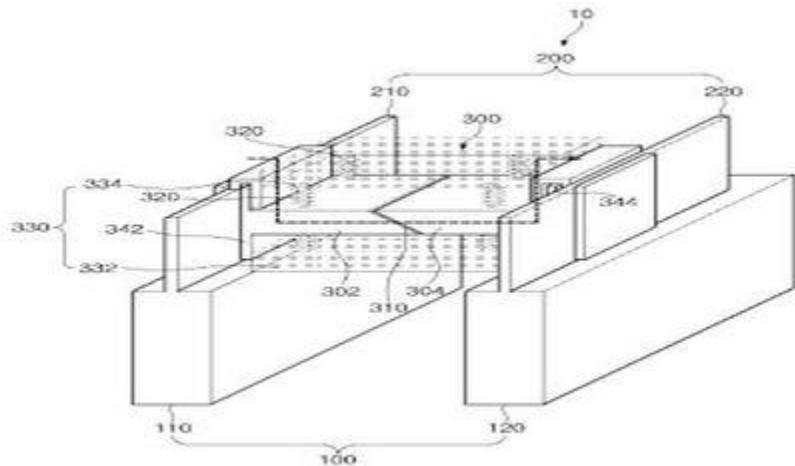
(54) Title of the invention : €CURRENT INTERRUPT DEVICE AND BATTERY MODULE INCLUDING THE SAME€ •

(51) International classification :H01M 2/34, H01M 2/20
(31) Priority Document No :10-2018-0017174
(32) Priority Date :12/02/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2018/015200
Filing Date :03/12/2018
(87) International Publication No :WO/2019/156322
(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 :128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336 Republic of Korea
(72)Name of Inventor :
1)KIM, Kyoung Ho
2)OH, Song Taek
3)CHOI, Jung Seok
4)PARK, Jong Pil

(57) Abstract :

Disclosed are a current interrupt device and a battery module including the current interrupt device. Provided according to an aspect of the present invention is a current interrupt device comprising: a first connection part having an inclined surface formed on one surface thereof; and a second connection part having an inclined surface which is formed on one surface thereof and has a shape corresponding to the inclined surface of the first connection part, wherein the inclined surface of the first connection part and the inclined surface of the second connection part are in contact with each other to form a contact surface, the first connection part and the second connection part are electrically connected to each other, and when an external force equal to or greater than a predetermined level is applied to the first connection part in the direction of the inclined surface of the first connection part or an external force equal to or greater than a predetermined level is applied to the second connection part in the direction of the inclined surface of the second connection part, the inclined surface of the first connection part and the inclined surface of the second connection part are deviated from each other on the contact surface, whereby the first connection part and the second connection part are electrically blocked from each other.



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

(54) Title of the invention :MICRO FLOW MEASUREMENT DEVICES AND DEVICES WITH MOVABLE FEATURES"

(51) International classification :G01F 1/76, G01F 1/82
(31) Priority Document No :62/541128
(32) Priority Date :04/08/2017
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2018/045138
Filing Date :03/08/2018
(87) International Publication No :WO/2019/028331
(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)ENCITE, LLC
Address of Applicant :1 North Avenue Burlington, Massachusetts 01803 U.S.A.
(72)Name of Inventor :
1)MARSH, Stephen Alan

(57) Abstract :

Disclosed is a micro flow device including a body frame defining a chamber and having a first port and a second port into the chamber. A first membrane carrying a first electrode is disposed over a first face of the body frame and a second membrane carrying a second electrode is disposed over a second face of the body frame. An axle member is disposed in the chamber affixed to the first and second membrane and a wheel member is disposed in the chamber about the axle member and spaced from the axle element by a gap. An interrupter feature is formed on the wheel, with the interrupter feature causing a variation in capacitance between the first and second electrodes during rotation of the wheel. Also disclosed are techniques for providing freely rotating, sliding, moving, etc. features in devices fabricated by roll to roll processes.

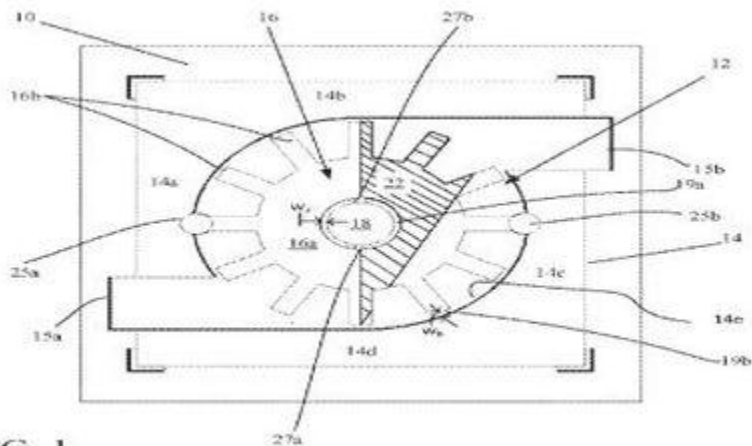


FIG. 1

No. of Pages : 26 No. of Claims : 28

(54) Title of the invention : €CONNECTION DEVICE FOR A TUBULAR FILTER MODULE€ •

(51) International classification :B01D 63/00, B01D 65/00, A61M 1/16, C02F 1/44

(31) Priority Document No :10 2017 214 263.4

(32) Priority Date :16/08/2017

(33) Name of priority country :Germany

(86) International Application No :PCT/EP2018/071989

Filing Date :14/08/2018

(87) International Publication No :WO/2019/034637

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

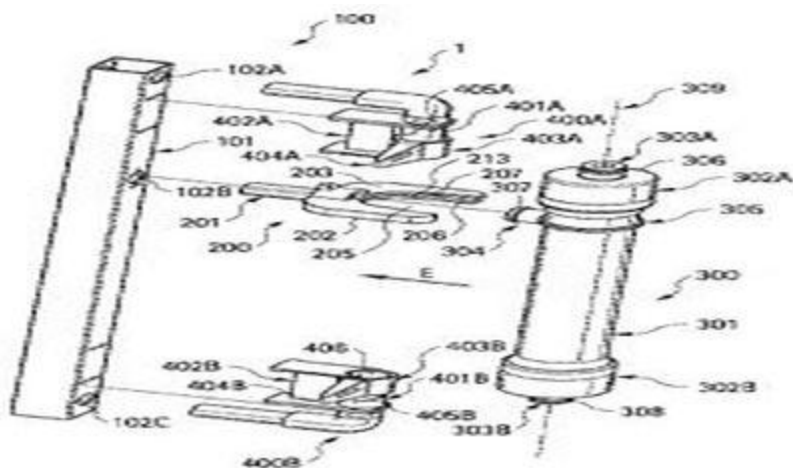
Filing Date :NA

(71)Name of Applicant :
1)FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH
 Address of Applicant :Else-Krner-Str. 1 61352 Bad Homburg Germany

(72)Name of Inventor :
1)HEINZ, Thomas
2)KELLER, Torsten
3)WIESEN, Gerhard

(57) Abstract :

The invention relates to a connection device for receiving and connecting filter modules, particularly tubular filter modules, to at least one lateral, particularly radial connector, a connecting mechanism of the connection device connecting the filter module to the lateral connector and fixing it in the connection device. Other connecting mechanisms of the connection device are used to connect connectors that are coaxially arranged on the filter module, the coaxial connectors not being fixed by the other connecting mechanisms.



No. of Pages : 26 No. of Claims : 18

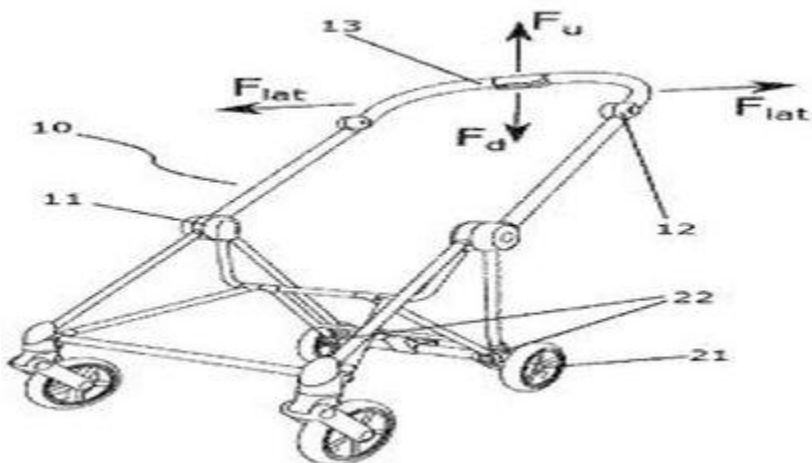
(54) Title of the invention : €STROLLER FRAME AND STROLLER€ •

(51) International classification :B62B 5/00
 (31) Priority Document No :20 2017 104 166.2
 (32) Priority Date :12/07/2017
 (33) Name of priority country :Germany
 (86) International Application No :PCT/EP2018/068994
 Filing Date :12/07/2018
 (87) International Publication No :WO/2019/012060
 (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)CYBEX GMBH
 Address of Applicant :Riedinger Strae 18 95448 Bayreuth
 Germany
 (72)Name of Inventor :
1)POWELL, Iain
2)SPOUR, Jiri

(57) Abstract :

A stroller frame, comprising at least one motor, particularly an electric motor, for assisted driving of the stroller frame, a pusher bar (10) for pushing the stroller frame and at least one force sensor device for detecting a direction and/or an amount of force and/or a force component acting on the pusher bar (10), and/or for detecting a value derived from said force or force component, particularly a temporal change of the force or force component.



No. of Pages : 18 No. of Claims : 23

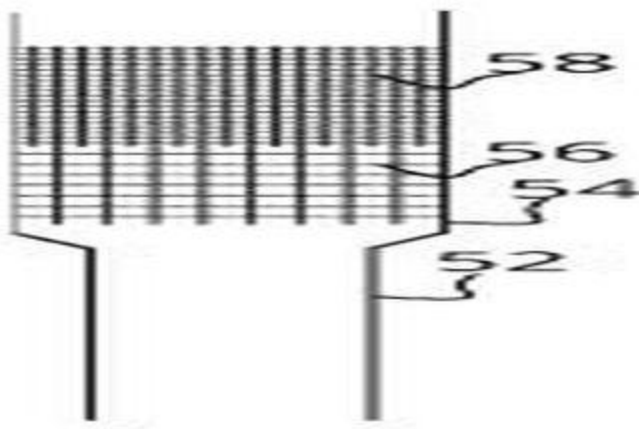
(54) Title of the invention :A PROCESS FOR REMOVAL OF AEROSOL DROPLETS"

(51) International classification :B01D 45/08, B01D 46/00, B01D 50/00
(31) Priority Document No :PA 2017 00438
(32) Priority Date :08/08/2017
(33) Name of priority country :Denmark
(86) International Application No :PCT/EP2018/070399
Filing Date :27/07/2018
(87) International Publication No :WO/2019/030017
(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 TOPS-E A/S
Address of Applicant :Haldor Tops,es All 1 2800 Kgs. Lyngby Denmark
(72)Name of Inventor :
1)S-RENSEN, Per Aggerholm
2)THELLEFSEN, Morten

(57) Abstract :

The present disclosure relates to a process for removal of an aerosol, comprising the steps of directing a process gas comprising an aerosol to contact an inertial demister providing a first demisted process gas, and directing the first demisted process gas to contact a coalescing demister providing a second demisted process gas, characterized in said first inertial demister being more open than said coalescing demister, where more open is defined as having a higher void fraction or a lower density with the associated benefit of such a process providing an efficient removal of a large volume of liquid from the inertial demister, while avoiding flooding of the demister system. It further relates to a process plant for sulfuric acid production employing such a pair of demisters.



No. of Pages : 16 No. of Claims : 15

(54) Title of the invention :BATTERY MODULE HAVING STRUCTURE BREAKING CONNECTOR BY USING VENTING GAS"

(51) International classification :H01M 2/34, H01M 2/12, H01M 2/26, H01M 2/02, H01M 2/20

(31) Priority Document No :10-2017-0115358

(32) Priority Date :08/09/2017

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2018/008130

Filing Date :18/07/2018

(87) International Publication No :WO/2019/050152

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

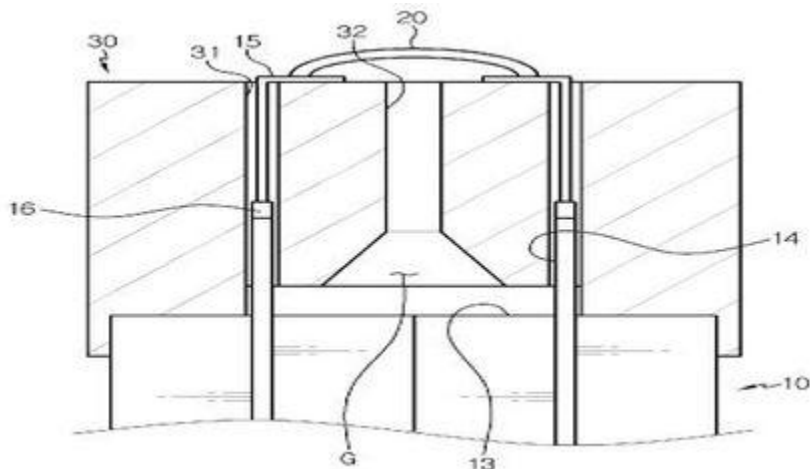
Filing Date :NA

(71)Name of Applicant :
1)LG CHEM, LTD.
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(72)Name of Inventor :
1)RYU, Jae-Uk
2)KANG, Dal-Mo
3)KIM, Su-Chang
4)MUN, Jeong-O
5)YOON, Ji-Su

(57) Abstract :

A battery module according to one embodiment of the present invention comprises: a cell laminate having electrode leads and composed of a first battery cell and a second battery cell that are laminated so as to face each other; a connector for connecting the electrode leads of each of the pair of battery cells; and a support frame provided on at least one side of the cell laminate and having a pair of lead slits, through which the electrode leads are drawn out, and a jetting slit which is formed at a position corresponding to the connector and provides a passage through which venting gas discharged at the time of venting the battery cells is sprayed out.



No. of Pages : 18 No. of Claims : 12

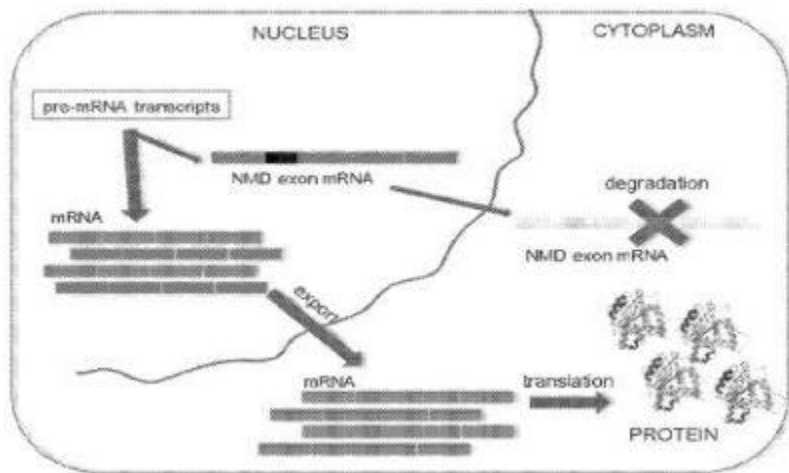
(54) Title of the invention : ANTISENSE OLIGOMERS FOR TREATMENT OF CONDITIONS AND DISEASES

(51) International classification :C12Q 1/68, C12N 15/113
(31) Priority Document No :62/550462
(32) Priority Date :25/08/2017
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2018/048031
Filing Date :24/08/2018
(87) International Publication No :WO/2019/040923
(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 :45 Wiggins Avenue Bedford, Massachusetts 01730 U.S.A.
(72)Name of Inventor :
1)AZNAREZ, Isabel
2)HAN, Zhou

(57) Abstract :

[00440] Alternative splicing events in SCN1A gene can lead to non-productive mRNA transcripts which in turn can lead to aberrant protein expression, and therapeutic agents which can target the alternative splicing events in SCN1A gene can modulate the expression level of functional proteins in Dravet Syndrome patients and/or inhibit aberrant protein expression. Such therapeutic agents can be used to treat a condition caused by SCN1A, SCN8A or SCN5A protein deficiency.



No. of Pages : 117 No. of Claims : 77

(54) Title of the invention : DYED POLYPROPYLENE FIBER STRUCTURE, GARMENT USING SAME, AND ANTHRAQUINONE COMPOUND

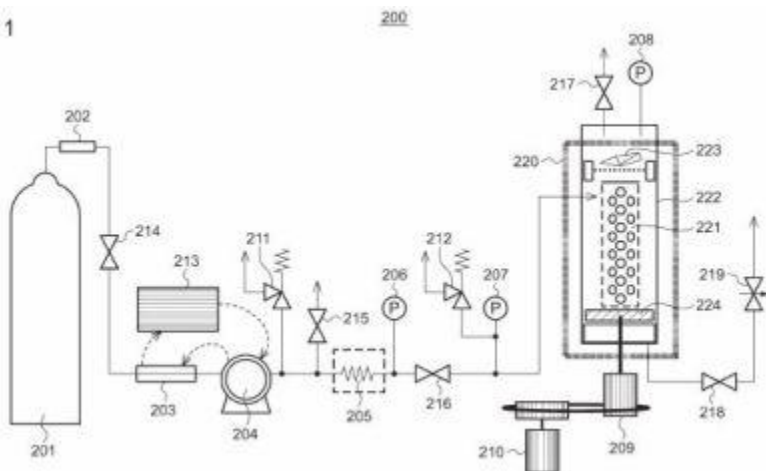
(51) International classification :D06P 1/42, C09B 1/32, D06P 3/79
 (31) Priority Document No :2018-011784
 (32) Priority Date :26/01/2018
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2018/037918
 Filing Date :11/10/2018
 (87) International Publication No :WO/2019/146174
 (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)UNIVERSITY OF FUKUI
3)ARIMOTO CHEMICAL CO.,LTD.
 (72)Name of Inventor :
1)MIYAZAKI Keisuke
2)KOGA Koichi
3)HORI Teruo
4)HIROGAKI Kazumasa
5)TABATA Isao

(57) Abstract :

A dyed polypropylene fiber structure according to one embodiment of the present invention is dyed with a blue dye that is represented by general formula (1) (wherein R1 represents a linear or branched alkyl group having 4-14 carbon atoms).

FIG. 1



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017007716 A

(19) INDIA

(22) Date of filing of Application :24/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : EDIBLE COMPOSITION WITH FILAMENTOUS FUNGI AND BIOREACTOR SYSTEM FOR THE CULTIVATION THEREOF

(51) International classification :A23L 33/195, C12R 1/77, A23J 3/20, C12R 1/645, A23L 31/00
(31) Priority Document No :62/552093
(32) Priority Date :30/08/2017
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2018/048626
Filing Date :29/08/2018
(87) International Publication No :WO/2019/046480
(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 :1452 E. 53rd Street Chicago, Illinois 60615 U.S.A.

(72)Name of Inventor :

1)KOZUBAL, Mark A.

2)MACUR, Richard E.

3)AVNIEL, Yuval C.

4)HAMILTON, Maximilian DeVane

(57) Abstract :

Methods of production of edible filamentous fungal biomat formulations are provided as standalone protein sources and/or protein ingredients in foodstuffs as well as a one-time use or repeated use self-contained biofilm-biomat reactor comprising a container with at least one compartment and placed within the compartment(s), a feedstock, a fungal inoculum, a gas-permeable membrane, and optionally a liquid nutrient medium.



No. of Pages : 55 No. of Claims : 37

(54) Title of the invention : MALARIA VACCINE

(51) International classification :C07K 14/445, A61K 39/015
 (31) Priority Document No :1712092.4
 (32) Priority Date :27/07/2017
 (33) Name of priority country :U.K.
 (86) International Application No :PCT/GB2018/052122
 Filing Date :27/07/2018
 (87) International Publication No :WO/2019/021013
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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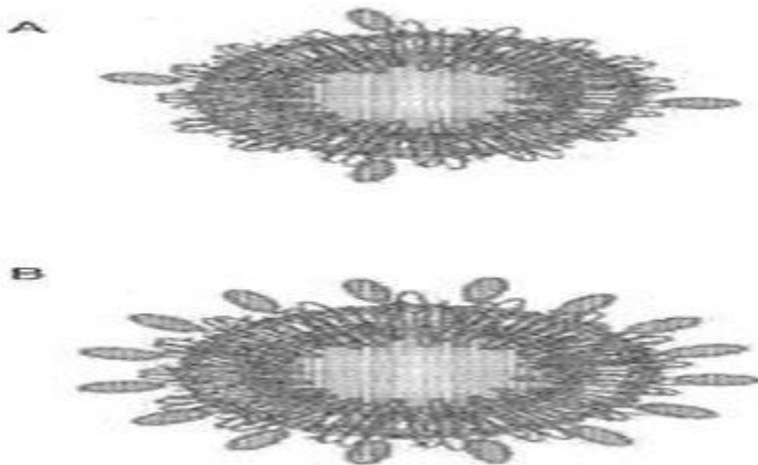
Oxford Oxfordshire OX2 0JB U.K.

(72)Name of Inventor :

1)HILL, Adrian V.S.**2)EWER, Katie**

(57) Abstract :

The invention relates to a composition comprising a polypeptide comprising, or consisting of, the amino acid sequence of SEQ ID NO: 1, or a sequence having at least 80%, 85%, 90%, 95%, 98%, or 99% sequence identity to SEQ ID NO: 1 (R21), wherein said polypeptide is in the form of a virus-like particle (VLP), wherein said particle comprises less than 10% free hepatitis B surface antigen protein, for use in the immunisation of a human subject susceptible to Plasmodium falciparum infection, characterised in that said composition is administered in a dosage regimen of at least one dose of 1 µg to 20 µg R21 per administration for a subject at least 18 years old, or at least one dose of 0.5 µg to 10 µg R21 per administration for a subject less than 18 years old. The invention also relates to kits, methods and uses.



No. of Pages : 104 No. of Claims : 30

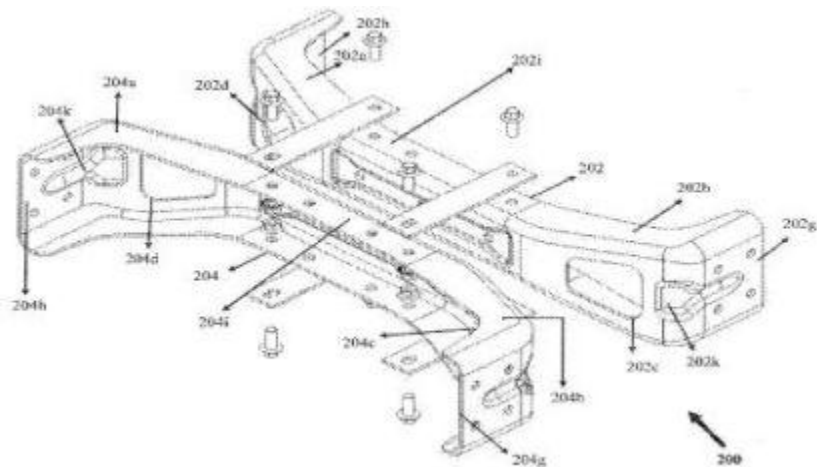
(54) Title of the invention :AN IMPROVED CROSS MEMBER AND CROSS MEMBER ASSEMBLY FOR A VEHICLE FRAME"

(51) International classification :B62D 21/02
 (31) Priority Document No :201711030125
 (32) Priority Date :25/08/2017
 (33) Name of priority country :India
 (86) International Application No :PCT/IN2018/050543
 Filing Date :23/08/2018
 (87) International Publication No :WO/2019/038788
 (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)METALSA INDIA PRIVATE LIMITED
 Address of Applicant :27, First Floor, Babar Lane, Bengali Market Delhi 110001 Delhi India
 (72)Name of Inventor :
1)KALE, Ganesh Gulab
2)GOKHALE, Kaushal Rajiv

(57) Abstract :

The present invention provides for cross members and cross member assembly for use in vehicle chassis. The present invention also provides for a process of manufacture of cross member and cross member assembly for use in vehicle chassis. The cross member and cross member assembly facilitates a reduction in the weight of the chassis and the weight of the vehicle, reduction in number of parts, flexibility, modularity, and assembly time of the chassis and the vehicle.



No. of Pages : 12 No. of Claims : 31

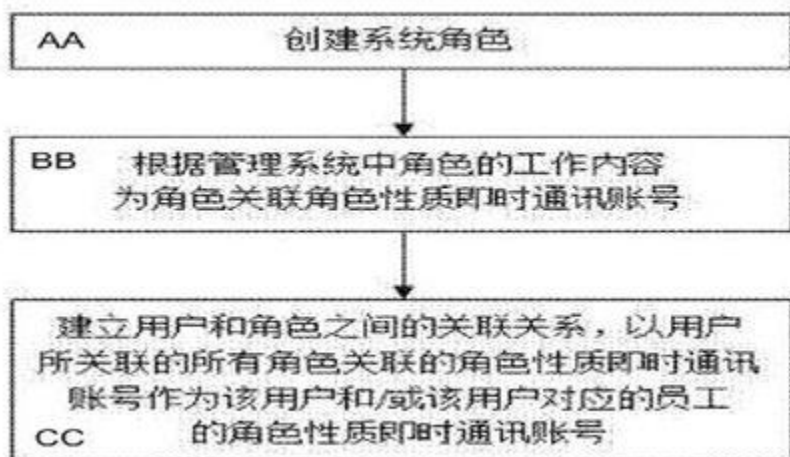
(54) Title of the invention : METHOD FOR MANAGING INSTANT MESSAGING ACCOUNT IN MANAGEMENT SYSTEM

(51) International classification :H04L 9/32, H04L 12/58
 (31) Priority Document No :201710633373.6
 (32) Priority Date :28/07/2017
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2018/097673
 Filing Date :27/07/2018
 (87) International Publication No :WO/2019/020118
 (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 :No.1609, 16th Floor, Hemei Haitang Center (Tianfu Chuangke) No.2039, South Section of Tianfu Avenue, Tianfu New Area, China (Sichuan) Pilot Free Trade Zone Chengdu, Sichuan 610000 China
 (72)Name of Inventor :
1)CHEN, Dazhi

(57) Abstract :

Disclosed in the present invention is a method for managing an instant messaging account in a management system. The method comprises: creating a system role, the role being an independent individual; associating the role with a role property instant messaging account according to work content of a role in the management system, on role property instant messaging account being capable of being only associated with one role and one role being capable of being only associated with one role property instant messaging account in a timer period; and establishing an association relationship between the user and the role, and using the role property instant messaging account associated with the role property associated with the user as the role property instant messaging account for the user and/or an employee corresponding to the user. In the present invention, an employee obtains a role property instant messaging account by means of a corresponding role associated with a user. When the employee leaves an enterprise, the association between the user and the role corresponding to the employee is canceled, and the employee leaving the enterprise automatically loses a permission to avoid the risk of leakage of the confidential information of the enterprise. When the employee changes a position, seamless connection is achieved, and the lag or the omission of a communication account handover is avoided.



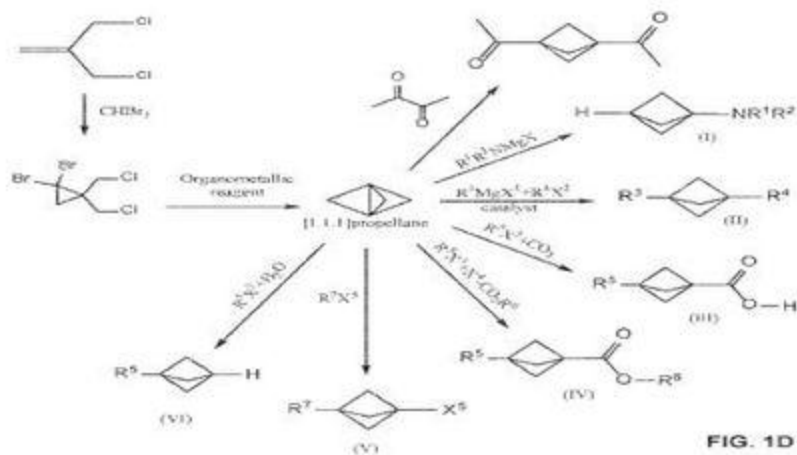
No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : CONTINUOUS FLOW PROCESSES FOR MAKING BICYCLIC COMPOUNDS

(51) International classification	:C07C 1/28, C07C 13/36, C07C 45/45, C07C 49/323, C07C 13/605	(71)Name of Applicant : 1)RECURIUM IP HOLDINGS, LLC Address of Applicant :10835 Road to the Cure Suite 205 San Diego, California 92121 U.S.A.
(31) Priority Document No	:62/556897	(72)Name of Inventor :
(32) Priority Date	:11/09/2017	1)PINCHMAN, Joseph, Robert
(33) Name of priority country	:U.S.A.	2)BUNKER, Kevin, Duane
(86) International Application No	:PCT/US2018/049680	3)BIO, Matthew, M.
Filing Date	:06/09/2018	4)BREEN, Christopher
(87) International Publication No	:WO/2019/051038	5)CLAUSEN, Andrew, M.
(61) Patent of Addition to Application Number	:NA	6)FANG, Yuanqing
Filing Date	:NA	7)LI, Hui
(62) Divisional to Application Number	:NA	8)SHEERAN, Jillian, W.
Filing Date	:NA	

(57) Abstract :

Processes for making bicyclic compounds and precursors thereof, and particularly for making [1.1.1]propellane and bicyclo[1.1.1]pentane and derivatives thereof, utilize continuous flow reaction methods and conditions. A continuous process for making [1.1.1]propellane can be conducted under reaction conditions that advantageously minimize clogging of a continuous flow reactor. A continuous flow process can be used to make precursors of [1.1.1]propellane.



No. of Pages : 38 No. of Claims : 31

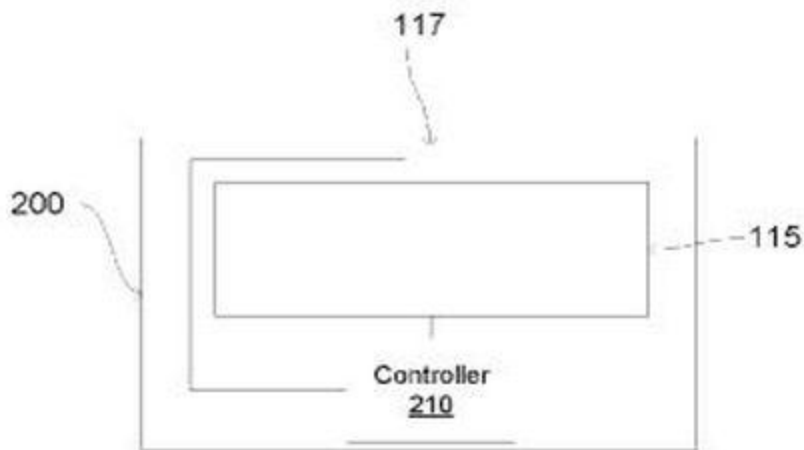
(54) Title of the invention :MODIFYING CAPTURE OF VIDEO DATA BY AN IMAGE CAPTURE DEVICE BASED ON VIDEO DATA PREVIOUSLY CAPTURED BY THE IMAGE CAPTURE DEVICE"

(51) International classification	:H04N 21/2743, H04N 21/258, H04N 21/4728
(31) Priority Document No	:62/554564
(32) Priority Date	:05/09/2017
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2018/049532
Filing Date	:05/09/2018
(87) International Publication No	:WO/2019/050938
(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)CHEUNG, Vincent, Charles

(57) Abstract :

Various client devices include displays and one or more image capture devices configured to capture video data. Different users of an online system may authorize client devices to exchange information captured by their respective image capture devices. Additionally, a client device modifies captured video data based on users identified in the video data. For example, the client device changes parameters of the image capture device to more prominently display a user identified in the video data and may further change parameters of the image capture device based on gestures or movement of the user identified in the video data. The client device may apply multiple models to captured video data to modify the captured video data or subsequent capturing of video data by the image capture device.



No. of Pages : 47 No. of Claims : 60

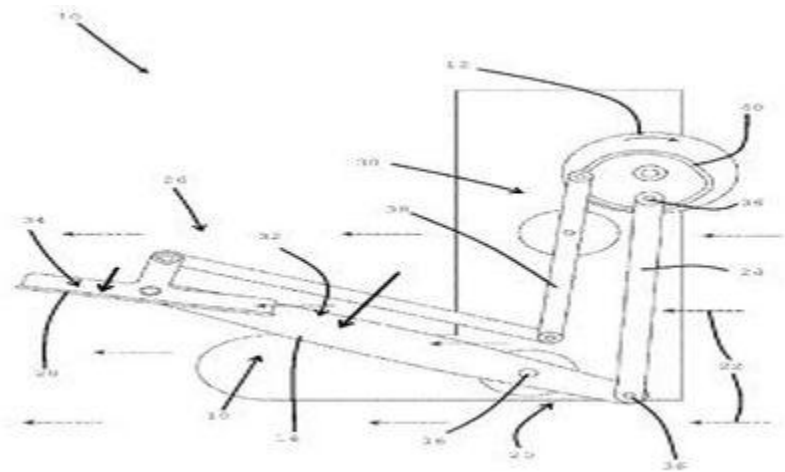
(54) Title of the invention : FLUID FLOW ENERGY HARVESTER

(51) International classification :F03B 17/06, F03B 13/26
 (31) Priority Document No :2017903532
 (32) Priority Date :01/09/2017
 (33) Name of priority country :Australia
 (86) International Application No :PCT/AU2018/050886
 Filing Date :21/08/2018
 (87) International Publication No :WO/2019/040974
 (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)ENGLISH, Douglas Richard

(57) Abstract :

Provided is a fluid flow energy harvester (10) comprising a crankshaft (12) and at least one vane (14) pivoted into a sail portion (18) and a crank portion (20) on respective sides of the pivot (16). Both portions (18) and (20) are operatively oscillatable about the pivot (16) when the crank portion (20) is operatively arranged facing into a fluid flow (22). The crank portion (20) is linked to the crankshaft (12) via a crank (24) so that operative oscillation of the vane (14) imparts rotational force to said crankshaft (12). The harvester (10) also includes a fin arrangement (26) which comprises a fin (28) arranged on, and configured to guide, the sail portion (18) of the vane (14) facing towards or in a direction of the fluid flow (22). The harvester (10) also includes a fin actuator (30) configured to control an orientation of the fin (28) relative to the sail portion (18), so that during oscillation of the sail portion (18), either a surface (32) of the sail portion or a surface of the fin (34) impedes the fluid flow (22) when a surface of the other is parallel to such fluid flow. In this manner, stalling of the vane oscillation is counteracted thereby facilitating continuous rotation of the crankshaft (12) during fluid flow (22).



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017007764 A

(19) INDIA

(22) Date of filing of Application :24/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : DEVICE FOR COATING CONTAINERS BY MEANS OF A COATING PROCESS AND METHOD FOR OPERATING SUCH A DEVICE

(51) International classification	:C23C 16/04, B65D 23/02, B65G 47/90, B65D 23/08, B23Q 7/04	(71)Name of Applicant : 1)KHS CORPOPLAST GMBH Address of Applicant :Meiendorfer Strae 203 22145 Hamburg Germany
(31) Priority Document No	:10 2017 120 650.7	(72)Name of Inventor :
(32) Priority Date	:07/09/2017	1)KYTZIA, Sebastian
(33) Name of priority country	:Germany	2)KONRAD, Joachim
(86) International Application No	:PCT/EP2018/074076	3)HERBORT, Michael
Filing Date	:07/09/2018	
(87) International Publication No	:WO/2019/048583	
(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 device for coating containers (17) by means of a coating process with a main supporting frame, wherein the following devices are present within the main supporting frame: a conveying device (13) for the containers (17), a treatment station for coating the containers (17), a transfer device (1), which moves the containers (17) between the conveying device (13) and the treatment station, wherein the transfer device (1) has a gripper unit (2), which is mounted pivotably along a pivot axis (5) aligned parallel to the conveying device (13) on a gripper frame (7), which is arranged fixed in place in relation to the main supporting frame during the operation of the device, wherein the gripper unit (2) is mounted on a carriage (8) connected to the gripper frame (7) and the carriage (8) can perform linear movements in three mutually perpendicular directions; wherein the gripper unit (2) is movable between a first position, in which it can grip the containers (17) in the region of the conveying device (13), and a second position, in which it can insert the containers (17) into the treatment station and fetch them from it. Furthermore, the invention also relates to a method for operating such a device.

No. of Pages : 16 No. of Claims : 15

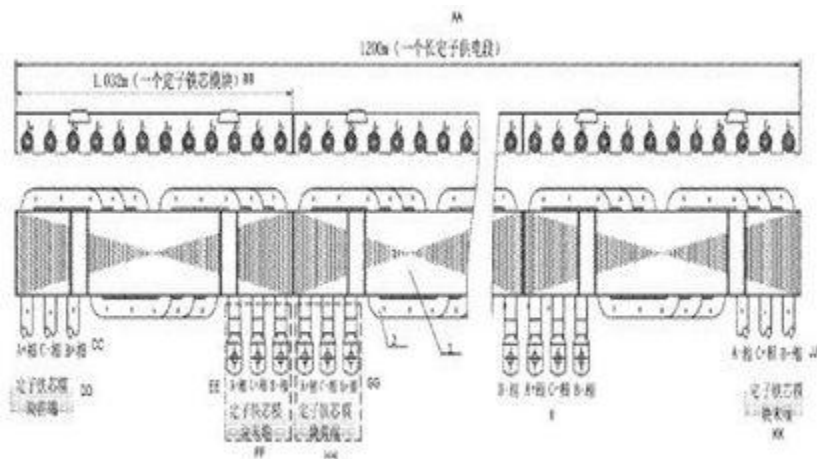
(54) Title of the invention :LONG STATOR POWER SUPPLY SECTION AND LONG STATOR LINEAR MOTOR FOR MAGLEV TRAIN"

(51) International classification :H02K 1/16
 (31) Priority Document No :201710655823.1
 (32) Priority Date :03/08/2017
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2017/105435
 Filing Date :10/10/2017
 (87) International Publication No :WO/2019/024243
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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1)CHEN, Gaohua
2)FENG, Jianghua
3)XIN, Benyu
4)DING, Rongjun
5)TIAN, Kuisen
6)GUO, Shuying

(57) Abstract :

A long stator power supply section and a long stator linear motor for a maglev train, comprising a plurality of stator core modules (1) and stator coils (2) equal in number to the stator core modules (1). Each stator of the plurality of stator coils (2) is correspondingly embedded into one stator core module of the stator core modules (1) respectively; joints are arranged at both ends of each stator coil (2); the stator coils (2) on every two adjacent stator core modules (1) are detachably connected by means of the joints; and the joints of the stator coils (2) on the stator core modules (1) at both ends are connected to a feeder cable. By employing the long stator power supply section, a construction process may proceed in parallel, the on-site construction period is shortened, and the paving accuracy of the long stator core on a track beam is improved; large-scale special winding equipment is not needed, the cost is low, the difficulty of disassembly and re-embedding is low, the line repair time is short, and the waste of stator coils is reduced.



No. of Pages : 12 No. of Claims : 10

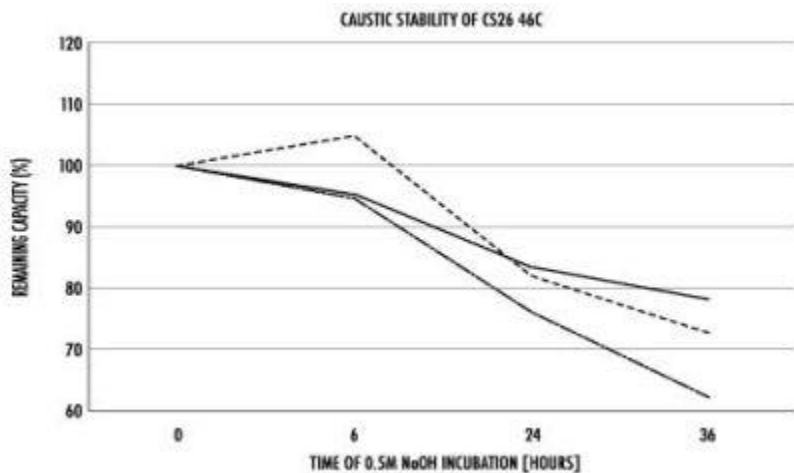
(54) Title of the invention :FC BINDING PROTEINS WITH CYSTEINE IN THE C-TERMINAL HELICAL REGION"

(51) International classification :C07K 14/31, B01D 15/38, B01J 20/289
(31) Priority Document No :PCTEP2017069976
(32) Priority Date :07/08/2017
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2018/071232
Filing Date :06/08/2018
(87) International Publication No :WO/2019/030156
(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 :41 Seyon Street Waltham, Massachusetts 02453 U.S.A.
(72)Name of Inventor :
1)FIEDLER, Erik
2)HAUPTS, Ulrich

(57) Abstract :

The present invention relates to Fc binding proteins comprising one or more domains with Cysteine in the C-terminal helical region. The invention further relates to affinity matrices comprising the Fc binding proteins of the invention. The invention also relates to a use of these Fc binding proteins or affinity matrices for affinity purification of immunoglobulins and to methods of affinity purification using the Fc binding proteins of the invention.



No. of Pages : 26 No. of Claims : 15

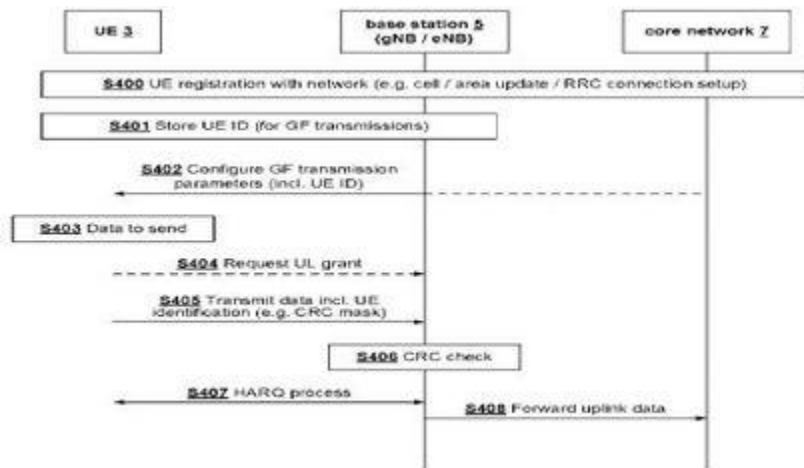
(54) Title of the invention :COMMUNICATION SYSTEM"

(51) International classification :H04W 72/12,
H04W 72/04
(31) Priority Document No :1712863.8
(32) Priority Date :10/08/2017
(33) Name of priority country :U.K.
(86) International Application No :PCT/JP2018/029639
Filing Date :07/08/2018
(87) International Publication No :WO/2019/031517
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)AWAD, Yassin Aden
2)IJAZ, Ayesha
3)ARNOTT, Robert

(57) Abstract :

A communication system is disclosed in which a communication device transmits, to a base station and using communication resources that may be used for grant-free uplink communications, uplink data and information from which the communication device can be identified, wherein the information from which the communication device can be identified comprises a Cyclic Redundancy Check (CRC) value that is encoded with identity information identifying the communication device (for example, a C-RNTI of the communication device).



No. of Pages : 33 No. of Claims : 10

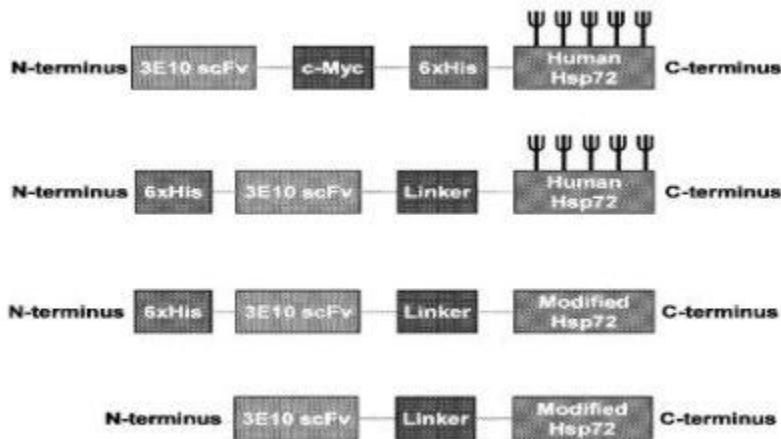
(54) Title of the invention :MODIFIED HEAT SHOCK PROTEINS"

(51) International classification :C07K 14/47
 (31) Priority Document No :62/549860
 (32) Priority Date :24/08/2017
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2018/047976
 Filing Date :24/08/2018
 (87) International Publication No :WO/2019/040887
 (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)PARSEGHIAN, H. Missag

(57) Abstract :

The present disclosure generally relates to modified heat shock protein compositions that improve intracellular performance when delivered across the plasma and/or nuclear membranes. Also provided are methods for treating ocular, neurological, muscular, hepatic, renal, integumentary, cardiovascular and pulmonary conditions with the modified heat shock proteins are disclosed herein.



No. of Pages : 64 No. of Claims : 44

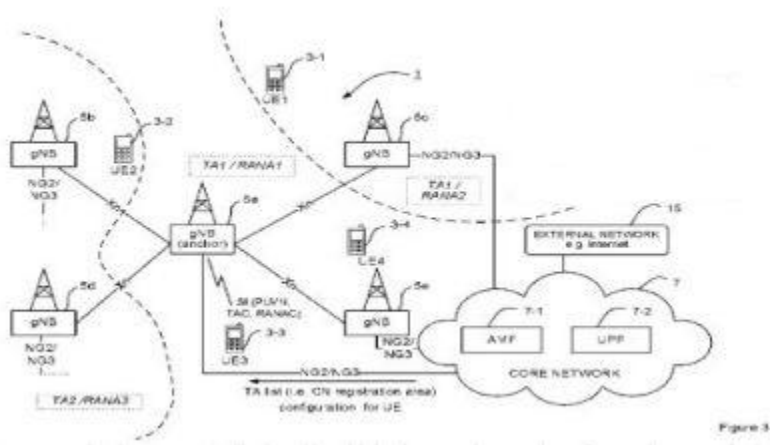
(54) Title of the invention :CONFIGURATION OF A RAN BASED NOTIFICATION AREA FOR A USER EQUIPMENT IN RRC INACTIVE STATE"

(51) International classification :H04W 68/02
 (31) Priority Document No :1712862.0
 (32) Priority Date :10/08/2017
 (33) Name of priority country :U.K.
 (86) International Application No :PCT/JP2018/029637
 Filing Date :07/08/2018
 (87) International Publication No :WO/2019/031515
 (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 :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
 (72)Name of Inventor :
1)CHEN, Yuhua
2)KHIRALLAH, Chadi
3)GUPTA, Neeraj

(57) Abstract :

A communication system is disclosed in which a base station receives, from at least one further base station, information identifying at least one respective tracking area associated with at least one cell of each further base station. The base station also receives, from a core network, information identifying a registration area for a user equipment (UE). The base station defines, based on the received information identifying at least one respective tracking area and the received information identifying a registration area, a radio access network (RAN) based notification area for the UE.



No. of Pages : 28 No. of Claims : 21

(54) Title of the invention :A SINGLE-CHIP SERIES CONNECTED VCSEL ARRAY"

(51) International classification :H01L 33/62, H01S 5/183, H01S 5/40, H01S 5/022

(31) Priority Document No :62/536918

(32) Priority Date :25/07/2017

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2018/043786

Filing Date :25/07/2018

(87) International Publication No :WO/2019/023401

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

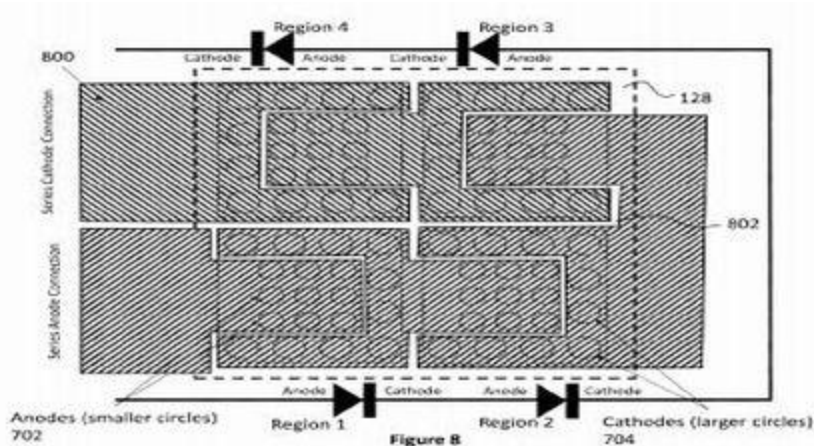
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)CARSON, Richard, F.
2)LI, Nein-Yi
3)WARREN, Mial, E.

(57) Abstract :

Methods, devices and systems are described for enabling a series-connected, single chip vertical-cavity surface-emitting laser (VCSEL) array. In one aspect, the single chip includes one or more non-conductive regions one the conductive layer to produce a plurality of electrically separate conductive regions. Each electrically separate region may have a plurality of VCSEL elements, including an anode region and a cathode region connected in series. The chip is connected to a sub-mount with a metallization pattern, which connects each electrically separate region on the conductive layer in series. In one aspect, the metallization pattern connects the anode region of a first electrically separate region to the cathode region of a second electrically separate region. The metallization pattern may also comprise cuts that maintain electrical separation between the anode and cathode regions on each conductive layer region, and that align with the etched regions.



No. of Pages : 21 No. of Claims : 36

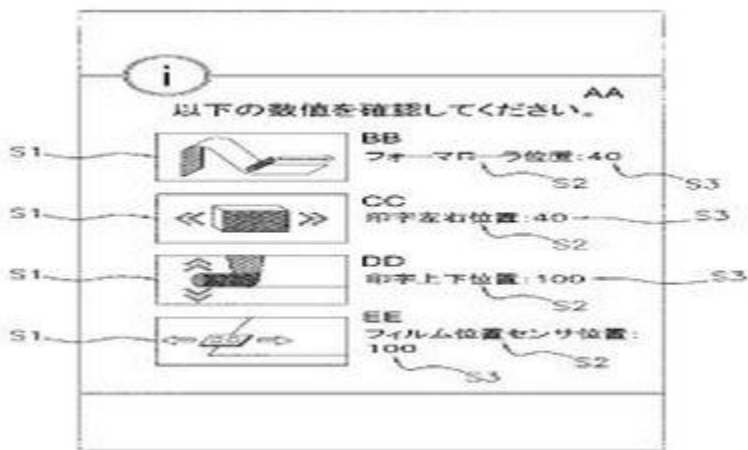
(54) Title of the invention : PRODUCT PROCESSING DEVICE

(51) International classification :B65B 59/00, B65B 57/00, B65B 61/02
 (31) Priority Document No :2017-158211
 (32) Priority Date :18/08/2017
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2018/021851
 Filing Date :07/06/2018
 (87) International Publication No :WO/2019/035265
 (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 :
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2)SATO, Ryoichi
3)KOIKE, Shinji
4)TAKAYAMA, Motoki
5)FURUYA, Naoki

(57) Abstract :

The purpose of the present invention is to provide a product processing device that has a function for preventing a user from forgetting to adjust a location requiring manual adjustment when switching settings. The product processing device (1) is a device for packaging or boxing a product (C) and is provided with a storage unit (71) and a display unit (72). The storage unit stores settings relating to packaging or boxing of the product. When a setting relating to the packaging or the boxing of the product is changed, the display unit displays a required adjustment section in which adjustment is required in the product processing device (1).



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

(54) Title of the invention : DETECTION OF HYDROCARBON CONTAMINATION IN SOIL AND WATER

(51) International classification :G01N 33/18, G01N 33/24, G01N 21/63, G01N 21/64, G01N 21/76

(31) Priority Document No :PCT/EP2017/074876

(32) Priority Date :29/09/2017

(33) Name of priority country :PCT

(86) International Application No :PCT/EP2017/074876
Filing Date :29/09/2017

(87) International Publication No :WO/2019/063100

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

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

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 Germany

(72)Name of Inventor :
1)GOTOR, Ra^ol
2)BELL, Jrmy
3)RURACK, Knut

(57) Abstract :
 A method for the detection of hydrocarbon contamination in a sample is disclosed. The method includes contacting a sample with a molecular probe. The molecular probe has a photoluminescence which is environmentally sensitive. The photoluminescence from the molecular probe is collected. The method includes determining whether the photoluminescence is indicative of a hydrocarbon contaminated sample. A test strip for the detection of hydrocarbon contamination in a sample is also disclosed. The test strip includes a molecular probe embedded in a substrate and/or immobilized to the substrate, the molecular probe having a photoluminescence which is environmentally sensitive to hydrocarbon contaminated sample.

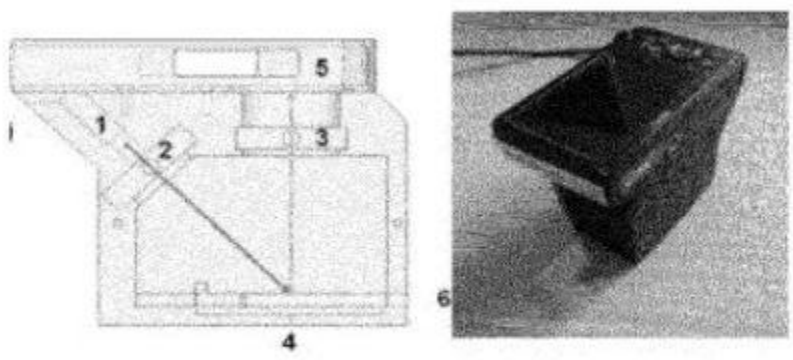


FIG. 11

No. of Pages : 27 No. of Claims : 24

(54) Title of the invention : DETERMINATION OF ADULTERATED DIESEL FUEL USING AN ENVIRONMENTALLY SENSITIVE PHOTOLUMINESCENT MOLECULAR PROBE

(51) International classification	:G01N 33/28, G01N 21/64	(71)Name of Applicant :
(31) Priority Document No	:PCT/EP2017/074885	1)BUNDESREPUBLIK DEUTSCHLAND, VERTRETEN DURCH DIE BUNDESMINISTERIN FR WIRTSCHAFT UND ENERGIE, DIESE VERTRETEN DURCH DEN PR.,SIDENTEN DER BUNDESANSTALT FR MATERIALFORSCHUNG UND -PRFUNG (BAM)
(32) Priority Date	:29/09/2017	Address of Applicant :Unter den Eichen 87 12205 Berlin
(33) Name of priority country	:PCT	Germany
(86) International Application No	:PCT/EP2017/074885	(72)Name of Inventor :
Filing Date	:29/09/2017	1)GOTOR, Ra^{nl}
(87) International Publication No	:WO/2019/063103	2)BELL, Jrmj
(61) Patent of Addition to Application Number	:NA	3)RURACK, Knut
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for detection of an adulterated diesel fuel in a sample is disclosed. The method includes contacting a sample with a molecular probe, the molecular probe having a photoluminescence which is environmentally sensitive; collecting the photoluminescence from the molecular probe; and determining whether the photoluminescence is indicative of adulterated diesel fuel. A test strip for the detection of adulterated diesel fuel in a sample is disclosed, comprising a molecular probe embedded in a substrate and/or immobilized to the substrate, the molecular probe having a photoluminescence which is environmentally sensitive to adulterated diesel fuel. The method and test strips are designed to be robust, portable, and within the capabilities of untrained personnel.

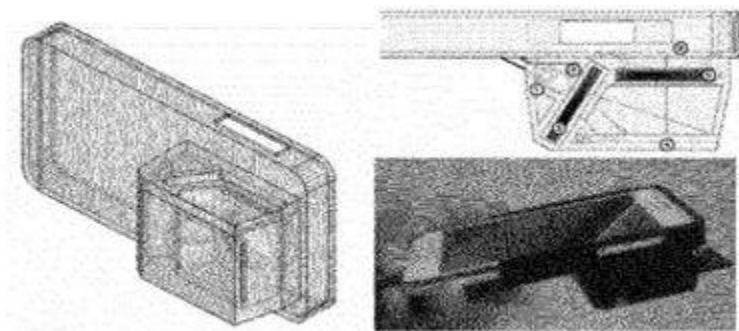


FIG. 9A

No. of Pages : 35 No. of Claims : 29

(54) Title of the invention : DETECTION OF ADULTERATED GASOLINE USING AN ENVIRONMENTALLY SENSITIVE PHOTOLUMINESCENT MOLECULAR PROBE

(51) International classification	:G01N 33/28, G01N 21/64	(71)Name of Applicant :
(31) Priority Document No	:PCT/EP2017/074882	1)BUNDESREPUBLIK DEUTSCHLAND, VERTRETEN DURCH DIE BUNDESMINISTERIN FR WIRTSCHAFT UND ENERGIE, DIESE VERTRETEN DURCH DEN PR.,SIDENTEN DER BUNDESANSTALT FR MATERIALFORSCHUNG UND -PRFUNG (BAM)
(32) Priority Date	:29/09/2017	Address of Applicant :Unter den Eichen 87 12205 Berlin
(33) Name of priority country	:PCT	Germany
(86) International Application No	:PCT/EP2017/074882	(72)Name of Inventor :
Filing Date	:29/09/2017	1)GOTOR, Ra¹
(87) International Publication No	:WO/2019/063102	2)BELL, Jrmly
(61) Patent of Addition to Application Number	:NA	3)RURACK, Knut
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for the detection of adulterated gasoline in a sample is disclosed. The method includes contacting a sample with an immobilized molecular probe, the immobilized molecular probe having a photoluminescence which is environmentally sensitive; collecting the photoluminescence from the immobilized molecular probe; and determining whether the photoluminescence is indicative of adulterated gasoline. A test strip for the detection of adulterated gasoline in a sample is also disclosed, including an immobilized molecular probe embedded in a substrate and/or immobilized to the substrate, the immobilized molecular probe having photoluminescence which is environmentally sensitive to adulterated gasoline. The method and test strips are designed to be robust, portable, and within the capabilities of untrained personnel.

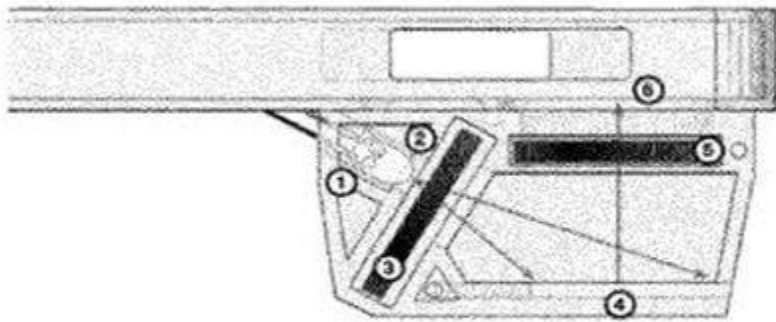


FIG. 6A

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

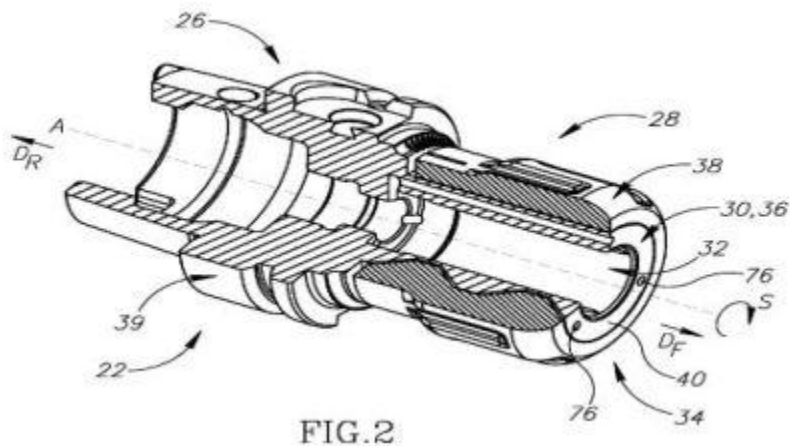
(54) Title of the invention :TOOL HOLDER HAVING CAPTIVE NON-RELEASABLE MEMBERS, METHOD OF MANUFACTURE AND ASSEMBLY OF SAME AND CUTTING TOOL"

(51) International classification :B23B 31/117, B23B 31/20
(31) Priority Document No :15/664537
(32) Priority Date :31/07/2017
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IL2018/050758
Filing Date :11/07/2018
(87) International Publication No :WO/2019/026060
(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 :
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2)FISHER, Raz

(57) Abstract :

A cutting tool includes a tool holding system (12, 122) having a clamping portion (28). The clamping portion (28) includes an integrally formed one-piece inner coupling member (36) that at least partially forms a clamping sleeve portion (30) having a clamping bore (32) for clampingly receiving a cutting insert (24). The clamping portion (28) also includes an integrally formed one-piece outer coupling member (38) that is circumferentially disposed about at least a portion of the inner coupling member (36). The tool holding system (12) also has a mounting portion (26) that is connected to one of the inner and outer coupling members (36; 38). The inner and outer coupling members (36; 38) are captively and non-releasably engaged with each other via inter-engaged first and second engagement surfaces (56, 58) that are slidingly displaceable with respect to each other.



No. of Pages : 16 No. of Claims : 33

(54) Title of the invention :CONTROL SYSTEMS FOR HYDRAULIC AXIAL DISPLACEMENT MACHINES"

(51) International classification :F16D 31/02, F16H 61/433, F04B 49/00, F16H 61/423

(31) Priority Document No :201711029390

(32) Priority Date :18/08/2017

(33) Name of priority country :India

(86) International Application No :PCT/US2018/000157

Filing Date :16/08/2018

(87) International Publication No :WO/2019/035891

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

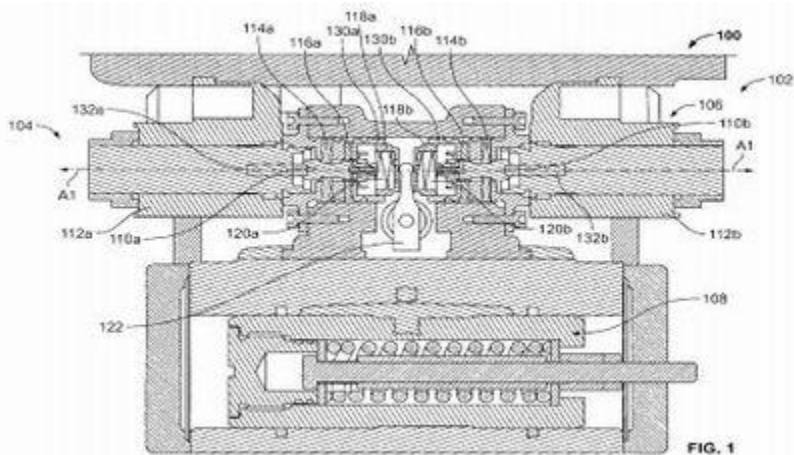
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)LYMAN, Richard, Randel
2)KHARPAS, Anil, Balasaheb
3)PATIL, Avinash, Dadaso
4)MALI, Sanjay, Dhondappa
5)CRESWICK, Matthew, Edward

(57) Abstract :

Control systems and feedback assemblies for hydraulic axial displacement machines, such as pumps and motors. The control systems and feedback assemblies can reduce friction on the charging spools and provide for a more reliable return of the swashplate to a neutral position. Aspects of the control systems and feedback assemblies can be modularized for, e.g., easy maintenance and to reduce the overall size of the system.



No. of Pages : 14 No. of Claims : 24

(54) Title of the invention :PROCESS TO FORM A TILE USING LOW TEMPERATURE HEAT LAMINATION"

(51) International classification	:B32B 37/06, B32B 33/00, B32B 27/32
(31) Priority Document No	:62/546178
(32) Priority Date	:16/08/2017
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2018/000175
Filing Date	:16/08/2018
(87) International Publication No	:WO/2019/035907
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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U.S.A.

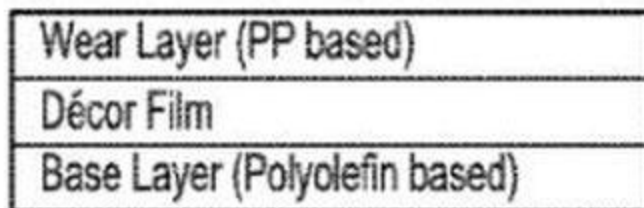
(72)Name of Inventor :

1)HU, Yushan**2)WEEKS, Ronald, J.****3)JABLONKA, Mark, T.****4)LIU, Lizhi**

(57) Abstract :

A method to produce a tile comprising at least the following layered sections: a wear layered section, a decor layered section and a base layered section; and wherein the wear layered section comprises the following: A) a compositional layer A formed from a composition A comprising at least one olefin-based polymer; wherein the decor layered section comprises the following: B1) a compositional layer B1 formed from a composition B1 comprising a propylene-based polymer; B2) a compositional layer B2 formed from a composition B2 comprising an olefin-based polymer; wherein the base layered section comprises the following: C) a compositional layer C formed from a composition C comprising an olefin-based polymer; wherein the method comprises the following step(s): i) heat laminating compositional layer A to compositional layer B1, at a temperature $T1 \leq 140^{\circ}\text{C}$; and wherein, for a continuous production of the tile, T1 is the temperature at the surface of the compositional layer with the highest, or equivalent, surface temperature; and for a batch production of the tile, T1 is the interfacial temperature between the two compositional layers; ii) heat laminating compositional layer B2 to compositional layer C, at an interfacial temperature $T2 \leq 140^{\circ}\text{C}$; and wherein, for a continuous production of the tile, T2 is the temperature at the surface of the compositional layer with the highest, or equivalent, surface temperature; and for a batch production of the tile, T2 is the interfacial temperature between the two compositional layers.

FIG. 1



No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017007795 A

(19) INDIA

(22) Date of filing of Application :24/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention :PRESSURE SENSITIVE ADHESIVE COMPOSITIONS AND METHODS OF MAKING SAME"

(51) International classification :C09J 7/38
(31) Priority Document No :62/546073
(32) Priority Date :16/08/2017
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2018/040034
Filing Date :28/06/2018
(87) International Publication No :WO/2019/036121
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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U.S.A.
2)ROHM AND HAAS COMPANY
(72)Name of Inventor :
1)BINDER, Joseph B.
2)PUJARI, Saswati
3)NECOLA, Hany

(57) Abstract :

Pressure sensitive adhesive compositions are disclosed comprising acrylic emulsions that are emulsion polymerization products of (a) a monomer mixture comprising, based on the total weight of monomers in the monomer mixture, from 50 to 99 weight percent 2-ethylhexyl acrylate and from 1 to 50 weight percent an unsaturated monomer, (b) a surfactant, and (c) an initiator. Methods for preparing pressure sensitive adhesive compositions are also disclosed. Food contact articles comprising the disclosed pressure sensitive adhesive compositions are also disclosed. In some embodiments, the disclosed food contact articles have an overall migration of less than 25 mg/dm², as measured in accordance with EN 1186, or less than 10 mg/dm², as measured in accordance with EN 1186.

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

(54) Title of the invention :RADIO FREQUENCY CIRCUIT AND ELECTRONIC DEVICE"

(51) International classification :H04B 1/00
(31) Priority Document No :201710614395.8
(32) Priority Date :25/07/2017
(33) Name of priority country :China
(86) International Application No :PCT/CN2018/089954
Filing Date :05/06/2018
(87) International Publication No :WO/2019/019809
(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)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
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(72)Name of Inventor :
1)CONG, Ming
2)FENG, Bin

(57) Abstract :

Disclosed is a radio frequency circuit. The radio frequency circuit comprises a first switch, a second switch, a third switch, a first phaser module, a second phaser module, and a combiner. The first switch and the second switch can control a high-frequency signal and an intermediate-frequency signal to implement carrier aggregation to obtain a first aggregation signal, and the combiner performs carrier aggregation on the first aggregation signal and a low-frequency signal. The present application further provides an antenna apparatus and an electronic device.

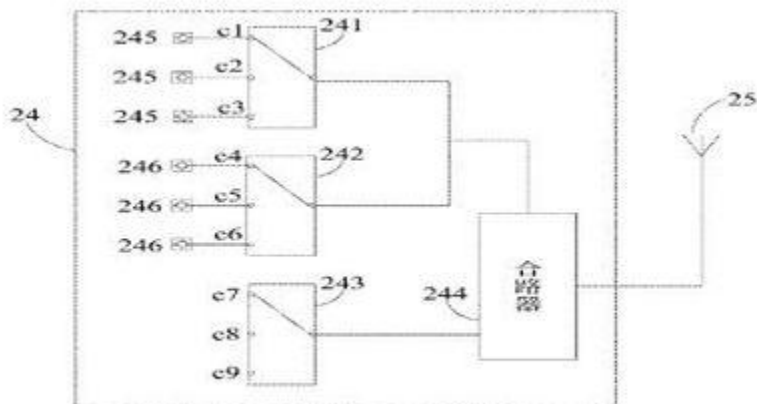


图 5

No. of Pages : 26 No. of Claims : 13

(54) Title of the invention :DIESEL AND CYCLE OIL UPGRADING PROCESS"

(51) International classification :C10G 65/12, C10G 69/04, C10G 7/00, C10G 25/00, C07C 4/06

(31) Priority Document No :62/549643

(32) Priority Date :24/08/2017

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2018/047530

Filing Date :22/08/2018

(87) International Publication No :WO/2019/040627

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

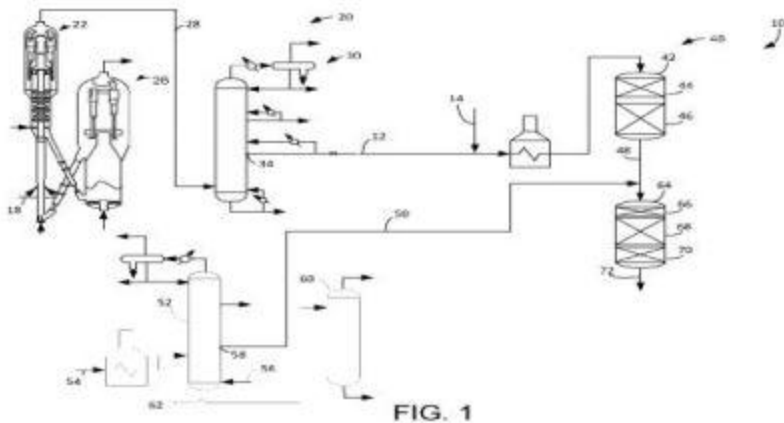
Filing Date :NA

(71)Name of Applicant :
1)UOP LLC
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 Des Plaines, Illinois 60017-5017 U.S.A.

(72)Name of Inventor :
1)RONEY, Scott M

(57) Abstract :

A process is for hydrocracking a dealkylated aromatic stream in the presence of a hydrogen stream and a hydrocracking catalyst to provide a hydrocracked stream and hydrotreating a diesel stream and the hydrocracked stream together over a hydrotreating catalyst to provide a hydrotreated diesel stream. The two streams are processed together without cracking the valuable diesel boiling hydrocarbons to below the diesel range and also upgrading the cetane value of the dealkylated aromatic stream.



No. of Pages : 15 No. of Claims : 10

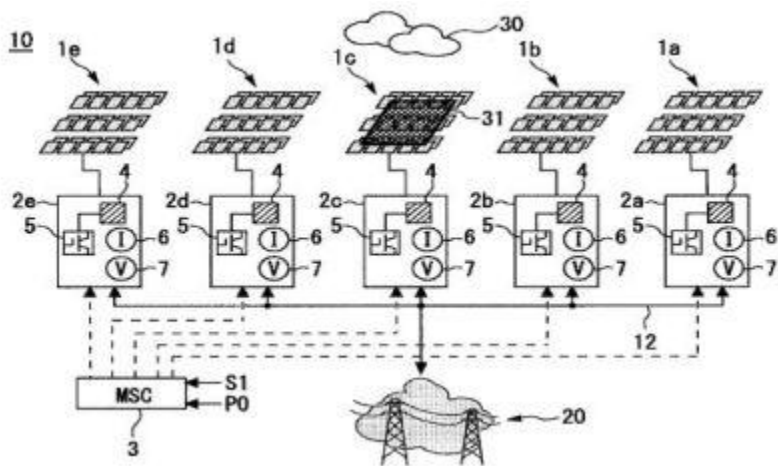
(54) Title of the invention : SOLAR PHOTOVOLTAIC POWER GENERATION SYSTEM AND SOLAR PHOTOVOLTAIC POWER GENERATION METHOD

(51) International classification :H02M 7/48, H02J 3/38, H02M 7/493
 (31) Priority Document No :NA
 (32) Priority Date :NA
 (33) Name of priority country :NA
 (86) International Application No :PCT/JP2017/033742
 Filing Date :19/09/2017
 (87) International Publication No :WO/2019/058428
 (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)TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
 Address of Applicant :3-1-1, Kyobashi, Chuo-ku, Tokyo 1040031 Japan
 (72)Name of Inventor :
1)FUJIWARA, Naoki

(57) Abstract :

This solar photovoltaic power generation system is provided with a plurality of solar cell arrays, a plurality of power conditioners connected respectively to the plurality of solar cell arrays, and a higher-level device connected to the plurality of power conditioners. The higher-level device is constructed so as to execute, by overlapping chronologically, first output control in which output power output by a designated power conditioner is adjusted to a predetermined prescribed output power, and second control in which the output power of the remaining power conditioners is adjusted so that the equivalent of the change in the quantity of power generated by the designated power conditioner due to adjustment of the output power of the designated power conditioner to the prescribed output power is borne by the remaining power conditioners. The higher-level device is constructed so as to execute characteristic data acquisition, in which the input power electrical characteristics of the designated power conditioner during execution of the first output control are acquired.



No. of Pages : 42 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017007812 A

(19) INDIA

(22) Date of filing of Application :24/02/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROCESS AND INTERMEDIATE FOR THE MANUFACTURE OF DIFLUOROACETYL CHLORIDE

(51) International classification	:C07C 41/22, C07C 43/12, C07C 43/192, C07C 43/225, C07C 51/58	(71)Name of Applicant : 1)SOLVAY SA Address of Applicant :Rue de Ransbeek, 310 1120 Bruxelles Belgium
(31) Priority Document No	:17189146.8	(72)Name of Inventor :
(32) Priority Date	:04/09/2017	1)SCHMITT, Etienne
(33) Name of priority country	:EPO	2)JAUNZEMS, Janis
(86) International Application No	:PCT/EP2018/073670	
Filing Date	:04/09/2018	
(87) International Publication No	:WO/2019/043238	
(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 concerns a process and intermediates for the manufacture of difluoro acetyl chloride. The invention further concerns a process for the manufacture of an agrochemically or pharmaceutically active compound, which comprises the process and intermediate for the manufacture of difluoro acetyl chloride for the manufacture of difluoro acetyl chloride or its intermediate.

No. of Pages : 17 No. of Claims : 15

(54) Title of the invention : COOLING DEVICE AND COOLING METHOD

(51) International classification :H05K 7/20, H01L 23/34, H01L 23/427, H01L 23/467

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/JP2017/033972

Filing Date :20/09/2017

(87) International Publication No :WO/2019/058466

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

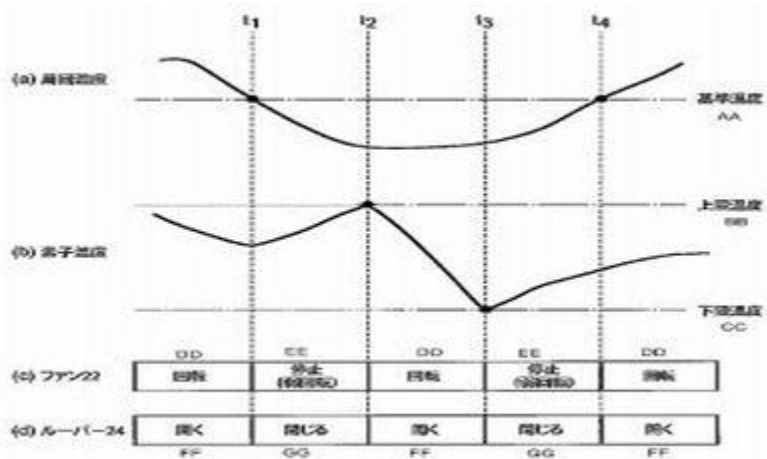
Filing Date :NA

(71)Name of Applicant :
1)TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
 Address of Applicant :3-1-1 Kyobashi, Chuo-ku, Tokyo 1040031 Japan

(72)Name of Inventor :
1)TAWADA, Yoshihiro
2)TAKAHASHI, Nobuhiro

(57) Abstract :

This cooling device is provided with: a heat pipe (56) that is connected to a semiconductor chip (12); a fan (22) that cools a heat radiation part of the heat pipe; a temperature sensor (18) that measures the temperature around the device; and a control unit (32) that controls the fan (22). The control unit (32) causes the fan (22) to rotate at a normal rotational speed when the temperature measured by the temperature sensor (18) is higher than a reference temperature, and causes the fan (22) to stop rotating or rotate at a rotational speed equal to or lower than the normal rotational speed when the temperature measured by the temperature sensor (18) is not higher than the reference temperature.



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

(54) Title of the invention : SENSOR

(51) International classification :G01N 33/68, C07K 14/00
 (31) Priority Document No :1714478.3
 (32) Priority Date :08/09/2017
 (33) Name of priority country :U.K.
 (86) International Application No :PCT/GB2018/052521
 Filing Date :06/09/2018
 (87) International Publication No :WO/2019/048859
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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1)WOOLFSON, Derek Neil
2)DAWSON, William Michael
3)RHYS, Guto Glyn
4)SCOTT, David Arne
5)FLETCHER, Jordan Michael
6)WOOD, Christopher Robin Wells

(57) Abstract :

A sensor array comprising at least two sensors, wherein each sensor comprises a protein barrel and a reporter dye; wherein the protein barrel defines a lumen; the reporter dye is bound to the lumen reversibly; and wherein the protein barrel is different in structure in the at least two sensors.

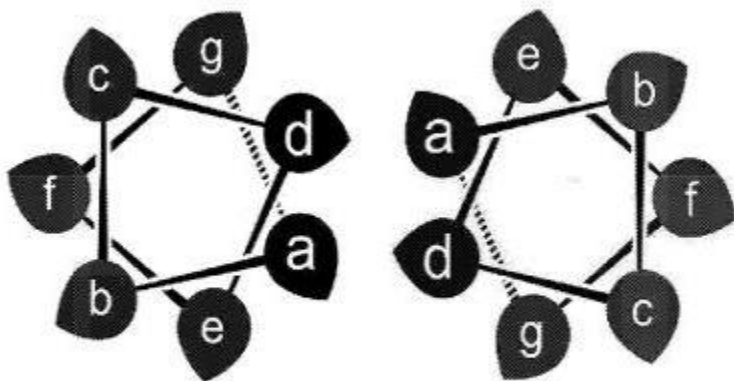


FIG. 1

No. of Pages : 36 No. of Claims : 20

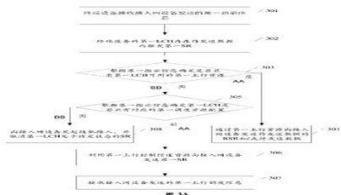
(54) Title of the invention : SCHEDULING REQUEST TRANSMITTING METHOD, SCHEDULING REQUEST PROCESSING METHOD AND RELATED DEVICE

(51) International classification :H04W 72/12
 (31) Priority Document No :201710689761.6
 (32) Priority Date :11/08/2017
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2018/099209
 Filing Date :07/08/2018
 (87) International Publication No :WO/2019/029538
 (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)XU, Bin
3)CAO, Zhenzhen
4)XIAO, Xiao
5)XIONG, Xin
6)WANG, Xuelong

(57) Abstract :

Disclosed in the embodiments of the present invention are a scheduling request transmitting method, a scheduling request processing method and a related device, wherein the scheduling request transmitting method comprises: determining, according to first indication information, whether there is a first scheduling resource configuration corresponding to a first logical channel of a terminal device if a first scheduling request (SR) is triggered due to the existence of data to be transmitted in the first logical channel, the first indication information comprising a first mapping relationship used to indicate a correspondence relationship between the logical channel of the terminal device and a scheduling resource configuration, and the first scheduling resource configuration comprising a first uplink control channel resource corresponding to the first logical channel; and transmitting the first SR to an access network device by means of the first uplink control channel resource if the first logical channel has a corresponding first scheduling resource configuration. By employing the embodiments of the present invention, a scheduling request may be transmitted to an access network device on the basis of a logical channel, so that the access network device may reasonably allocate uplink resources to the logical channel according to the service type of the logical channel.



No. of Pages : 33 No. of Claims : 33

(54) Title of the invention : CORN PEELING MACHINE

(51) International classification	:A01F0011060000, C14B0001020000, F16C0013000000, B29C0063000000, B26D0003280000	(71)Name of Applicant : 1)Ravindra D Kharadkar Address of Applicant :G.H. Rasoni Institute of Engineering and Technology 1200 Domkhel Road Wagholi Pune Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Arun Mahadeorao Thakare
(33) Name of priority country	:NA	2)DR. KHARADKAR RAVINDRA DIGAMBAR
(86) International Application No	:NA	3)Dheeraj Shaha
Filing Date	:NA	4)Pandurang Pawar
(87) International Publication No	: NA	5)Nilesh Pawar
(61) Patent of Addition to Application Number	:NA	6)Chhaya Bade
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In India corn is the third most important food crop after rice and wheat. Corn is the major product for producing the starch, ethanol, glue, oil, alcohol, penicillin, plastic, batteries, protein, food sweeteners, cosmetics, textiles etc. In India maize is grown in all seasons i.e. kharif, rabbi and summer. After harvesting with sickle and plucking of cob manually, de-husking of cob is done by hand to remove its outer sheath. Corn peeling machine is used in industries for mass production. It reduces the human efforts and reduces the time required for removing the corn cover. Corn peeling machine consists of two rollers, one is metal roller (also called as conveyer roller) other is rubber roller which are moving in opposite directions. Corn peeling machine can strip the skin of corn. The rubber roller is made by fitting series of slotted UHMWPE (Ultra high molecular weight polyethylene) strips on cylindrical metal surface The metal rod is wound spirally on the surface of metal roller to form conveyer. Corn peeling machine remove corn cover by friction between rubber roller and conveyer. The main aim of this machine is to provide better, cost effective solution for removing corn cover.

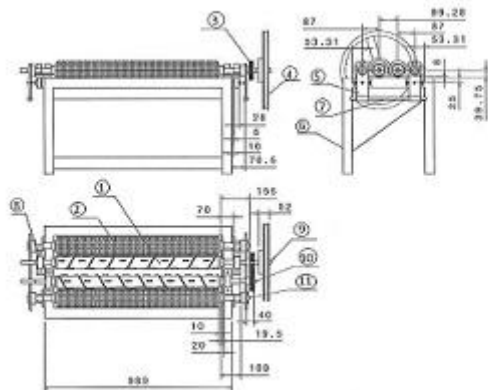


FIG. 1

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

(54) Title of the invention : AN APPARATUS TO SETUP FURNITURE AND ENVIRONMENTAL PARAMETERS/FACTORS BASED ON BODY ATTRIBUTES

(51) International classification	:A61B0005000000, A61B0005010000, A61B0005020500, G08B0021100000, G06Q0010080000	(71)Name of Applicant : 1)Godrej and Boyce Mfg. Co. Ltd. Address of Applicant :Pirojshanagar, Vikhroli, Mumbai-400079, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Arun G Krishnan
(32) Priority Date	:NA	2)Munish Sikka
(33) Name of priority country	:NA	3)Hemmant Jha
(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 :

ABSTRACT AN APPARATUS TO SETUP FURNITURE AND ENVIRONMENTAL PARAMETERS/FACTORS BASED ON BODY ATTRIBUTES An apparatus for providing comfortable environment to a person is disclosed. The apparatus comprises a sensor pad that includes a plurality of sensors; a display interface configured to display data obtained by the plurality of sensors; a communication interface configured to communicate with a server; at least one processor; and a memory operatively coupled with the processor. The plurality of sensors are configured to obtain physical attributes of the person. The obtained physical attributes are stored in one of the memory or the server. The apparatus is configured to adjust a set of dimensions of the furniture based on the physical attributes of the user. [Figure: 2]



No. of Pages : 14 No. of Claims : 12

(54) Title of the invention : HIGHLY PROCESSABLE SILICA TREAD WITH ENHANCED PRODUCT PERFORMANCE

(51) International classification	:H04N0019105000, G06K0015020000, A61Q0005120000, C12N0015520000, A61Q0017040000	(71)Name of Applicant : 1)CEAT LIMITED Address of Applicant :RPG House, 463, Dr. Annie Besant Road, Worli, Mumbai €“ 400 030, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DEY Pranab
(33) Name of priority country	:NA	2)GILBERT Rupesh
(86) International Application No	:NA	3)Nair Sujith Sasidharan
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 rubber composition comprising a rubber component, thermoplastic resin, reinforcing agent, silica and silane. The present invention also relates to simple process with less number of steps for preparation of rubber composition for tire. FIG. 1

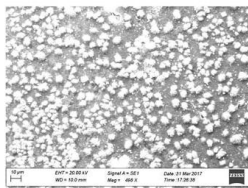


Fig. 1

No. of Pages : 21 No. of Claims : 13

(54) Title of the invention : HUMAN CUM SOLAR POWERED WATER FILTRATION SYSTEM

<p>(51) International classification :C02F0001000000, B62K0003000000, F02B0067060000, F16H0009180000, C02F0001440000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)Aakash Jain Address of Applicant :Kusum Kunj, Mangilal Plot, Camp Road, Amravati -444602 Maharashtra India 2)Yash Shukla 3)Zain Daud 4)Vedant Maheshwari 5)Nikunj Chandak 6)Bhushan Bissa</p> <p>(72)Name of Inventor : 1)Aakash Jain 2)Yash Shukla 3)Zain Daud 4)Vedant Maheshwari 5)Nikunj Chandak 6)Bhushan Bissa</p>
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(57) Abstract :

A human cum solar powered water filtration system includes a human-powered drive mechanism that includes a human powered vehicle having a rear wheel coupled to a first wheel having a size smaller than that of the rear wheel, a first pulley coupled to the first wheel, a second pulley coupled to the first pulley through a belt, a third pulley coupled to the second pulley through a shaft, a pump pulley coupled to the third pulley through another belt, a centrifugal pump driven by the pump pulley of the human-powered drive mechanism for pumping water from a tank into a reservoir disposed at a predefined height, a pre-sediment filter for performing a preliminary filtration of the water stored in the reservoir, and a solar powered water filtration system for performing a secondary filtration of the water stored in the reservoir.

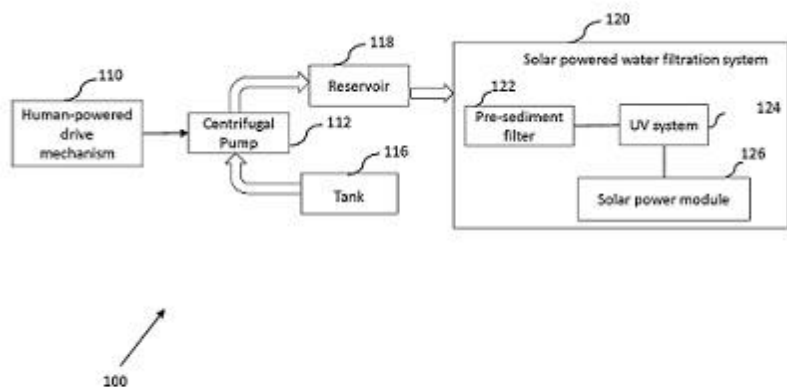


FIG.1

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

(54) Title of the invention : SERVICE DEVICE FOR USE DURING MAINTENANCE OF ELECTRICAL SWITCHGEARS INSULATED USING A MULTI COMPONENT INSULATING GAS

(51) International classification :F17C 5/06, F17C 7/00, H01H 33/56, H02B 3/00, H02B 13/055

(31) Priority Document No :10 2015 108 748.0

(32) Priority Date :02/06/2015

(33) Name of priority country :Germany

(86) International Application No :PCT/EP2016/062309

Filing Date :31/05/2016

(87) International Publication No :WO 2016/193272

(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)FIRMA DILO ARMATUREN UND ANLAGEN GMBH

Address of Applicant :Frundsbergstrasse 36 87727

Babenhausen Germany

(72)Name of Inventor :

1)SIEBER Peter

2)KOHLER Robert

3)GESTLE Mathias

(57) Abstract :

The invention relates to a service device for a multi component insulating gas in particular for use during maintenance of electrical switchgears with a system space comprising a compressor (3) with a downstream condenser (32) a storage container (6) wherein the service device is or can be connected to a system space (1) and the compressor (3) compresses the insulating gas during the removal thereof from the system space (1) wherein all components of the insulating gas remain in the compressor (3) in a gaseous state and the condenser (32) is controlled by a controller (8) such that a condensation of the insulating gas preferably occurs first in the storage container (6) and a storage heating device (61) is provided for the storage container (6) and during filling of the system space (1) the storage heating device (61) heats the insulating gas to a temperature above the critical temperature of all components of the insulating gas wherein in particular a line heating device (90) is provided which at least partially heats the pipeline between the storage container (6) and the system space (1) and/or heats elements in the pipeline such as for example filter housings or similar.

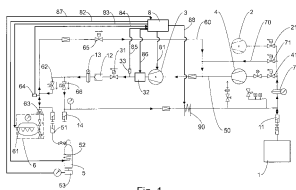


Fig. 1

No. of Pages : 33 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821000757 A

(19) INDIA

(22) Date of filing of Application :08/01/2018

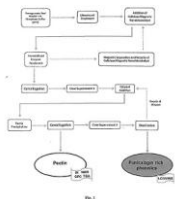
(43) Publication Date : 26/06/2020

(54) Title of the invention : IMMOBILIZED ENZYME MEDIATED PROCESS FOR RECOVERY OF PECTIN AND PUNICALAGIN RICH POLYPHENOLS FROM WASTE POMEGRANATE PEELS

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71)Name of Applicant : 1)IITB - Monash Research Academy Address of Applicant :IIT Bombay, Powai, Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sachin Talekar
(32) Priority Date	:NA	2)Amit Arora
(33) Name of priority country	:NA	3)Antonio Patti
(86) International Application No	:NA	4)Vijayaraghavan Ranganathan
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 :

ABSTRACT: A novel process for simultaneous recovery of pectin and punicalagin rich polyphenols from waste pomegranate peels using reusable cellulase immobilizes onto magnetic nanoparticles (cellulase nanobiocatalyst). The pectin and punicalagin rich polyphenols were simultaneously extracted by ultrasound pretreatment of the waste pomegranate peels with subsequent treatment of cellulase nanobiocatalyst at low temperature and near neutral pH. Furthermore, cellulase nanobiocatalyst utilized during extraction was recovered by magnetic field and re-used for five extraction cycles without compromising on the yield and quality of successive pectin and punicalagin rich polyphenols.



No. of Pages : 26 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821000760 A

(19) INDIA

(22) Date of filing of Application :08/01/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : FORMULATION FOR TREATMENT OF PERIANAL WOUNDS AND PROCESS OF PREPARATION THEREOF

(51) International classification	:A61K0009000000, A61K0009080000, A61K0009120000, A61K0047100000, A61K0031045000	(71) Name of Applicant : 1)Dr. Ashwin Porwal Address of Applicant :Mangalmurti Complex, 105,First floor, Near Hirabaug, Tilak Road, Pune €“ 411002 MS, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Ashwin Porwal
(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 :

Formulation for Treatment of Perianal Wounds and Process of Preparation Thereof Abstract Disclosed is a formulation for treatment of perianal wounds and a process of preparation thereof. The formulation comprises daruharidra, lodh, mochras, teal tail, kokam tail, kapur and menthol. The formulation is used in the form of aerosol/spray. The aerosol/spray formulation is hygienic to use and gives better applicability and compliance. The formulation of the present invention provides quick relief from the pain arising out of the perianal wound. The formulation of the present invention is safe and superior to Betadine Solution in perianal wound healing.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : STEAM TRAPS

(51) International classification	:F16T0001480000, F16T0001020000, F16T0001380000, F22B0001280000, D21F0005100000	(71) Name of Applicant : 1)Steam Equipments Pvt. Ltd. Address of Applicant :Plot No €“ 44, Tiny Industrial Estate, Kondhwa Budruk, Pune €“ 411048, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dilip Magar
(33) Name of priority country	:NA	2)Sunil Kulkarni
(86) International Application No	:NA	3)Narpendra 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 :

Disclosed is a steam trap apparatus (100). The steam trap apparatus (100) comprises least one hollow housing (10) having an inlet means (14) for condensate with steam, an outlet means for condensate and at least one window configured thereon. The steam trap apparatus (100) further comprises at least one means for filtration configured within the inlet means, and at least one means for viewing configured on the window of the hollow housing. The steam trap apparatus (100) furthermore comprises at least one float mechanism configured within the housing. The steam trap apparatus (100) allows escaping the condensate through the outlet means upon collection of predetermined condensate in the hollow housing Figure 1

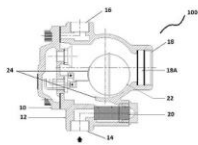


Figure 1

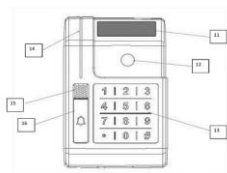
No. of Pages : 11 No. of Claims : 6

(54) Title of the invention : SECURITY SYSTEM

(51) International classification	:H04N0007180000, G07C0009000000, G08B0025080000, H04M0001020000, E05B0047000000	(71)Name of Applicant : 1)VAIBHAV DASHRATHBHAI PATEL Address of Applicant :2-MAHASHAKTI SOCIETY, RAM TALAVDI, MISSION ROAD, BEHIND JILLA PANCHAYAT QUATARS, NADIAD-387002, GUJARAT, INDIA Gujarat India 2)NANDAN KIRANBHAI SHAH
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)NANDAN KIRANBHAI SHAH
(33) Name of priority country	:NA	2)VAIBHAV DASHRATHBHAI PATEL
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is a smart door lock system enabled with digital security system. The system comprises of multiple units. It comprises of LED unit (11) which displays the name of users and other accessing details, camera unit (12), keypad with backlight (13) wherein the light will glow from backside of keypad when it is ON condition, LED light guide (14) to show whether system is ON/OFF, spacing for speaker and mike (15), which is useful for two way communication and door bell button (16). The door lock system comprises of 360 degree VR [virtual reality] camera connected and controlled by mobile device so that one can see remotely who is coming in or going out and what is happening nearby to the door place where this unit is fixed and control the access as per requirement.



[Figure-1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821001560 A

(19) INDIA

(22) Date of filing of Application :13/01/2018

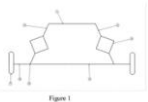
(43) Publication Date : 26/06/2020

(54) Title of the invention : PERFECT STEERING MECHANISM USING PANTOGRAPH

(51) International classification	:C23C0014060000, B62D0003000000, B62D0003080000, B62D0003120000, B62D0005060000	(71)Name of Applicant : 1)Government College of Engineering Amravati Address of Applicant :Kathora Square, Siddhivinayak Nagar, Amravati, Maharashtra 444604 Maharashtra India
(31) Priority Document No	:NA	2)Harshal Yashwant Patil
(32) Priority Date	:NA	3)Monika Shankarao Satpute
(33) Name of priority country	:NA	4)Abhijeet Ravindra Sarkar
(86) International Application No	:NA	5)Vaibhav Anil Wanode
Filing Date	:NA	6)Ashish Shankar Yedlawar
(87) International Publication No	: NA	7)Gaurav Laxmanrao Uike
(61) Patent of Addition to Application Number	:NA	8)Lalit Himmatrao Meshram
Filing Date	:NA	9)Mahesh Kailash Wagh
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Harshal Yashwant Patil

(57) Abstract :

Present invention provides a perfect steering mechanism using pantograph. PSMuP is such a steering gear which fulfils fundamental equations of gearing in all positions and still uses the turning pair so the wear is also less. For this it replaces al ink by a pantograph linkage. So this becomes a very suitable steering gear to be used in automobile steering system in industry. Following invention is described in detail with the help of Figure 1 of sheet 1 showing drawing of PSMuP Mechanism, Figure 6 of sheet 3 showing PSMuP Mechanism Construction, Figure 7 of sheet 4 showing PSMuP Mechanism Theoretical proof and Figure 8 of sheet 4 showing PSMuP Mechanism Construction.



No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : METHOD AND SYSTEM FOR ANALYZING METABOLIC STATE OF A CELL BY MEASURING CONCENTRATIONS OF METABOLITES

(51) International classification :C12M0001340000,
G01N0033500000,
G01N0015000000,
G01N0033680000,
G01R0033465000

(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)Tata Consultancy Services Limited

Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai 400021, Maharashtra, India Maharashtra India

(72)Name of Inventor :

1)MANDE, Sharmila Shekhar

2)SHANKAR, Arvind J

3)BOSE, Tungadri

4)DUTTA, Anirban

(57) Abstract :

Analysis of the flow of fluxes through the metabolic network of a cell type is useful in gaining knowledge about cellular physiology. Such knowledge can be used in understanding hostTMs interactions with pathogens, drug response etc. However there is dearth of techniques that can incorporate metabolomics data into genome scale metabolic model (GEM) for FBA. A method and system for analyzing metabolic state of a cell at a genome scale by measuring concentrations of a one or more metabolites has been disclosed. The method is utilizing intracellular and/or extracellular metabolite concentrations for constraining reaction fluxes in FBA by incorporating it as part of stoichiometric constraint to metabolic model. The method is used to predict the change in flux flow through all reactions in an organism/ cell type under different experimental conditions. The method enables constraining the flow of fluxes through reactions while performing FBA of GEMs using measured metabolite concentrations.

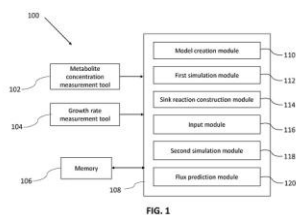


FIG. 1

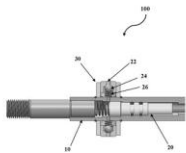
No. of Pages : 31 No. of Claims : 11

(54) Title of the invention : ADJUSTABLE DAMPING SHOCK ABSORBER

(51) International classification	:F16F0009460000, B60G0017080000, B60G0017015000, B62K0025080000, F16F0009340000	(71) Name of Applicant : 1)Gabriel India Limited Address of Applicant :29th Milestone, Pune Nasik Highway, Village: Kuruli, Tal: Khed, Dist: Pune - 410 501, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Rajendra Abhange
(33) Name of priority country	:NA	2)Raghavendra S.
(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 :

ADJUSTABLE DAMPING SHOCK ABSORBER Present invention relates to shock absorbers in vehicles and more particularly, to an adjustable damping shock absorber with low velocity control. The shock absorber (100) comprises of a piston rod (10) of a piston arranged inside an inner tube, a spool (20) incorporated within the piston rod (10) and a non-return valve (30) that are operably connected operably connected with the piston rod (10) inside the inner tube. The non-return valve (30) comprises an orifice (22) for allowing oil flow there through and a ball (24) and spring (26) arrangement. The ball (24) closes and opens depending on pressure of the spring (26) and pressure inside the inner tube for adjusting damping force. The mechanism of the non-return valve (30) provides better ride handling at all velocities for sport and comfort modes of damping adjustment. Figure 1



No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMIC IDENTIFICATION OF ROGUE APPLICATION USING TIME STAMPING TECHNIQUES

	:H04W0024080000, H05B0037020000, G06F0016245000, A61B0005110000, H04W0004800000
(51) International classification	
(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)Tata Consultancy Services Limited
 Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai 400021, Maharashtra, India Maharashtra India

(72)**Name of Inventor :**
1)SEBASTIAN, Thomas Lee

(57) Abstract :

This disclosure relates to a system and method for providing dynamic identification of rogue container application using time stamping techniques. Moreover, the system continuously monitors resources or infrastructure to collect the usage information or data of various activities such as Central Processing Unit usage, Random access memory usage, and so on. The collected information is time stamped. Further, the time stamped information is analyzed to identify the existence of any pattern. Presence of a typical pattern may be indicative of presence of rouge application, while randomness or no pattern may be indicative of presence of a genuine application. However, if the application is identified as genuine application it is further monitored for longer duration. The monitoring for longer duration enables detection of presence of any long-term pattern, which can then be identified as rouge application else can be confirmed to be the genuine application requiring additional system resources.

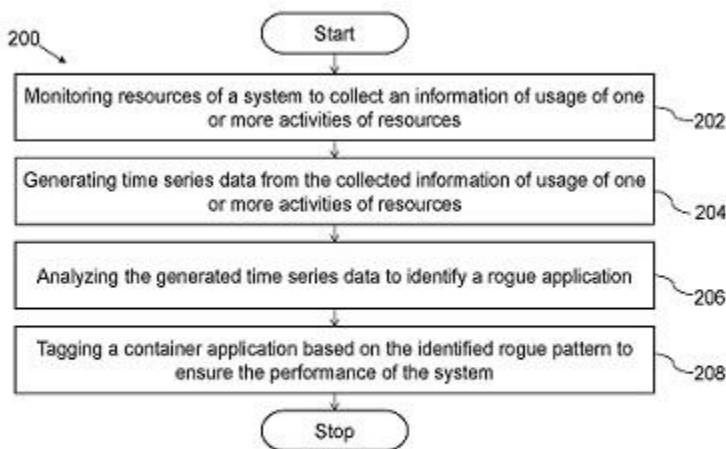


FIG. 2

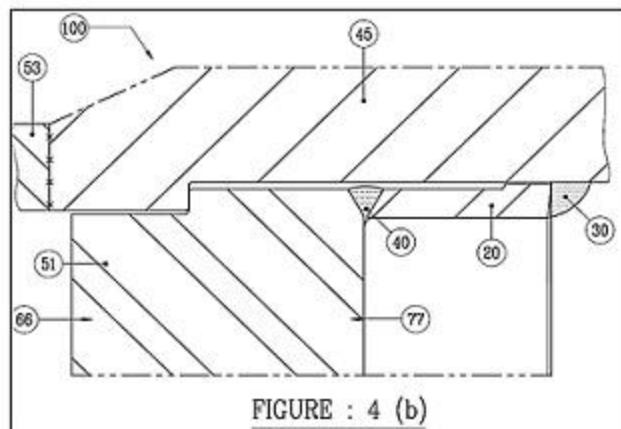
(54) Title of the invention : TUBESHEET ATTACHMENT IN HIGH PRESSURE HEAT EXCHANGER AND METHOD OF CONSTRUCTION THEREOF

(51) International classification	:F28F0009020000, F28D0007160000, F28F0009180000, F28D0021000000, F28D0001020000	(71)Name of Applicant : 1)Larsen and Toubro Limited, Address of Applicant :Larsen and Toubro Limited, L&T House, Ballard Estate, P. O. Box: 278, Mumbai- 400 001, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Anil Kumar Modi
(33) Name of priority country	:NA	2)DP Arora
(86) International Application No	:NA	3)Vishvajeet K Joshi
Filing Date	:NA	4)Pratik Doshi
(87) 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 :

TUBESHEET ATTACHMENT IN HIGH PRESSURE HEAT EXCHANGER AND METHOD OF CONSTRUCTION THEREOF

Present invention relates to heat exchangers and more specifically, to a tubesheet (51) attachment in high pressure screw plug or breech lock heat exchanger (100) used in refinery and other applications of process plant equipment. A method of construction of the tubesheet (51) comprises forming a first weld between a skirt shell (20) and a channel header (45) and a second weld (40) between the tubesheet (51) and the skirt shell (20) which depends upon the design configurations of the skirt shell (20). While attaching the tubesheet (51) with an expansion bellows (50) and internal apparatuses, a stub (55) is welded to the expansion bellows that is welded to the tubesheet (51) at one end and to the channel header (45) at other end. The method eliminates external gasketed joint, intermixing of fluids and permits removal of a tube bundle for maintenance or cleaning. Figure 4b



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821011414 A

(19) INDIA

(22) Date of filing of Application :27/03/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : PREPARATION OF 2,6-DICHLORO-PARA-TRIFLUOROMETHYLANILINE

(51) International classification	:C01G0009020000, H01L0033000000, C07C0041260000, A23G0001560000, C30B0025100000	(71) Name of Applicant : 1)GUJARAT FLUOROCHEMICALS LIMITED Address of Applicant :Survey No.16/3, 26, 27, Ranjitnagar, Taluka Ghoghamba, Dist: Panchamahar Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NIKAM, Laxmikant Babanrao
(33) Name of priority country	:NA	2)MESHRAM, Vikin Rajabhau
(86) International Application No	:NA	3)GAITONDE, Shrikant Balkrishna
Filing Date	:NA	4)SOGANI, Sanjeev
(87) 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 two-step process for the preparation of 2,6-dichloro-para-trifluoromethylaniline with reduced reaction time. The process comprising the following two steps: Preparation of an intermediate 4-trifluoromethylaniline from 4-chlorobenzotrifluoride using ammonia and sulfolane at temperature in the range of 130-135°C, isolation of 4-trifluoromethylaniline formed without any oligomeric impurities in step one and preparation of 2,6-dichloro-para-trifluoromethylaniline from 4-trifluoromethylaniline using dihalogen and catalyst at temperature in the range of 80-85°C.

No. of Pages : 15 No. of Claims : 14

(54) Title of the invention : PRAGATI PUSTAK-A PARENT ORIENTED SCREENING TOOL FOR IDENTIFICATION OF DEVELOPMENTAL DELAY IN CHILDREN TILL 2 YEARS OF AGE

(51) International classification	:C07K 14/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. SUVARNA SHYAM GANVIR
(32) Priority Date	:NA	Address of Applicant :D.V.V.P.F'S COLLEGE OF
(33) Name of priority country	:NA	PHYSIOTHERAPY, VILAD GHAT, AHMEDNAGAR-414 111,
(86) International Application No	:NA	INDIA. Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. CHETANA KUNDE
(61) Patent of Addition to Application Number	:NA	2)DR. MAHESHWARI HARISHCHANDRE
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Background: Cerebral palsy is the most common developmental delay condition to have physical disability in childhood affecting approximately 2 to 2.5 per 1000 live births, and is mostly diagnosed after age 2 years. Delays in diagnosis can have negative long-term consequences for children and parents. Efficient use of normal developmental milestone can best be achieved by appropriate identification of infants with the developmental delay. Aims and Objectives: To create awareness about necessity of screening developmental delay in infants and to create awareness of importance of physiotherapy in developmental delays children. Method: Team of Physiotherapy visited to the villages of Ahmednagar district within 60-70km distance, targeting children till 24 month for early identification of developmental issues through Pragati Pustak pamphlets. Pragati Pustak will be carrying information of 1) normal development till 2 years of age 2) red sign present in children with neurological disorder 3) physiotherapy management for neurologically afflicted/ developmental delay children. Pragati pustak will help parent to understand normal developmental sequence, any lacks in developmental sequence, identification of abnormal signs and the available physiotherapy facility in case of developmental delay. Survey was conducted door to door basis, Anganwadi center and PHC center. Result: From October 2016 to December 2018 total 15 villages were survey. Of which 10 villages were surveyed on door to door basis, 1 Anganwadi and 4 PHC centre of other villages were visited by the team of physiotherapy. Total 336 children (Mean age: 1.4 year) were screened and 25 children (Mean Age: 1.2 year) were founded to disabled and left untreated due to lack of awareness in the parents. 15 children are taking physiotherapy intervention weekly on appointment basis at free of cost at VPMH. 4 children were found to be referred by the awareness of the parents from this survey. Conclusion: Conclusion made from the present research is that Pragati Pustak is the simplest assessment tool which helps parents to track their children normal development and identify any developmental delay at the early age. Successful awareness about early detection of developmental delay and role of Physiotherapy to come disability was the biggest achievement of the project among rural population. Key Words: Developmental Delay, Developmental milestones, Cerebral Palsy

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821023023 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : METHOD FOR SYNTHESIS OF PROTEIN AMPHIPHILES

(51) International classification	:A61K0039000000, C07K0007060000, A61K0039120000, C07K0007080000, C07K0001130000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Address of Applicant :Dr. Homi Bhabha Road, Pashan, Pune-411008, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BRITTO, Sandanaraj Selvaraj
(33) Name of priority country	:NA	2)REDDY, Mullapudi Mohan
(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 novel cost effective method for synthesis of protein/peptide amphiphiles irrespective of functional and structural classification of proteins useful in designing a vaccine candidate from antigenic protein. The protein modification of the present invention is universal and hence any protein/peptide can be converted into amphiphilic proteins/peptides.

No. of Pages : 51 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821037241 A

(19) INDIA

(22) Date of filing of Application :03/10/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : FLOATING SUPPORT STRUCTURE CARRYING PHOTOVOLTAIC CELL AND ATTACHMENT STRUCTURE THEREOF

(51) International classification :B63B0035440000,
H02S0020000000,
F24S0025600000,
H04Q0009000000,
F24S0025000000

(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)PRADEEP N SAGAR

Address of Applicant :Ready Money Terrace, 167, Dr. Annie Besant Road, Worli Naka, Mumbai India 400018 Maharashtra India

(72)Name of Inventor :

1)PRADEEP N SAGAR

(57) Abstract :

ABSTRACT FLOATING SUPPORT STRUCTURE CARRYING PHOTOVOLTAIC CELL AND ATTACHMENT STRUCTURE THEREOF The present invention relates to coupling a photovoltaic panel to a floating structure. The floating structure is provided with holding element and a first side of the photovoltaic panel is coupled to the holding elements via a first coupling element that comprises a first set of pie elements and a set of €Z€ • shaped connector elements. Likewise, a second side of the photovoltaic panel is coupled to the holding elements via a second coupling element that comprises a second set of pie elements and a set of €Z€ • shaped connector elements. FIGURE 1

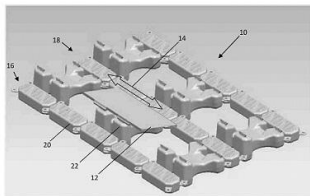


FIGURE 1

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

(54) Title of the invention : A SYSTEM FOR GENERATING AN EXTENDED REALITY ENVIRONMENT

(51) International classification	:G02B0027010000, G06F0003010000, G06T0019000000, G02B0027000000, G06F0001160000	(71)Name of Applicant : 1)DIMENSION NXG PVT. LTD. Address of Applicant :Dimension NXG, 410 & 411, 4th floor, Arcadia, Hiranandani Estate, Thane West- 400607, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)RAUT, Pankaj Uday
(33) Name of priority country	:NA	2)PATIL, Abhijit Bhagvan
(86) International Application No	:NA	3)TOMAR, Abhishek
Filing Date	:NA	4)Shantanu Barai
(87) International Publication No	: NA	5)SURI, Yukti
(61) Patent of Addition to Application Number:	NA	6)Moaz Munir Ahmad Momin
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM FOR GENERATING AN EXTENDED REALITY ENVIRONMENT A system (100) for generating a Mixed Reality (MR) environment, an augmented reality environment and virtual reality environment comprises a Head mounted device (102) (HMD) to be worn by a user, the HMD (102) includes an optical unit (104), a display unit (106), a sensing unit (108) having one or more sensors (1082) and one or more cameras (1084), an audio unit (110), a user interface (114) and one or more ports (112) configured to enable wired connection between one or more external devices and the HMD (102). Further the system (100) includes a communication module (122), a processing unit (116) connected with the HMD (102) having one or more processors, one or more memory units, a cooling module, a location tracking module and a damping detection module, a battery unit (118) and a mounting mechanism (120) to make the HMD (102) wearable for a user. [FIGURE 1]

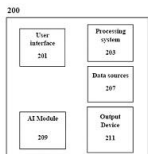


Fig-200

No. of Pages : 32 No. of Claims : 15

(54) Title of the invention : SEARCH AGRICULTURAL WORKERS USING MOBILE APPLICATION"

(51) International classification	:C09K 101/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)AASAANTECH PVT LTD
(32) Priority Date	:NA	Address of Applicant :Parekh Bhuvan, Nr Dena Bank , Main
(33) Name of priority country	:NA	Rd, Dahanu Rd, Thane, Maharashtra, 401602, India Maharashtra
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Mr. Hemil Parekh
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A mobile application for searching agricultural workers is disclosed. The mobile application can be used to recruit the agricultural workers, where the agricultural workers would have to register themselves with the mobile application, by providing their basic details including, name, address, contact number, photo, skills, experience etc., and once they enroll themselves with the application, their information along with the photo will be reflected in the mobile application which can be accessed by the agricultural managers working for landlords and larger agricultural organizations. The recruiting companies would also have to register themselves with the mobile application to gain access to the information of the candidates. The mobile application allows recruitment of the agricultural workers in large scale, thus reducing the time and effort for the recruiters.

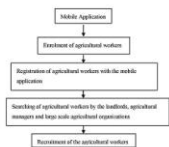


FIG 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821046859 A

(19) INDIA

(22) Date of filing of Application :11/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : HERBAL FLOOR CLEANER

(51) International classification	:A61K0036530000, A61K0036610000, A01N0065360000, G02B0027000000, A61K0036480000	(71) Name of Applicant : 1)Masako Ecommerce Pvt Ltd Address of Applicant :B703, Pratik Corner, Plot No - 49, Sector No-8/A, Airoli, Navi Mumbai - 400708, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dipak Sayaji Kokane
(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 formulation of homogeneous, clear, disinfectant compositions, for surface cleaning that contain extracts and essential oils isolated from natural herbs is disclosed. The compositions are prepared by mixing the components in a particular well-defined order on the basis of experimentation to obtain clear, transparent solutions effective against pathogenic bacteria and fungi. The process includes the defined sequence of steps of mixing together all the constituents intimately as described in the examples. The cleansing composition of the herbal floor cleaner comprises of herbs from lemon grass, olive oil, menthol, basil, eucalyptus, clove, lavender along with vinegar and baking soda.

No. of Pages : 6 No. of Claims : 1

(54) Title of the invention : A Nutraceutical Composition for the Prevention and Treatment of Hypothyroidism in Pregnant and Infertile Women

(51) International classification :A61K0045060000,
A61K0036889000,
A23L0033160000,
A61K0036185000,
A61K0031010000

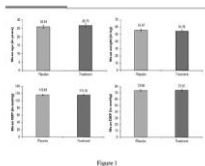
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :Plot No. 27 Sachitanand Nagar Nagpur
Maharashtra India 440024 Maharashtra India

(72)**Name of Inventor :**
1)GIRISH DAMODAR KALAMKAR
2)MAYURESH DILIP KATYAYAN

(57) Abstract :

Abstract A Nutraceutical Composition for the Prevention and Treatment of Hypothyroidism in Pregnant and Infertile Women The present invention provides a nutraceutical composition comprising iodine, selenium, vitamin D3 and lycopene as active ingredients and other ingredients in specific proportion for the prevention and treatment of hypothyroidism in the form of tablets, capsules or syrup to be taken once daily one-hour after a meal, or as a fixed measurement of the syrup to be taken once daily, ideally one-hour after a meal.



No. of Pages : 41 No. of Claims : 11

(54) Title of the invention : ELECTROCHEMICAL CELL INCLUDING OPTICAL WINDOW MADE OF TRANSPARENT ADHESIVE TAPE AND METHOD FOR MANUFACTURING THEREOF

(51) International classification	:H01M0010390000, H01M0002020000, G01N0027404000, A61B0003000000, H01M0004380000	(71)Name of Applicant : 1)Indian Institute of Technology Bombay Address of Applicant :Powai, Mumbai 400076, Maharashtra India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ajit Kumar
(33) Name of priority country	:NA	2)Arnab Ghosh
(86) International Application No	:NA	3)Sagar Mitra
Filing Date	:NA	4)Manas Ranjan Panda
(87) 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 :

Accordingly, embodiments herein disclose an electrochemical cell (100) including an optical window (130) made of a transparent adhesive tape (140). The electrochemical cell (100) is fabricated by drilling an upper surface (110) of the electrochemical cell (100) to make an aperture with a specific diameter which acts as optical window (130) and covering the aperture from the upper surface (110) of the optical window (130) and a lower surface (120) of the optical window (130) using the transparent adhesive tape (140). In an embodiment, the specific diameter is in the range of 0.5 mm to 2mm. In an embodiment, the electrochemical cell (100) comprises at least one of a 2032 type coin cell, a 2016 type coin cell, and a sodium-sulfur electrochemical cell. FIG. 1

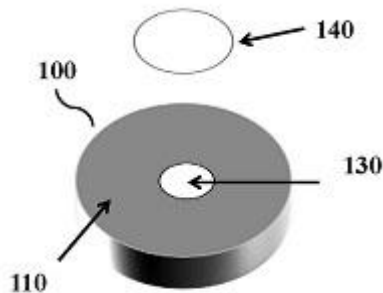


FIG. 1a

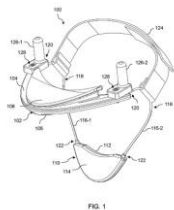
No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : NON-INVASIVE DEVICE FOR CONTROLLING SLEEP APNEA AND SNORING

(51) International classification	:A61F0005560000, A47C0009000000, B62D0033060000, H01R0004180000, F21V0023040000	(71)Name of Applicant : 1)VAIDYA, Hrushikesh Address of Applicant :2103 Bldg 7, Vasant Lawns, Majiwada, Thane 400601, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)VAIDYA, Hrushikesh
(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 describes a non-invasive device (100) for controlling sleep apnea and snoring. The non-invasive device (100) comprises a sub-mandibular support member (102) adapted to fit a mandible of a user; a chest support member (110) adapted to rest on a chest of the user; a pair of spring elements (116-1, 116-2) coupled to the sub-mandibular support member (102) and the chest support member (110) and in communication with the sub-mandibular support member (102), the pair of spring elements (116-1, 116-2) adapted to be in an expanded position when the mandible is in a forward position and in a compressed position when the mandible is in a normal position; and a strap member (124) adapted to support the sub-mandibular support member (102) and the chest support member (110) on the user such that the strap member (124), the chest support member (110), and the sub-mandibular support member (102) are adapted to restrict a movement of the pair of spring elements (116-1, 116-2) in an upward direction when the pair of spring elements (116-1, 116-2) is in the compressed position; and wherein the sub-mandibular support member (102) is adapted to move the mandible in a forward direction from the normal position to the forward position such that an airway opening is created and maintained when the pair of spring elements (116-1, 116-2) is in the compressed position..



No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND A METHOD FOR NAVIGATING A GUEST TO A HOST IN A PREMISES

(51) International classification :H04L0029060000,
H04W0004020000,
G01C0021200000,
H04L0029120000,
G06Q0010080000

(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)ZENSAR TECHNOLOGIES LIMITED
Address of Applicant :ZENSAR KNOWLEDGE PARK,
PLOT # 4, MIDC, KHARADI, OFF NAGAR ROAD, PUNE-
411014, MAHARASHTRA,, India Maharashtra India

(72)Name of Inventor :
1)KULKARNI, Sumant
2)NAMBIAR, Ullas Balan

(57) Abstract :

Systems and methods for navigating guest to host in a premises are disclosed. Upon arriving at the premises, guest place a meeting request, by using guest device, comprising host-identity data and guest-identity data. Based on the host identity data, the system determines host noticeable parameters that may be prestored in a memory to identify the host. The host-noticeable parameters comprise certain non-private parameters like host's face, host's posture, and host's voice. Based on the host noticeable parameters, a set of tracking devices locate the host within the premises. Once the host is located, the tracking devices coordinates with each other for tracking movement of the host within the premises. Based on the tracking, latest location of the host is determined. Further, the system enables the navigation assistance entity to navigate the guest to the latest location of the host. FIG. 1

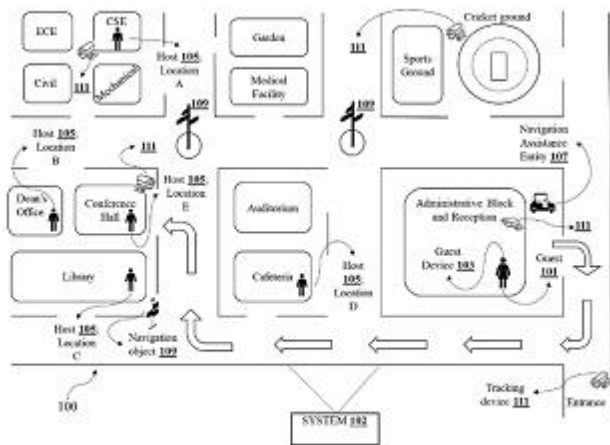


FIG. 1

(54) Title of the invention : A SYSTEM AND METHOD FOR ALLOCATING AND PRIORITIZING ACTION ITEMS

<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</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06Q0010100000, H04L0029080000, G06F0016245700, G06F0003048400, G06Q0010060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)ZENSAR TECHNOLOGIES LIMITED Address of Applicant :ZENSAR KNOWLEDGE PARK, PLOT # 4, MIDC, KHARADI, OFF NAGAR ROAD, PUNE- 411014, MAHARASHTRA,, India Maharashtra India</p> <p>(72)Name of Inventor :</p> <p>1)KISHORE, Sandeep 2)DESPANDE, Aditya Nitin 3)SARAWAGI, Nishant Sanjay 4)BANKA, Rohit 5)GUPTA, Shivam Ashokkumar</p>
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(57) Abstract :

ABSTRACT A SYSTEM AND METHOD FOR ALLOCATING AND PRIORITIZING ACTION ITEMS The present disclosure relates to the field for allocating and prioritizing action items. The system (100) for allocating and prioritizing action items comprises a server (102) communicatively coupled to at least one user interface (112). The server (102) receive at least one input associated with a client meeting from a first user via said user interface (112). The server (102) identifies action items of said client meeting from said received input to generate a list of said identified action items and determine at least one owner for executing each of said action items based on said received input. Further, the server (102) evaluates priority of execution of each of said action items based on said received input. The evaluated priorities are transmitted to a user device (110) for facilitating the first user associated with said user device (110) to execute said action items based on said evaluated priority.

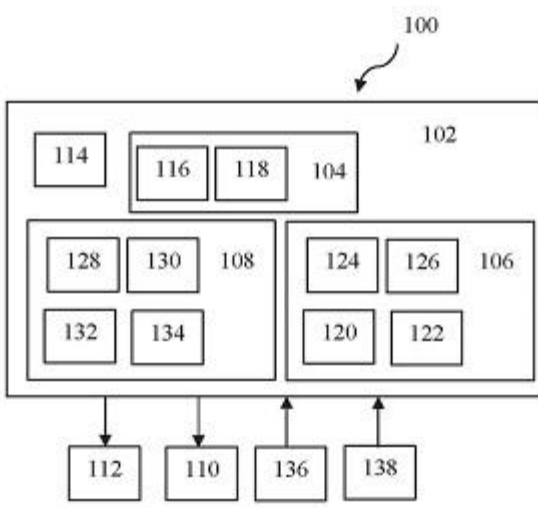


Figure 1

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

(54) Title of the invention : CO-SOLUBILIZATION PROCESS FOR PREPARING MODIFIED BITUMEN AND PRODUCT OBTAINED THEREOF

(51) International classification :C08L0095000000,
C08L0053020000,
B01D0071520000,
C08K0005090000,
C09D0007650000

(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)Indian Oil Corporation Limited
Address of Applicant :Indian Oil Corporation Limited, R&D Centre, Sector-13, Faridabad-121007, Haryana, India Maharashtra India

(72)Name of Inventor :
1)DEORUKHKAR, Amol
2)DAVID K
3)DEVOTTA I R
4)RAMAN, Naduhatty Selai
5)SAU, Madhusudan
6)MAZUMDAR, Sanjiv Kumar
7)RAMAKUMAR, Sankara Sri Venkata

(57) Abstract :

The present invention relates to a co-solubilization process for preparation of a polymer modified bitumen/asphalt and emulsified polymer modified bitumen/asphalt from bitumen, polymer, emulsifier etc. The present invention further relates to a polymer modified bitumen comprising bitumen and styrene-butadiene-styrene (SBS) linear co-polymer having high softening point. The present invention also relates to the use of the polymer modified bitumen and its emulsion in in micro-surfacing for maintenance of pavements.

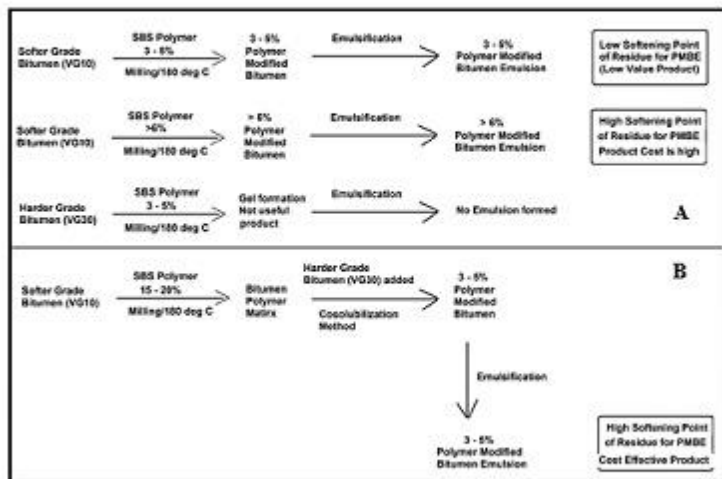


Figure 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048196 A

(19) INDIA

(22) Date of filing of Application :19/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : Method For Preparation Of Fungal Mutant With High Hydrolytic Activity

(51) International classification	:C12N0009240000, C12R0001800000, C12P0019140000, C12N0015010000, C12P0007060000	(71)Name of Applicant : 1)Indian Oil Corporation Limited Address of Applicant :G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai-400 051, India Maharashtra India 2)Department Of Biotechnology
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ADSUL, Mukund
(33) Name of priority country	:NA	2)SANDHU, Simranjeet Kaur
(86) International Application No	:NA	3)SINGHANIA, Reeta Rani
Filing Date	:NA	4)MATHUR, Anshu Shankar
(87) International Publication No	: NA	5)GUPTA, Ravi Prakash
(61) Patent of Addition to Application Number:	NA	6)TULI, Deepak Kumar
Filing Date	:NA	7)PURI, Suresh Kumar
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for preparing a hyper-cellulolytic catabolite derepressed mutants of ascomycetes fungus, especially variants of *Penicillium funiculosum*. Selection media used to isolate such variants include amorphous cellulose and a high concentration of glucose. Cellulase activities of mutant ID-10, in particular such as FPase and -glucosidase were 1.5 times higher than *Penicillium funiculosum* MRJ-16 (parent). Furthermore, fungal mutant morphology was changed and no pH adjustment was required throughout the enzyme production process.

No. of Pages : 14 No. of Claims : 11

(54) Title of the invention : POWERLINE FAILURE DETECTION MECHANISM FOR EMERGENCY LIGHTING SYSTEM IN CONSUMER PRODUCTS

(51) International classification :H02J0009060000,
H02K0007116000,
H02K0003280000,
F21V0019000000,
G01R0015200000

(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)Crompton Greaves Consumer Electricals Limited
Address of Applicant :Equinox business park Tower 3, East wing, First floor, LBS Marg, kurla(W), Mumbai- 400070 Maharashtra India

(72)Name of Inventor :
1)Trupti Mahajan
2)Prajakta Chorge
3)Ramesh Unhavane
4)Uma Lanka

(57) Abstract :

A sensing assembly comprising a Ring shaped Flux Concentrator Material fitted with current conducting wire; a sensing element with air gap; a connection for Phase incomingPhase outgoing; asensing circuit output which is connected in order to trigger a selector circuit configured for switching an Emergency Lighting System

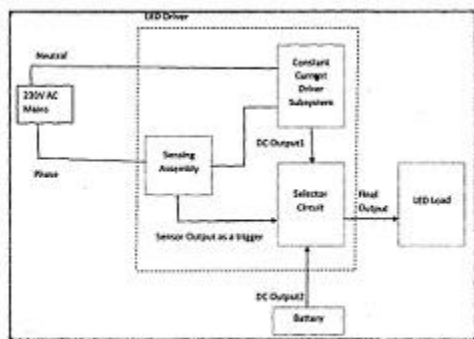


Fig 1 Conceptual Block Diagram

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048239 A

(19) INDIA

(22) Date of filing of Application :20/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : NICKEL ZINC FERRITE NANOPARTICLES DOPED CHIRAL NEMATIC LIQUID CRYSTAL FOR BLUE PHASE BASED DISPLAYS WITH LOW POWER CONSUMPTION

(51) International classification	:C09k 19/00	(71) Name of Applicant : 1)JESSY P.J
(31) Priority Document No	:NA	Address of Applicant :DEPARTMENT OF PHYSICS, UNIVERSITY OF MUMBAI, VIDYANAGARI, SANTACRUZ (EAST), MUMBAI-400 098, INDIA Maharashtra India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	2)DR. NAINESH PATEL
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)JESSY P.J
(61) Patent of Addition to Application Number	:NA	2)DR. NAINESH PATEL
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the preparation of nickel zinc ferrite (NZFO) nanoparticles doped chiral nematic liquid crystal (CNLC) which shows blue phase (BP) in wide temperature range for display application. By optimum NZFO doping, CNLC achieved low threshold voltage for Freedericksz transition in BP, thus requiring minimum power for BP displays. Enhanced photoluminescence intensity upon doping is also an additional feature acquired by CNLC to design luminescent emissive LCDs.

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

(54) Title of the invention : A HYBRID VEHICLE

(51) International classification :B60K0006485000,
B60W0010080000,
B60W0020400000,
B60K0006547000,
B60W0050080000

(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 :
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Address of Applicant :Survey No. 102, Vetal Hill, Off Paud
Road, Kothrud, Pune - 411038, Maharashtra, India Maharashtra
India
(72)Name of Inventor :
1)KAUNDINYA, Ashwin Subramanian

(57) Abstract :

The present disclosure relates to system(s) for System for providing drive at strategic points using a dynamotor coupled to a crankshaft of a two-wheeler vehicle. The system comprises a dynamotor coupled to a crankshaft of the vehicle. The system is further configured for controlling and maintaining the strategic points, whereas the strategic points includes the vehicle working in hybrid mode, electric mode, thermal mode and regeneration mode via a signal control unit, whereas the signal control unit act as a master controller to control the sub-units like an engine control unit and a motor controller for the efficient working and better utilization of the vehicle with added advantage of less fuel consumption. Further the present subject matter enables improvised dynamics and improved drivability.

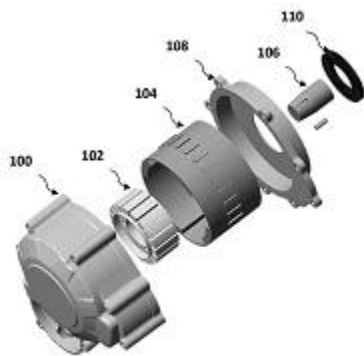


FIGURE 1

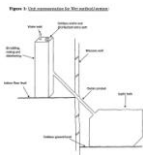
No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : NOVEL COMPOSTING METHOD FOR SANITARY WASTE DISPOSAL.

(51) International classification	:C05F 9/04	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SIDDHARTH ARUN MEHTA
(32) Priority Date	:NA	Address of Applicant :1A-903, COSMIC TOWERS, NEW
(33) Name of priority country	:NA	MHADA COLONY, NEAR LOKHANDWALA CIRCLE,
(86) International Application No	:NA	VERSOVA, ANDHERI WEST, MUMBAI-400 053,
Filing Date	:NA	MAHARASHTRA, INDIA. Maharashtra India
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)SIDDHARTH ARUN MEHTA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

1. The present invention relates to a novel non incinerating method for sanitary waste disposal that proposes added advantages to the already known method of waste disposal, i.e. incineration. Thus the present invention relates to sanitary waste (sanitary pads, tampons etc.) disposal, particularly to the method and apparatus permitting easy, eco-friendly, disposal of the sanitary waste consuming minimal energy and resources. 2. It is also well known that incineration comes with its own disadvantages, and creates emissions that release dioxins, furans, acid gas, nitrogen dioxide and does not encourage recycling. 3. Incinerators come with their own disadvantages such as emissions of dioxins, furans, acid gases, nitrogen dioxide, and other harmful gases along with ash that contains heavy metals and traces of harmful components. Incinerators are costly in operation and maintenance and they do not encourage recycling and hence prove to be uneconomical and hence their use is largely protested. The burning of used sanitary pads produces bad odour but this present invention overcomes these drawbacks. 4. By the present invention, the Applicant has developed a novel non incinerating method for sanitary waste disposal that achieves segregation of sanitary waste, reduces the volume of waste at source, does primary treatment at source, helps in resource recovery and recycling, and disposes the waste at the earliest. The uniqueness of this system/method is that it can work in wet and dry conditions. The present invention relates to a process consisting 2 separate methods for sanitary waste disposal, namely a) the Wet Method and b) the Dry Method. 5. Thus it is the object of the present invention to ensure minimum environmental damage while at the same time to provide cost efficient and energy proficient method. Another object of the present invention is to fragment the sanitary waste into small fragments for effective treatment and disposal.



No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : A RADIATOR FAN ARRANGEMENT.

(51) International classification	:F24F 1/0284	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DEERE & COMPANY
(32) Priority Date	:NA	Address of Applicant :ONE JOHN DEERE PLACE,
(33) Name of priority country	:NA	MOLINE,ILLINOIS,USA, PIN CODE: 61265 U.S.A.
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)RAVUTHU SATYAMU
(87) International Publication No	: NA	2)BARDIA PRASHANT
(61) Patent of Addition to Application Number	:NA	3)BALGURI JALAPATHI RAO
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a radiator fan arrangement (10) which includes a hub (12), a ring (14), a plurality of blades (16) and a shroud (18). The hub (12), the ring (14) and the shroud (18) are coaxially arranged. The plurality of blades (16) are disposed between the hub (12) and the ring (14). The shroud (18) encompasses an assembly of the ring (14), the hub (12) and said blades (16). The ring (14) and the shroud (18), defines an annular space (24). The annular space has a convergent section (C), a throat section (T) and a divergent section (D).

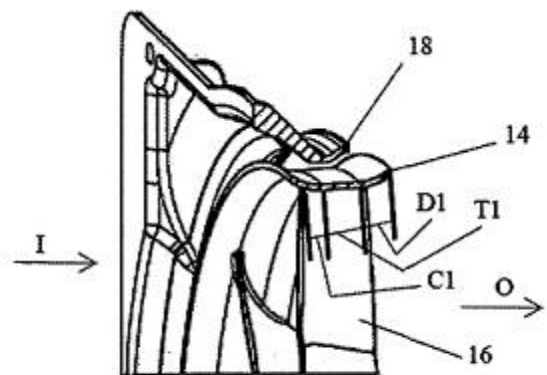


FIGURE 3

No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : METHOD AND SYSTEM FOR CARRYING OUT BINDING STUDIES ON CONVERGED INFRASTRUCTURE

(51) International classification :H04L0029080000,
G06F0016280000,
G06F0009455000,
G06F0021620000,
G06F0008410000

(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)Tata Consultancy Services Limited
Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai - 400021 Maharashtra, India Maharashtra India

(72)Name of Inventor :
1)SARAPH, Arundhati, Anupam
2)KULKARNI, Rajesh Gopalrao
3)BAKSHI, Mayank

(57) Abstract :

Molecular docking is one of the most frequently used methods in structure based drug design. Existing methods involve are very compute intensive, expensive and requires very specific skillset. A method and system for carrying out binding studies on a converged infrastructure has been provided. The system is configured to operate in three phases. In the first phase, migration of life science application in molecular docking area from classic High Performance Computing (HPC) cluster to Hadoop cluster making it easily available, manageable and cost effective. In the second phase, containers are created with application and its environment to migrate from private to public to address the peak infrastructure requirements. And the third phase is the automated cloud bursting. To be published with FIG.1

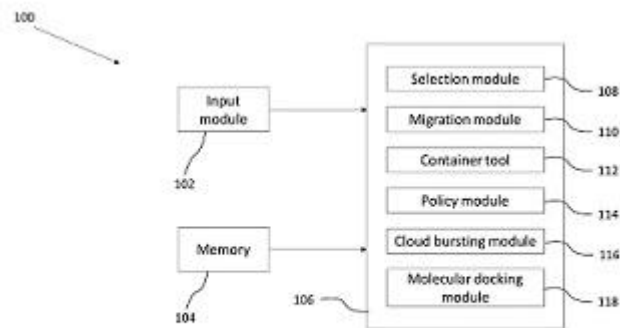


FIG. 1

No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : FLAT PLATE COLLECTOR FOR SOLAR WATER HEATER.

(51) International classification	:F24s 10/50	(71)Name of Applicant :
(31) Priority Document No	:NA	1)PATIL PRASAD PRALHAD
(32) Priority Date	:NA	Address of Applicant :SHRI GULABRAO DEOKAR
(33) Name of priority country	:NA	COLLEGE OF ENGINEERING, SHIRSOLI ROAD, JALGAON,
(86) International Application No	:NA	PIN CODE: 425001 Maharashtra India
Filing Date	:NA	2)DR. DESHMUKH DHEERAJ SHESHRAO
(87) International Publication No	: NA	3)DR. VAIDYA ADWAIT MANOHARRAO
(61) Patent of Addition to Application Number	:NA	4)PAUL IZHAK DEVID
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)PATIL PRASAD PRALHAD
Filing Date	:NA	2)DR. DESHMUKH DHEERAJ SHESHRAO
		3)DR. VAIDYA ADWAIT MANOHARRAO
		4)PAUL IZHAK DEVID

(57) Abstract :

The invention present here provides solar water heater flat plate collector without absorber plate and insulation. The riser tubes are of same diameter. The attempt is made to increase the temperature of the water in the tube by means of concentrator and to get the improvement in the performance of collector even if the sunlight is less. The novel innovative design of flat plate collector is conceived on the observation that a solar flat plate collector with an angular shape reflector instead of absorber sheet and insulation performs better than conventional solar flat plate collector. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the angular reflector or concentrator sheet, Figure 1(B) of sheet 1 showing the cross section of the one set of angular sheet, Figure 2 of sheet 2 the assembly view of the collector and position of the angular reflector with same diameter of riser tubes.

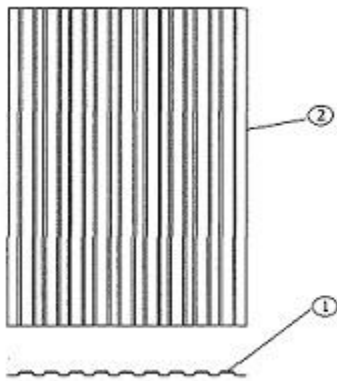


Figure 1A

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : AN ARTIFICIALLY INTELLIGENT VIRTUAL ASSISTANT FOR CONTEXTUAL TASK EXECUTION, RESPONSE GENERATION AND COMMUNICATION

(51) International classification :G10L0015220000,
G06F0009500000,
G08G0001160000,
G06N0003040000,
H04W0004120000

(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 :
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411014, MAHARASHTRA, INDIA Maharashtra India

(72)Name of Inventor :
1)KULKARNI, Sumant
2)NAMBIAR, Ullas Balan

(57) Abstract :
AN ARTIFICIALLY INTELLIGENT VIRTUAL ASSISTANT FOR CONTEXTUAL TASK EXECUTION, RESPONSE GENERATION AND COMMUNICATION • Methods and system for contextual task execution and response generation through a virtual assistant (VA) is described. The method includes receiving a task to be executed, extracting at least one context input from at least one source, inputting the at least one context input to a neural network, determining, by the neural network, a context/situation, determining a relevance level of the task based on the context/situation, determining whether to perform or delay or abort the task based on the relevance level of the task, determining a response based on one of the performed task, the delayed task, or the aborted task, determining a privacy level of the response based on the context/situation and classifying the response based on the privacy level, mapping the response to a type of response based on the classification, and presenting the response to the user. [FIG. 2(a)]

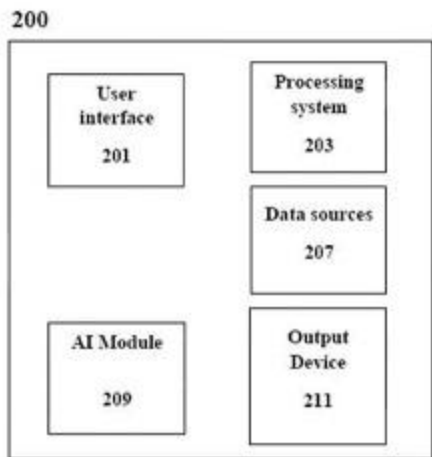


Fig- 2(a)

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048515 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : TETRAHYDRO BIQUINOLINE DERIVATIVES AND PREPARATION THEREOF

(51) International classification	:C08B 37/00	(71)Name of Applicant : 1)DR. M. M. V. RAMANA Address of Applicant :DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MUMBAI, VIDYANAGARI, SANTACRUZ(EAST), MUMBAI-400 098, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	2)PAVALE GANESH SHANKAR
(32) Priority Date	:NA	3)SHAIKH SARFARAZ FAHIM
(33) Name of priority country	:NA	4)ACHARYA POORNIMA M.
(86) International Application No	:NA	5)KOTHOTTE ANJU ASHOKAN
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. M. M. V. RAMANA
(61) Patent of Addition to Application Number	:NA	2)PAVALE GANESH SHANKAR
Filing Date	:NA	3)SHAIKH SARFARAZ FAHIM
(62) Divisional to Application Number	:NA	4)ACHARYA POORNIMA M.
Filing Date	:NA	5)KOTHOTTE ANJU ASHOKAN

(57) Abstract :

The present invention discloses novel tetrahydro biquinoline derivatives of formula (I) The present invention relates to the convergent synthesis of a series of new poly substituted tetrahydro biquinoline derivatives starting from ethyl 2-(4-aminophenyl) quinoline carboxylate, substituted benzaldehyde and Propenyl guaethol. The desired tetrahydro biquinoline derivatives have been prepared via BF₃.OEt₂ catalyzed aza Diels-Alder reaction (or Povarov reaction) by using ethyl 2-(4-aminophenyl) quinoline carboxylate, substituted benzaldehyde and Propenyl guaethol. The synthesized tetrahydro biquinoline derivatives were characterized using IR, ¹HNMR and ¹³CNMR.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : ONE POT THREE COMPONENT SYNTHESIS OF TETRAHYDRO BIQUINOLINE DERIVATIVES

(51) International classification

:G02B
9/12

(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 :

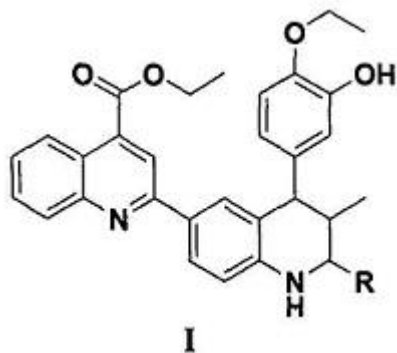
1)DR. M. M. V. RAMANAAddress of Applicant :DEPARTMENT OF CHEMISTRY,
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SANTACRUZ(EAST), MUMBAI-400 098, MAHARASHTRA,
INDIA Maharashtra India**2)PAVALE GANESH SHANKAR****3)SHAIKH SARFARAZ FAHIM****4)ACHARYA POORNIMA M.****5)KOTHOTTE ANJU ASHOKAN**

(72)Name of Inventor :

1)DR. M. M. V. RAMANA**2)PAVALE GANESH SHANKAR****3)SHAIKH SARFARAZ FAHIM****4)ACHARYA POORNIMA M.****5)KOTHOTTE ANJU ASHOKAN**

(57) Abstract :

The present invention discloses novel tetrahydro biquinoline derivatives of formula (I) The present invention relates to the one pot three component synthesis of a series of novel polysubstituted tetrahydro biquinoline derivatives starting from ethyl 2-(4-aminophenyl) quinoline carboxylate, aryl/heteroaryl aldehyde and Propenyl guaethol via BF₃.OEt₂ catalyzed aza Diels-Alder reaction (or Povarov reaction). The synthesized tetrahydro biquinoline derivatives were characterized using IR, ¹H NMR and ¹³C NMR.



No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : α -AMINOPHOSPHONATE DERIVATIVES AND PREPARATION THEREOF

(51) International classification

:C08B
37/00

(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 :

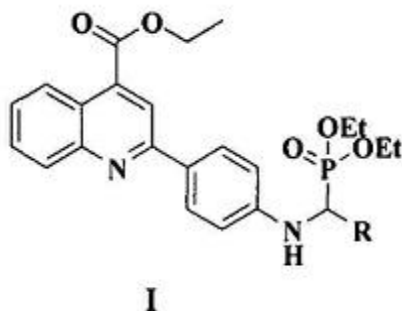
1)DR. M.M.V. RAMANAAddress of Applicant :DEPARTMENT OF CHEMISTRY,
UNIVERSITY OF MUMBAI, VIDYANAGARI,
SANTACRUZ(EAST), MUMBAI-400 098, MAHARASHTRA,
INDIA Maharashtra India**2)PAVALE GANESH SHANKAR****3)SHAIKH SARFARAZ FAHIM****4)ACHARYA POORNIMA M.****5)KOTHOTTE ANJU ASHOKAN**

(72)Name of Inventor :

1)DR. M.M.V. RAMANA**2)PAVALE GANESH SHANKAR****3)SHAIKH SARFARAZ FAHIM****4)ACHARYA POORNIMA M.****5)KOTHOTTE ANJU ASHOKAN**

(57) Abstract :

The present invention discloses novel α -aminophosphonate derivatives of formula (I) The present invention relates to the one pot three component synthesis of a series of novel class of α -aminophosphonate derivatives starting from ethyl 2-(4-aminophenyl) quinoline carboxylate, aryl/heteroaryl benzaldehyde and diethyl phosphite via SnCl catalyzed Kabachnik-Fields reaction. The synthesized α -aminophosphonate derivatives were characterized using IR, ^1H NMR and ^{13}C NMR.



No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : ONE POT THREE COMPONENT SYNTHESIS OF α -AMINOPHOSPHONATE DERIVATIVES

(51) International classification

:G02B
9/12

(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 :

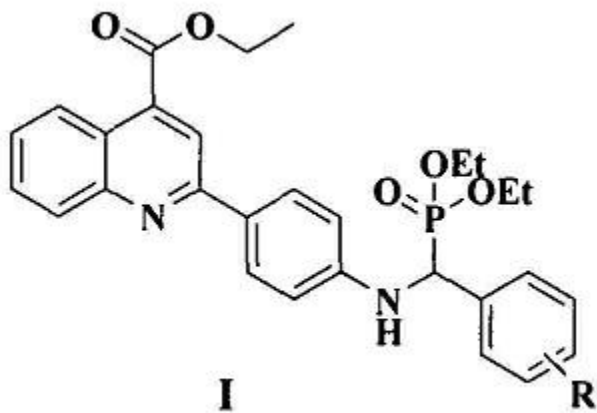
1)DR. M. M. V. RAMANAAddress of Applicant :DEPARTMENT OF CHEMISTRY,
UNIVERSITY OF MUMBAI, VIDYANAGARI,
SANTACRUZ(EAST), MUMBAI-400 098, MAHARASHTRA,
INDIA Maharashtra India**2)PAVALE GANESH SHANKAR****3)SHAIKH SARFARAZ FAHIM****4)ACHARYA POORNIMA M.****5)KOTHOTTE ANJU ASHOKAN**

(72)Name of Inventor :

1)DR. M. M. V. RAMANA**2)PAVALE GANESH SHANKAR****3)SHAIKH SARFARAZ FAHIM****4)ACHARYA POORNIMA M.****5)KOTHOTTE ANJU ASHOKAN**

(57) Abstract :

The present invention discloses novel α -aminophosphonate derivatives of formula (I) The present invention relates to the novel class of compounds, α -aminophosphonates bearing quinoline moiety with their preparation through acid catalyzed one pot three components Kabachnik-Fields reaction. It involves the one pot reaction of ethyl 2-(4-aminophenyl) quinoline carboxylate, substituted benzaldehyde and diethyl phosphite using SnCl_3 as Lewis acid catalyst in dichloromethane. The synthesized α -aminophosphonate derivatives were characterized using IR, ^1H NMR and ^{13}C NMR.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048520 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROCESS FOR PREPARATION OF N-SUBSTITUTED DIETHYL(3(1-AMINOETHYLIDENE)-2-OXOCHROMAN-4-YL)PHOSPHONATES CATALYZED BY YTTERBIUM (III) TRIFLATE UNDER ULTRASONIC CONDITION AND THEIR ANTI-PROSTATE CANCER ACTIVITY

(51) International classification	:C07F 9/00	(71)Name of Applicant : 1)DR. M.M.V. RAMANA Address of Applicant :DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MUMBAI, VIDYANAGARI,SANTACRUZ (EAST), MUMBAI-400 098,INDIA Maharashtra India
(31) Priority Document No	:NA	2)SHAIKH SARFARAZ FAHIM
(32) Priority Date	:NA	3)PAVALE GANESH SHANKAR
(33) Name of priority country	:NA	4)ACHARYA POORNIMA M.
(86) International Application No	:NA	5)KOTHOTTE ANJU ASHOKAN
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. M.M.V. RAMANA
(61) Patent of Addition to Application Number	:NA	2)SHAIKH SARFARAZ FAHIM
Filing Date	:NA	3)PAVALE GANESH SHANKAR
(62) Divisional to Application Number	:NA	4)ACHARYA POORNIMA M.
Filing Date	:NA	5)KOTHOTTE ANJU ASHOKAN

(57) Abstract :

The present invention relates to the preparation and characterization of N-substituted diethyl (3-(1-aminoethylidene)-2-oxochroman-4-yl)phosphonate derivatives catalyzed by Ytterbium (111) triflate under ultrasonic condition and their anti-prostate cancer activity .

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048521 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : PROCESS FOR PREPARATION OF N-SUBSTITUTED (3-(1-AMINOETHYLIDENE)-2-OXOCHROMAN-4-YL)PHOSPHONIC ACID DIETHYL ESTER DERIVATIVES UNDER ULTRASONIC CONDITION AND THEIR ANTI-PROSTATE CANCER ACTIVITY

(51) International classification	:C07F 9/00	(71)Name of Applicant : 1)DR. M. M. V. RAMANA Address of Applicant :DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MUMBAI, VIDYANAGARI, SANTACRUZ (EAST), MUMBAI- 400 098,INDIA Maharashtra India
(31) Priority Document No	:NA	2)SHAIKH SARFARAZ FAHIM
(32) Priority Date	:NA	3)PAVALE GANESH SHANKAR
(33) Name of priority country	:NA	4)ACHARYA POORNIMA M.
(86) International Application No	:NA	5)KOTHOTTE ANJU ASHOKAN
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. M. M. V. RAMANA
(61) Patent of Addition to Application Number	:NA	2)SHAIKH SARFARAZ FAHIM
Filing Date	:NA	3)PAVALE GANESH SHANKAR
(62) Divisional to Application Number	:NA	4)ACHARYA POORNIMA M.
Filing Date	:NA	5)KOTHOTTE ANJU ASHOKAN

(57) Abstract :

The present invention relates to the preparation and characterization of N-substituted (3-(1-aminoethylidene)-2-oxochroman-4-yl)phosphonic acid diethyl ester derivatives under ultrasonic condition and their anti-prostate cancer activity.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048522 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : ULTRASOUND MEDIATED SYNTHESIS OF NOVEL N-ARYL AMINOPHOSPHONATES BEARING PYRAZOLE MOIETY AND THEIR ANTI-PROSTATE CANCER ACTIVITY

(51) International classification	:C07F 9/00	(71)Name of Applicant : 1)DR. M.M.V.RAMANA Address of Applicant :DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MUMBAI, VIDYANAGARI, SANTACRUZ(EAST), MUMBAI-400 098, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	2)SHAIKH SARFARAZ FAHIM
(32) Priority Date	:NA	3)PAVALE GANESH SHANKAR
(33) Name of priority country	:NA	4)ACHARYA POORNIMA M.
(86) International Application No	:NA	5)KOTHOTTE ANJU ASHOKAN
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. M.M.V.RAMANA
(61) Patent of Addition to Application Number	:NA	2)SHAIKH SARFARAZ FAHIM
Filing Date	:NA	3)PAVALE GANESH SHANKAR
(62) Divisional to Application Number	:NA	4)ACHARYA POORNIMA M.
Filing Date	:NA	5)KOTHOTTE ANJU ASHOKAN

(57) Abstract :

Abstract of the invention: The present invention relates to the preparation and characterization of novel N-arylaminophosphonates bearing pyrazole moiety and their anti-prostate cancer activity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048523 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : LIPASE CATALYZED SYNTHESIS AND CHARACTERIZATION OF N-ARYLAMINOPHOSPHONATES BEARING ANTIPYRINE MOIETY UNDER SOLVENT-FREE CONDITION

(51) International classification	:A61K 38/00	(71)Name of Applicant : 1)DR. M.M.V. RAMANA Address of Applicant :DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MUMBAI, VIDYANAGARI, SANTACRUZ(EAST), MUMBAI-400 098, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	2)SHAIKH SARFARAZ FAHIM
(32) Priority Date	:NA	3)PAVALE GANESH SHANKAR
(33) Name of priority country	:NA	4)UPARKAR JASMIN JITENDRA
(86) International Application No	:NA	5)ACHARYA POORNIMA M.
Filing Date	:NA	6)KOTHOTTE ANJU ASHOKAN
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DR. M.M.V. RAMANA
Filing Date	:NA	2)SHAIKH SARFARAZ FAHIM
(62) Divisional to Application Number	:NA	3)PAVALE GANESH SHANKAR
Filing Date	:NA	4)UPARKAR JASMIN JITENDRA
		5)ACHARYA POORNIMA M.
		6)KOTHOTTE ANJU ASHOKAN

(57) Abstract :

The present invention relates to the preparation and characterization N-arylamino phosphonates bearing antipyrine moiety catalyzed by lipase under solvent-free condition

No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : ELECTRICAL SOCKET WITH IMPROVED SAFETY FOR ENABLING POSITIVE ENGAGEMENT BETWEEN A PLUG AND THE ELECTRICAL SOCKET USING A PLUG ACTUATED SWITCH

(51) International classification	:H01R0013703000, H01R0013453000, H01R0043200000, H01R0013633000, H01R0013717000	(71)Name of Applicant : 1)VINAYAK MADHAV RAO Address of Applicant :#13, LAXMI RESIDENCY, LANE 10, DAHANUKAR COLONY, KOTHRUD, MAHARASTRA India Maharashtra India
(31) Priority Document No	:NA	2)NIKHIL VINAYAK RAO
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)VINAYAK MADHAV RAO
(86) International Application No	:NA	2)NIKHIL VINAYAK RAO
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 :

ELECTRICAL SOCKET WITH IMPROVED SAFETY FOR ENABLING POSITIVE ENGAGEMENT BETWEEN A PLUG AND THE ELECTRICAL SOCKET USING A PLUG ACTUATED SWITCH 5 An electric socket 202 with improved safety for enabling positive engagement between a plug 402 and the electrical socket 202 using a plug actuated switch is provided. The plug actuated switch comprises a spring loaded probe 204 that is embedded into the electrical socket 202 in a vertical or horizontal position. A first end of the spring loaded probe 204 is connected to at least 10 one pressurizing spring 302 and a second end of the spring loaded probe 204 is projected into a neutral wire socket groove 206 of the electrical socket 202. When both prongs 404 of the plug 402 are inserted into the electrical socket 202, the spring loaded probe 204 is actuated and an electrical contact 303 of the spring loaded probe 204 moves towards an electrical contact 304 of the AC power supply 306. This enables AC power supply 306 to a live wire socket groove 208 15 due to a pressure exerted by the insertion of plug prongs 404 into the electrical socket 202. The pressurizing spring 302, in turn, is compressed which in turn exerts a positive pressure to enable a positive engagement between the plug 402 and the electrical socket 202, by holding the plug 402 firmly pressed against the socket groove. The positive pressure holds the plug 402 into a position inside the electrical socket 202 and enables a plug pin 404 to electrically contact the live 20 wire socket groove 208 of the electrical socket 202. FIG. 1

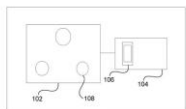


FIG. 1 (PRIOR ART)

No. of Pages : 28 No. of Claims : 9

(54) Title of the invention : SEQUENTIAL LED BLINKER DRAWING CONSTANT CURRENT FROM SOURCE

(51) International classification :H05B0033080000,
H04L0005140000,
F21V0029900000,
G01N0027040000,
F21V0023040000

(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 :
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Address of Applicant :Gat No 148, Mahalunge Ingale, Off Chakan Talegaon Road, Taluka - Khed, Dist €“Pune, Maharashtra 410501, India Maharashtra India

(72)Name of Inventor :
1)Sachin R. Telore
2)Santosh Tandale
3)Vikas Katak

(57) Abstract :

€A SYSTEM FOR SEQUENTIAL BLINKING AND METHOD THEREFOR€ • The present disclosure relates to a system for sequential blinking (300) of the LED blinker which draws constant current and a method thereof. According to an embodiment of the present disclosure, the system (300) comprises of a constant current LED driver (301) connected to a body control unit (BCU) of a vehicle; a microcontroller (303) connected to the constant current LED driver (301) and BCU; a first string (305) connected to the constant current LED driver (301) and the microcontroller (303); and at least one LED string (307a, 307b) connected to the constant current LED driver (303) and the microcontroller (305). Further, the string1 (305) comprises of more than one diode and resistor and the at least one LED string (307a, 307b) comprises of more than one LED. In an embodiment, the system (300) ensures that current provided to each LED in the at least one LED string (307a, 307b) is constant. [Fig. 1]

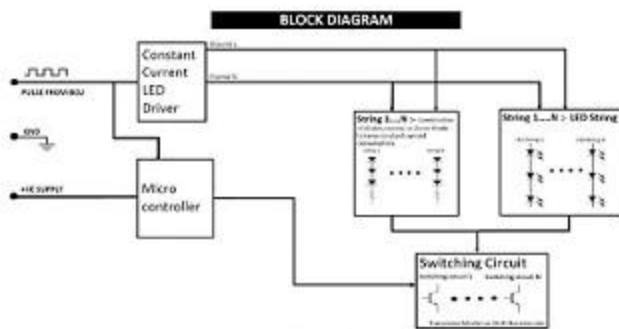


Fig-1

No. of Pages : 23 No. of Claims : 11

(54) Title of the invention : VIRTUAL REMOTE SYSTEM AND METHOD OF DATA AGGREGATION

(51) International classification :H04W0012080000,
H04L0029060000,
H04L0029080000,
G06F0016245700,
G06Q0030020000

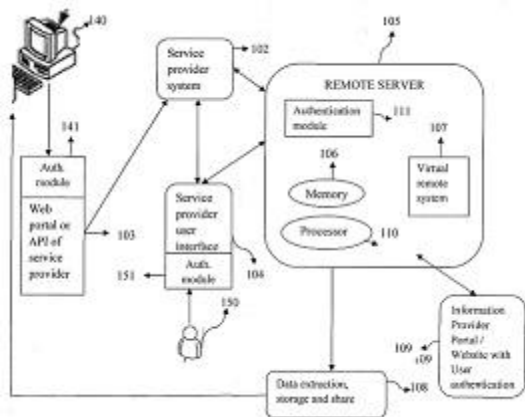
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :Office 108, Tower B, Gokul Arcade 'B'
Premises Subhash Road, Vile Parle East Mumbai, Mumbai City.
Maharashtra India

(72)Name of Inventor :
1)Mr. Khushal Shailesh Kadakia
2)Mr. Vinaya Sathyanarayana
3)Mr. Anoop Hegde

(57) Abstract :

The present invention relates generally to a system of data aggregation to assess a user, performed by a computer implemented method on an online network. Particularly the invention relates to a service provider system enabled data aggregation, executed on receipt of a request from a information requestor. The invention further relates to computer enabled system comprising of a processor [110], a service provider web system of data aggregation comprising a service provider system or application [102] accessible by the information requestor at a client device [140], accessible by the user at a user device [150], a temporary virtual remote system [107] created instantaneously on a remote server [105] upon user request to enable data downloading and aggregation and destroying of the virtual system on updating of the database with the user data. Figure 1.



No. of Pages : 35 No. of Claims : 16

(54) Title of the invention : A SWITCH

(51) International classification	:H01L0021677000, H01R0004300000, G01R0019000000, H04W0088080000, G01N0027406000	(71)Name of Applicant : 1)APPLETON GRP LLC Address of Applicant :9377, Higgins Road, Rosemount, IL, 60018, USA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SACHAN Abhinav Singh 2)DESAI, Suraj
(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 relates to the field of limit switches and discloses a switch with detachable terminal members (112). The switch comprises a first cassette (104), a second cassette (202), a plurality of terminal members (112), and a locking arrangement. The first cassette (104) is connected to the second cassette (202) to define at least one compartment (116) for detachably housing the plurality of terminal member(s) (112). Each of the terminal members (112) is defined by a lug (114) and a terminal strip (112a) extending from the lug (114). The locking arrangement is configured to restrict the movement of the terminal members (112) with respect to the first cassette (104) in the operative configuration of the switch.

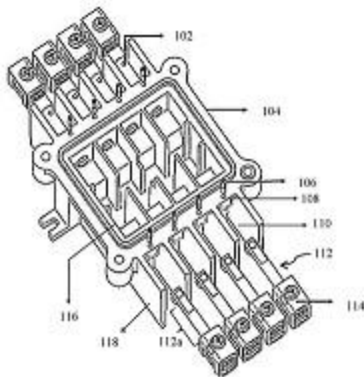


Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048765 A

(19) INDIA

(22) Date of filing of Application :22/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : CHARCOAL NASAL STRIP FOR REMOVAL OF WHITEHEADS, BLACKHEADS AND DIRT FROM THE SKIN SURFACE

(51) International classification	:A61K0009000000, A61K0008020000, A61Q0019000000, A61K0008810000, A61F0013120000	(71) Name of Applicant : 1)New Horizon Medical Technologies Private Limited Address of Applicant :S no. 6 3 2 160 4, Bail Bazar road, Old Kurla, Sofia Villa, Mumbai, Mumbai City, Maharashtra 400058 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Arjun S Jedhe
(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 nasal strip for removal of impurities and dead skin cells from the skin surface is disclosed. The formulation comprising of 1-95% of a nonionic polymer; 0.1-99% of an exfoliating agent. The nasal strip comprises of an upper layer which is made of fabric and a lower layer which is attached to the upper layer comprising of a formulation including at least one nonionic polymer and at least one skin conditioning agent that can remove the impurities from the skin. The method of application of the nasal strip includes applying the nasal strip to the skin surface on the nose, leaving the nasal strip in contact with the skin for the formulation to react, and peeling off the nasal strip.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048766 A

(19) INDIA

(22) Date of filing of Application :22/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : CHARCOAL EXFOLIATING SCRUB FORMULATION

(51) International classification	:A61K0008970000, A61Q0019000000, A61Q0019100000, A61K0009000000, A61K0008020000	(71) Name of Applicant : 1)New Horizon Medical Technologies Private Limited Address of Applicant :S no. 6 3 2 160 4, Bail Bazar road, Old Kurla, Sofia Villa, Mumbai, Mumbai City, Maharashtra 400058 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Arjun S Jedhe
(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 facial exfoliating scrub composition containing charcoal is disclosed. The scrub comprises of activated charcoal with other additives, which can be applied on the surface of the skin and massaged in particular manner to efficiently remove the dead skin cells and to promote the growth of new skin cells. The components of facial scrub includes carbopol Ultrez 21: 0.3-0.7%; propylene glycol: 8-20%; soothing desensitizer: 0.05 to 1% - 2%; pH adjusting agent: 3-6%; ethanol: 8-20%; quality flavors is 0.1%; scrub particles: 0.1-2%; exfoliating agent: 0.001- 0.5%; botanical extracts: 0.01- 0.05%; and preservatives: 0.5%. The exfoliating facial scrub is produced whose pH value in the range from 6.0 to 7.5. The matte particles such as PPG-51/SMDI copolymer, and a combination of natural keratinous plant scrub cleaning agents along with exfoliating agents like natural plant leading bamboo / Stem Extract fine plants, almond, walnut particles and charcoal particles are used.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048767 A

(19) INDIA

(22) Date of filing of Application :22/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : CHARCOAL FACIAL MASK COSMETIC FORMULATION

(51) International classification	:A61K0008020000, A61Q0019100000, A61Q0019000000, A61K0047100000, A61K0008190000	(71) Name of Applicant : 1)New Horizon Medical Technologies Private Limited Address of Applicant :S no. 6 3 2 160 4, Bail Bazar road, Old Kurla, Sofia Villa, Mumbai, Mumbai City, Maharashtra 400058 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Arjun S Jedhe
(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 facial pack composition containing charcoal which can be applied on the face in the form of a face pack, and the process for the preparation is disclosed. The facial pack composition comprises of 0.1-50 parts by weight of activated charcoal, along with various additives which helps in removal of impurities such as skin oil, dead skin cells, and dust etc. The activated charcoal has increased adsorption capacity due to the presence of plurality of pores which adsorbs all the impurities from the skin surface with an excellent cleansing effect, making the skin radiant and, flawless. The face pack can be used as wash off packs, peel-off pack, sheet type pack, cleansing cream, massaging cream and so on. The activated charcoal in the powder form is taken to be mixed with various additives and preservatives, and is dissolved in pure water at certain temperature to create an emulsified mixture.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048768 A

(19) INDIA

(22) Date of filing of Application :22/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : CHARCOAL TOOTHPASTE FORMULATION

(51) International classification	:A61Q0011000000, A61K0008970000, A61L0026000000, A61K0008260000, C08G0018500000	(71) Name of Applicant : 1)New Horizon Medical Technologies Private Limited Address of Applicant :S no. 6 3 2 160 4, Bail Bazar road, Old Kurla, Sofia Villa, Mumbai, Mumbai City, Maharashtra 400058 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Arjun S Jedhe
(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 charcoal toothpaste composition is disclosed which specifically contains 0.5% to 50% weight of the total toothpaste composition amount of active carbon, which is of vegetable origin. The toothpaste formulation is in the form of a paste or gel, in which the ingredients can include monobasic, dibasic and tribasic phosphates of alkali and alkaline earth metals, binders such as foaming agents, tamponierende, neutralizing and moisturizing agents, preservatives, flavoring and coloring agents, opacifiers, polymeric agents, softening support means, densification means, sorbitol, diethylene glycol, propylene glycol, polypropylene glycol and activated carbon. The charcoal toothpaste formulation is prepared by making uniform dispersion of activated carbon with polyglycols, carrier substances, and binding agent, distilled water with all other ingredients and heated and the mixture is further processed and stored.

No. of Pages : 20 No. of Claims : 7

(54) Title of the invention : BIFURCATED LANCE FOR KNAPSACK/BACKPACK SPRAYER

(51) International classification :A01M0007000000,
B05B0007240000,
B05B0009080000,
B05B0007140000,
B05B0001260000

(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 :

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(72)Name of Inventor :

1)Dr. D. R. Saxena**2)Dr. Moly Saxena****3)Prankur Saxena**

(57) Abstract :

The present invention relates to a bifurcated lance that can be connected with any knapsack/backpack sprayer. The lance is bifurcated into two arms in opposite direction. The lance is tilted at an angle of 20 degrees from its axis in a downward direction. The lance is used to spray any chemical such as fertilizer, herbicide or pesticide into the crops standing in a field. The lance is used for targeted spray that is into the stem of the crops sown at 30 cm apart distance. The lance is used to spray chemicals at lower stem, collar and root of crops.

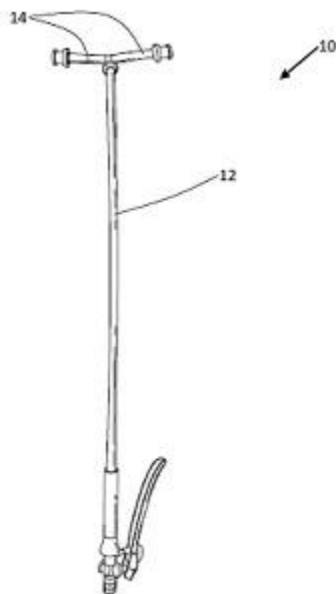


FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048843 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : SYNERGISTIC HERBICIDAL COMPOSITION COMPRISING OF FLORPYRAUXIFEN BENZYL

(51) International classification :A01N0043900000,
A01N0043653000,
A01N0047360000,
A01N0037220000,
A01N0043560000

(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 :
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Address of Applicant :404, Lalita Complex, 352/3 Rasala
Road, Navrangpura, Ahmedabad Gujarat India 380009 Gujarat
India

(72)Name of Inventor :
1)SHAH, Kenal V.
2)SHAH, Bhavesh V.
3)Dr. Arvind Singh
4)PATEL Dipakkumar

(57) Abstract :

ABSTRACT: A herbicidal composition comprises of A) Florpyrauxifen benzyl B) at least one herbicide selected from Bispyribac sodium, Fenoxaprop-P-Ethyl, Cyhalofop butyl, Metamifop, Penoxsulam, Triafamone and Cyclopyrimorate C) at least one more herbicide selected from Pyrazosulfuron Ethyl, Ethoxysulfuron, Azimsulfuron, Imazosulfuron, Propyrisulfuron, Metsulfuron Methyl, Tefuryltrione, Penoxsulam, Pyribenzoxim, Bentazon, 2,4-D (Different salt), Propanil, Sulfentrazone and Carfentrazone Ethyl with one or more inactive excipients. The present invention also relates to process for preparing the said composition and its use as herbicide.

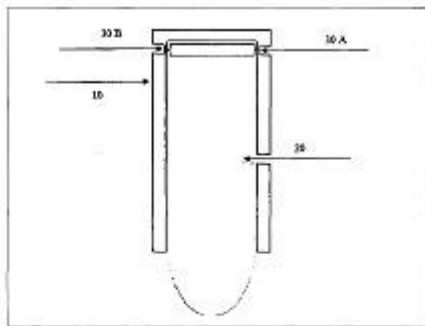
No. of Pages : 43 No. of Claims : 8

(54) Title of the invention :SLIDING FOLDING IRONING BOARD"

(51) International classification	:D06F0081060000, B26B0029060000, H05K0003340000, C09J0005060000, E04F0015020000	(71)Name of Applicant : 1)MILIND TADVALKAR Address of Applicant :F-104, UNITY WADALA CHS, VIDYALANKAR MARG, WADALA(EAST), MUMBAI-400 037, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MILIND TADVALKAR
(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 portable ironing board assembly for mounting to a structure, such as a wall or door, and which is pivotally attached to a frame. The surface board slides into horizontal position when in use. Also the surface board is capable of being retracted back vertically in a compact way when not in use. The surface board have grooves on both sides. Pivots are provided on the on both sides of surface board. They slide in the grooves. This arrangement allows a very smooth sliding movement of the board from vertical to horizontal. To make the surface board to remain sturdy and strong during its use, a simple rod and leg is provided underneath it.



Schematic front view of exemplary sliding mechanism of wall or door mounted portable ironing board assembly.

Figure 1

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : EXHAUST FILTER FOR 2 STROKE, 3 STROKE AND 4 STROKE DIESEL, PETROL, LPG AND CNG BASED VEHICLES

(51) International classification :C11D0003430000,
F01N0003000000,
F01N0003040000,
F26B0023020000,
C10L0001100000

(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 :

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AGRA ROAD, NASHIK-422002, MAHARASHTRA, INDIA
Maharashtra India

(72)Name of Inventor :

1)SAURABH SANJAY SHINDE

(57) Abstract :

The pollution of air through the combustion of automobile fuels combined with the burning of other fuels in factories and industries has become the most serious problem faced by not just India, but numerous foreign nations too. Not only do the millions of automobiles motor bikes, mopeds, scooters, rickshaws, cars and trucks contribute materially to this pollution, but most buses, diesel engines on railroads and also employed in farm machinery, tractor and heavy construction and road machinery contribute heavily to this unfortunate situation. It is well established at the present time that the cumulative effect of the products of combustion from internal combustion engines is now a hazard to human health. In order to mitigate this problem at the grass root level and help the nature earth to certain massive extent, this invention has been introduced, so that it will help in reducing this very alarming rate of carbon di oxide and other flue gases that exhausts from automobiles.

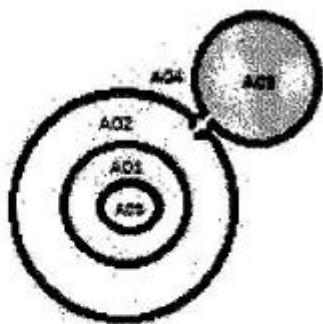


Fig. A

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : DISPLAY DEVICE

(51) International classification :H01L0027320000,
G09G0003200000,
H01L0051520000,
H01L0033500000,
G02F0001133500

(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 :
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Address of Applicant :No. 160 Kesuyue Rd., Jhu-Nan Site,
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(72)Name of Inventor :
1)Hsiao-Lang, LIN
2)Tsung-Han, TSAI

(57) Abstract :

The disclosure provides a display device, including a display unit emitting an output light having an output spectrum corresponding to a highest gray level of the display device. A maximum peak of the output spectrum from 543 nm to 780 nm is defined as a first intensity peak corresponding to a first wavelength, a difference is defined as subtracting a second intensity integral of the output spectrum from 543 nm to the first wavelength from a first intensity integral of the output spectrum from the first wavelength to 780 nm, a ratio of a third intensity integral of the output spectrum from 380 nm to 543 nm to the difference is greater than or equal to 0.5% and less than or equal to 38.0%.

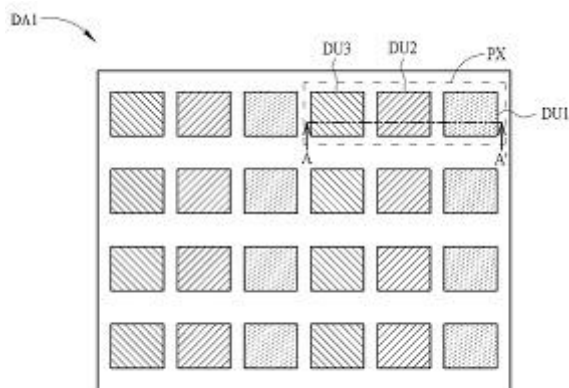


FIG. 1

No. of Pages : 49 No. of Claims : 20

(54) Title of the invention : AN AUTOMATIC CYCLE TIME AND OUTPUT CALCULATOR FOR INDUSTRIAL SEWING MACHINE

(51) International classification	:D05B 69/00	(71)Name of Applicant : 1)ANKUR MAKHIJA
(31) Priority Document No	:NA	Address of Applicant :NIFT CAMPUS, GH-0 ROAD, GANDHINAGAR-382007, GUJARAT, INDIA Gujarat India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)ANKUR MAKHIJA
(86) International Application No	:NA	2)MEENAKSHI GUPTA
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 device and method for auto computing cycle time of an operation on an industrial sewing machine. Accordingly, the device for calculating cycle time in a sewing machine, comprising a detecting means for detecting an operation-start signal, and an operation-stop signal in a cycle. A processor is coupled with the said detecting means, the processor comprising a calculating unit for calculating cycle time, a comparison unit for comparing the cycle time with a reference time and a cycle time classifying unit for classifying the cycle time into either one of on time, before time, and after time based on the comparison output. The device further comprises, a display unit designed for outputting the classified cycle time in an identifiable manner. This device is suitable for using on an already existing sewing machine or capable of incorporating it on a new sewing machine. For publication figure 2

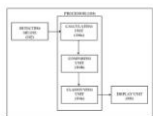


Figure 2

No. of Pages : 21 No. of Claims : 9

(54) Title of the invention : SYSTEM AND METHOD FOR HYPERLOCAL MARKETPLACE MANAGEMENT

(51) International classification	:H04W0004021000, G06Q0030020000, G06Q0020040000, A61B0006000000, G06Q0030060000
(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

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 Address of Applicant :1504, Tower 31, Amanora Park Town, Hadapsar, Pune, Maharashtra, India Maharashtra India
2)Vaishnavi Saurabh Sonar

(72)Name of Inventor :
1)Saurabh Nandkishor Sonar
2)Vaishnavi Saurabh Sonar

(57) Abstract :

A system and a method for hyperlocal marketplace management is provided. The system includes a registration module registers a customer and one or more retailers. A retrieval module retrieves data related to a registered customer and data related to one or more registered retailers in real-time. A generation module is configured to enable the one or more registered retailers to generate a geo-fence based on the data related to the one or more registered retailers, enable the registered customer to create a purchasing list of the at least one product to be purchased by the registered customer and generate a comparison list based on the purchasing list by extracting data of the at least one product from the one or more registered retailers in the geo-fence. FIG. 1

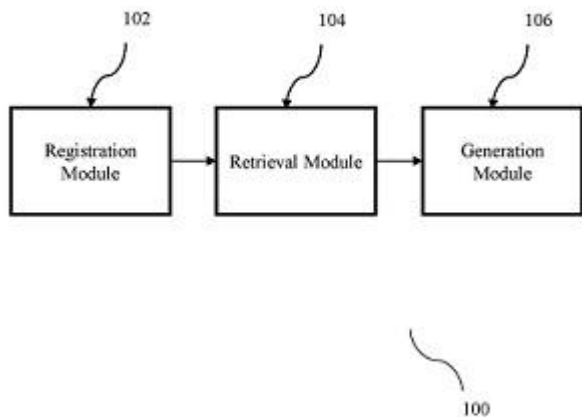


FIG.1

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

(54) Title of the invention : SODIUM-ION BASED FULL CELL AND METHOD OF FABRICATING ELECTRODES FOR THE SODIUM-ION BASED FULL CELL

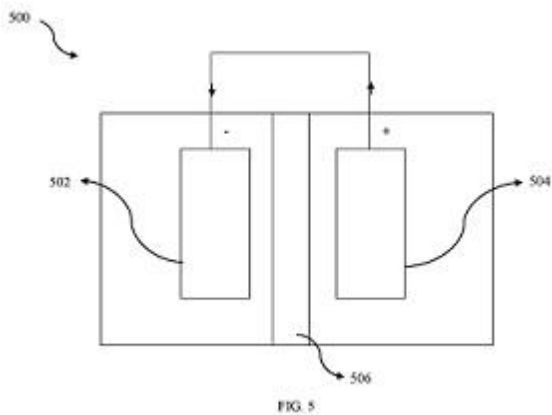
(51) International classification :H01M0010054000,
H01M0004040000,
H01M0004525000,
H01M0004020000,
H01M0004380000

(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 :
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Address of Applicant :Powai, Mumbai 400076, Maharashtra
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(72)Name of Inventor :
1)Prasit Kumar Dutta
2)Sagar Mitra

(57) Abstract :

Embodiments provide a Sodium-ion (Na-ion) based full cell with Prussian Blue (PB) compound synthesized as cathode material for preparing a cathode electrode. The Na-ion based full cell further comprises SnS compound synthesized as anode material for preparing an anode electrode. The Na-ion based further comprises an electrolyte layer disposed between each of the cathode electrode and the anode electrode. **FIG. 5**



No. of Pages : 21 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048941 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : NOVEL SYNERGISTIC POLYHERBAL MEMORY ENHANCING FORMULATION FOR PREVENTION AND TREATMENT OF ALZHEIMER'S

(51) International classification	:A61K 36/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. MALVIYA SAPNA
(32) Priority Date	:NA	Address of Applicant :MODERN INSTITUTE OF
(33) Name of priority country	:NA	PHARMACEUTICAL SCIENCES (MIPS), GRAM ALWASA,
(86) International Application No	:NA	BEHIND REWTI RANGE, SANWER ROAD, INDORE (M.P.)-
Filing Date	:NA	453111 Madhya Pradesh India
(87) International Publication No	: NA	2)MR. JOSHI ANKUR
(61) Patent of Addition to Application Number	:NA	3)MR. KHARIA ANIL
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)DR. MALVIYA SAPNA
Filing Date	:NA	2)MR. JOSHI ANKUR
		3)MR. KHARIA ANIL

(57) Abstract :

The current invention provides novel herbal Complex powder to improve the memory and in management of senile and presenile dementia as well as alzheimer disease. Formulation(s) comprises of powder of Acorus calamus (rhizome powder), Calastrus paniculatus (seed powder), Centella asiatica (leaves powder), and Vitex trifolia (leaves powder). The formulation can be used as a powder or tablet or as a hard gelatin capsule for oral dosage forms.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : A VERNIER CALLIPER FOR MEASURING LINEAR DIMENSIONS OF AN ARTICLE

(51) International classification :G01B0003200000,
B25B0013140000,
G01B0017000000,
B62D0001040000,
G04F0010000000

(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 :
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(72)Name of Inventor :
1)Vinayak Chavan

(57) Abstract :

Abstract Title: A Vernier Calliper for Measuring Linear Dimensions of an Article The present invention is to provide a vernier calliper 100 for measuring linear dimensions of an article. The vernier calliper 100 is having an external jaw 210 including a fixed jaw 110 and a movable jaw 120. The articles for measuring are placed between the fixed jaw 110 and the movable jaw 120. The vernier calliper 100 is also provided with an operating member 130 and a knob 140. The operating member 130 is operably connected to the movable jaw 120 with a gear mechanism 150 therebetween. The operating member 130 is operated manually to move the movable jaw 120 towards and or away from the fixed jaw 110. Further, the knob 140 is arranged on the vernier calliper 100 for changing the direction of movement of the movable jaw 120 upon operating the operating member 130. Figure 2

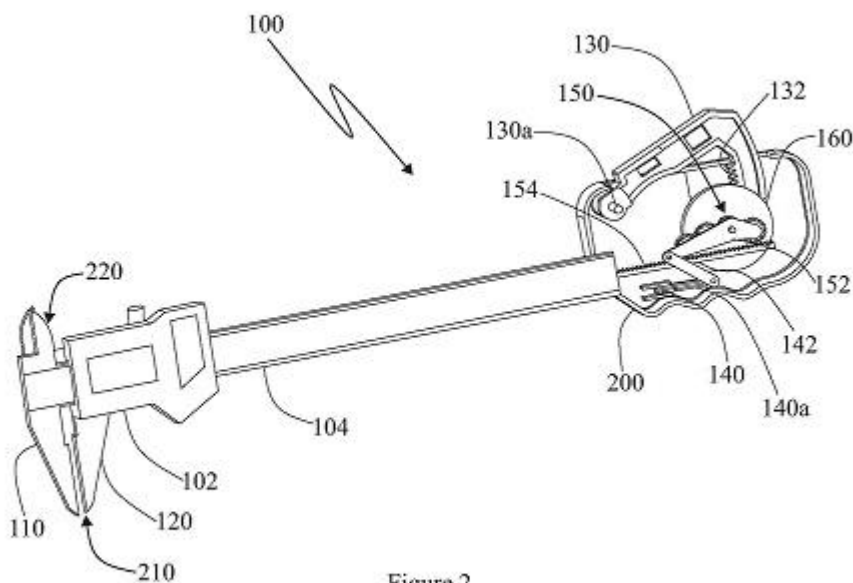


Figure 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821048989 A

(19) INDIA

(22) Date of filing of Application :24/12/2018

(43) Publication Date : 26/06/2020

(54) Title of the invention : HSLA COLD ROLLED STEEL SHEET HAVING EXCELLENT BENDABILITY AND STRETCH FLANGING AND METHOD OF MANUFACTURING THE SAME.

(51) International classification :C22C0038020000,
C21D0008020000,
C22C0038040000,
C22C0038000000,
C22C0038060000

(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

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(72)Name of Inventor :
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2)MR. PAI, Shrikanth
3)MR. MISHRA, Devasish
4)MR. CHANDRA, Ashish
5)MR. GHORUI, Prabhat Kumar

(57) Abstract :

Present invention relates to 650 MPa yield strength level high strength low alloy (HSLA) cold rolled steel sheet with high yield ratio having chemical composition comprising in terms of weight percent: C:0.08-0.1%, Si:0.04% or less, Mn:1.4-1.9%, N:0.006% or less, Al:0.04-0.08 % , P:0.010-0.02 % , Ti:0.04-0.08%, N:0.006% or less, Nb:0.06-0.1%, V:0.01-0.02% and the balance being Fe and other inevitable impurities, whereas ratio of Ti to N is in the range of 7 to 20. The micro structural constituents of said steel consisting of 55-60% of polygonal ferrite with average ferrite grain diameter less than 6 micron, 41-45% of islands of pearlite and/or bainite with average size less than 2 micron and distributed as network at grain boundary of the polygonal ferrite, with balance being carbide and nitride precipitates of alloying elements. Cold rolled HSLA steel has excellent Bendability, stretch flanging and weldability with good hole expansion ratio (HER) of $\geq 35\%$.

No. of Pages : 28 No. of Claims : 9

(54) Title of the invention : MATERIAL HANDLING SYSTEM FOR SCREENING OR FEEDING MATERIALS WITH HIGH SCREENING AND ENERGY EFFICIENCY.

(51) International classification :B07B0001460000,
B07B0001420000,
B07B0001280000,
B07B0001000000,
B07B0013160000

(31) Priority Document No :NA
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(87) 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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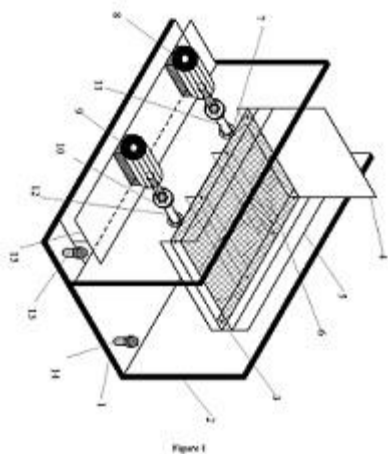
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(57) Abstract :

The invention discloses a material screening/feeding system/machine comprising of a rigid body, screen deck fitted on two eccentric shafts attached independently to two synchronized drive motors controlled through a VFD. Screen deck includes a screen mesh attached to screen frame where in the screen deck is attached to the eccentric shafts near the feed end and discharge end of the screen and the shafts are coupled with individual motors where in the motors are synchronized to provide circular mode of vibration to the screen deck. The base of the screen body at the discharge end is provided with two jack bolts for varying the screen deck inclination (a). In the present invention the inclination angle can be varied from 0 degree to 15 degrees in upward sloping direction. The present invention also provides flexibility to use the screening machine as a feeding machine also with angle inclination set at zero degree. (Figure 1)



No. of Pages : 22 No. of Claims : 15

(54) Title of the invention : FORCED-OIL COOLING VERTICAL SWIVEL INDUCTION WET PULSATING HIGH INTENSITY MAGNETIC SEPARATOR

(51) International classification :B03C 1/025, B03C 1/03, B03C 1/031
 (31) Priority Document No :201710104569.6
 (32) Priority Date :24/02/2017
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2017/076461
 Filing Date :13/03/2017
 (87) International Publication No :WO 2018/152878
 (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 forced-oil cooling vertical swivel induction wet pulsating high intensity magnetic separator which mainly comprises: an excitation system a sorting system a pulsating system a collection system a support system a drive system and a protection system. The excitation system provides a working magnetic field; the sorting system realizes the function of continuous separation of fine tailings; the pulsating system provides a pulsating effect for an ore slurry to disperse minerals in the ore slurry; the collection system has the effect of feeding flushing and collecting fine tailings as well as observing and adjusting a liquid level; the support system is fixedly connected to an on-site foundation and supports the forced-oil cooling vertical swivel induction wet pulsating high intensity magnetic separator; the drive system provides power for the forced-oil cooling vertical swivel induction wet pulsating high intensity magnetic separator to swivel and pulsate; the protective system has the effect of protecting a person and equipment safety. The various parts are combined organically therebetween and may achieve a good index in iron ore sorting non-metal impurity removal non-ferrous ore sorting rare earth ore sorting and like contexts.

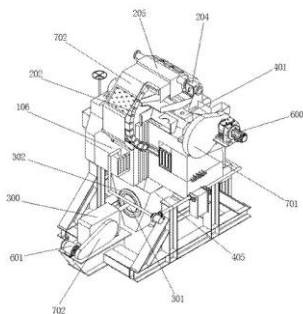


图 1

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : MOLECULAR CONSTRUCTS FOR TREATING REJECTION REACTION IN TRANSPLANTATION

(51) International classification :A61K 39/00, C07K 16/00, C12P 21/00, C07H 21/00, A61P 37/06

(31) Priority Document No :62/213012

(32) Priority Date :01/09/2015

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/CN2016/097783
Filing Date :01/09/2016

(87) International Publication No :WO 2017/036407

(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)CHANG Tse wen
2)CHU Hsing mao
3)LIN Chun yu
4)TIAN Wei Ting
5)DU Li Yun

(57) Abstract :

Various molecular constructs having a targeting element and an effector element and methods for treating various diseases using such molecular constructs are provided.

10A

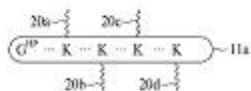


FIG. 1A

No. of Pages : 92 No. of Claims : 14

(54) Title of the invention : PREFABRICATED BATHROOM AND METHODS FOR CONSTRUCTING AND INSTALLING THE SAME

(51) International classification	:E04B0001682000, E04C0002520000, H01L0023522000, H02G0003360000, E04B0002000000	(71)Name of Applicant : 1)Yau Lee Wah Construction Materials (Huizhou) Company Limited Address of Applicant :Hongtian Village, Xinxu Town, Huiyang District, Huizhou City, Guangdong Province,China
(31) Priority Document No	:201811552031.2	(72)Name of Inventor :
(32) Priority Date	:19/12/2018	1)Conrad Tin Cheung WONG
(33) Name of priority country	:China	2)Rosana Wai Man WONG
(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 :

ABSTRACT PREFABRICATED BATHROOM AND METHODS FOR CONSTRUCTING AND INSTALLING THE SAME

Disclosed herewith a prefabricated bathroom and a construction method and an installation method thereof. The prefabricated bathroom includes a bottom unit (11), multiple wall units (12) and a top plate unit (13). One of the wall units (12) is a structural wall (14), which is provided with a recessed top region(141) reserved for later pouring, a middle full-prefabricated structural wall body (142), and a recessed bottomregion(143) reserved for later pouring. Top exposed reserve bars (144) of the prefabricated bathroom of a floor are inserted into the recessed bottomregion(143) of the prefabricated bathroom of a next floor, and connected with bottom exposed reserve bars (146) thereof, so that the prefabricated bathroom of said floor can be connected with that of said next floor through pouring concrete in the recessed top region(141) and the recessed bottomregion(143). (Fig. 1)

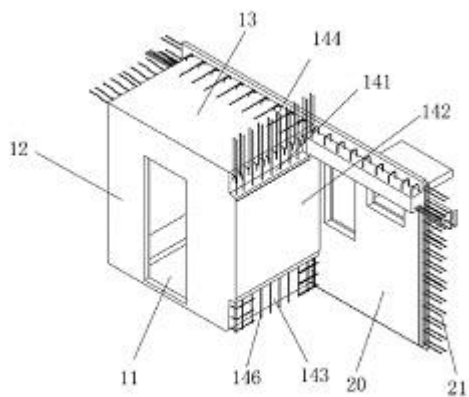


Fig. 1

No. of Pages : 42 No. of Claims : 10

(54) Title of the invention : RING SPINNING MACHINE HAVING DRAFTING SYSTEMS

(51) International classification :B25J0019000000,
D01H0005720000,
D01H0001220000,
D01H0005780000,
D01H0001020000

(31) Priority Document No :102018132951.2

(32) Priority Date :19/12/2018

(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

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(72)Name of Inventor :
1)Harnisch, Alexander
2)Graessle, Herbert
3)Moritz, Sebastian

(57) Abstract :

The invention relates to a ring spinning machine (1) having drafting systems (10), which are formed by roller pairs (21, 22, 23), which rotate at different peripheral speeds and have bottom roller lines (21u, 22u, 23u) running the length of the machine, which are composed of partially ribbed roller segments (34, 48, etc.) and are each equipped with a length compensation device (31). According to the invention, the length compensation devices (31) incorporated in the bottom roller lines (21u, 22u, 23u) are each designed and arranged in such a way that, with respect to the bottom roller lines (21u, 22u, 23u), both length compensation and torque transfer are possible.

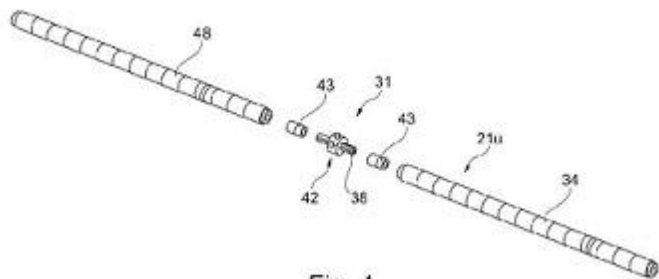


Fig. 4

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

(54) Title of the invention : COMBINED SYSTEM WITH AT LEAST TWO FEEDING UNITS AND AT LEAST ONE WINDING MACHINE

(51) International classification :B65H0067060000,
B65H0067048000,
D01H0009180000,
B65H0067040000,
B65H0054700000

(31) Priority Document No :102018133192.4

(32) Priority Date :20/12/2018

(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

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(72)Name of Inventor :
1)Wasseige, Frank
2)Forche, Torsten
3)Kappenbender, Marc
4)Bungter, Stefan
5)Kreuder, Gerd

(57) Abstract :

The invention concerns a combined system 1 having at least two feeding units 2 which provide bobbins 5 for subsequent further processing, at least one winding machine 3 with a plurality of winding units on which the bobbins 5 are rewound into take-up packages, a transport system with transport means 8 for conveying bobbins 5 or empty tubes 7 arranged on transport plates 12, on which write/read devices are arranged on information carriers which comprise data about the bobbin 5/empty tube 7 to be transported, and a control system which is designed to record the data of the information carriers and to control the transport means 8 according to the data. According to the invention, the combined system 1 comprises the following modules, an insertion module 4 for transporting the bobbins 5 from the feeding unit 2, an ejection module 6 for transporting the empty tubes 7 to the feeding unit 2, a basic module 9 for receiving or delivering the bobbins 5 and empty tubes 7, a drive module 13 that can be integrated into a basic module 9, an intermediate module 10 for connecting the basic modules 9 to each other, a connection module 11 for passing on the bobbins 5 to the winding machine 3 or the empty tubes 7 from the winding machine 3, in which the modules can be combined with each other in such a way that bobbins 5 can be transported from the feeding units 2 to the winding machine 3, of which there is at least one, and empty tubes 7 can be transported from the winding machine 3, of which there is at least one, to the feeding units 2.

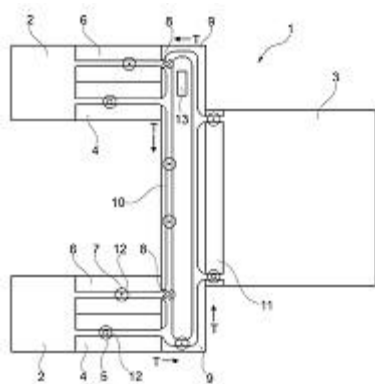


Fig. 1

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

(54) Title of the invention : SYSTEM FOR OBSTACLE DETECTION

(51) International classification :E21B0043000000,
G10K0011178000,
H01Q0003260000,
G07C0005000000,
G01S0013890000

(31) Priority Document No :263848
(32) Priority Date :19/12/2018
(33) Name of priority country :Israel
(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)GABBAY, Rafi
3)KLAR, Gil
4)BAUM, Tomer
5)ATTIAS, Yacov
6)SHLOMOV, Rami

(57) Abstract :

A system and corresponding method are described, for use in alerting on objects in path of vehicle^{ETMs} propagation. The system comprising RF transmission/reception unit comprising at least one phased array antenna unit, and a control unit. The RF transmission/reception unit is configured for periodically scanning a selected region by transmission of interrogating RF signal and collecting reflected RF signals from the selected region and generate based thereon pattern data indicative of the collected RF signal, and for transmitting the pattern data to the control unit. The control unit is configured and operable for processing the pattern data for determining existence of interfering object in path of propagation of a vehicle carrying the system, and for generating alert data indicative of existence of one or more interfering objects.

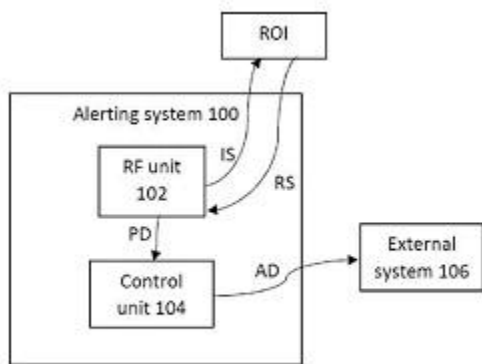


Fig. 1A

No. of Pages : 38 No. of Claims : 48

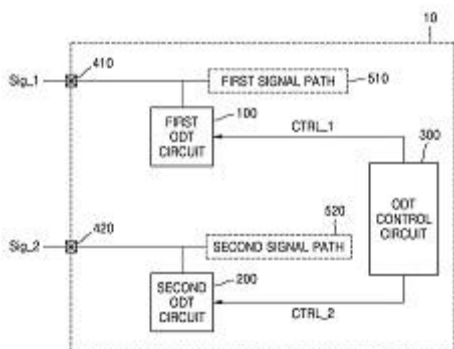
(54) Title of the invention : APPARATUS FOR TRANSMITTING AND RECEIVING A SIGNAL, A METHOD OF OPERATING THE SAME, A MEMORY DEVICE, AND A METHOD OF OPERATING THE MEMORY DEVICE

(51) International classification	:H03K0019000000, H04L0025020000, G11C0007100000, H03K0019017500, G11C0011413000	(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
(31) Priority Document No	:10-2018-0167576	(72)Name of Inventor :
(32) Priority Date	:21/12/2018	1)Changkyo Lee
(33) Name of priority country	:Republic of Korea	2)Dongkeon Lee
(86) International Application No	:NA	3)Jinhoon Jang
Filing Date	:NA	4)Kyungsoo Ha
(87) International Publication No	: NA	5)Kiseok Oh
(61) Patent of Addition to Application Number	:NA	6)Kyungryun Kim
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A signal transmitting and receiving apparatus including: a first on-die termination circuit connected to a first pin through which a first signal is transmitted or received and, when enabled, the first on-die termination circuit is configured to provide a first termination resistance to a signal line connected to the first pin; a second on-die termination circuit connected to a second pin through which a second signal is transmitted or received and, when enabled, the second on-die termination circuit is configured to provide a second termination resistance to a signal line connected to the second pin; and an on-die termination control circuit configured to independently control an enable time and a disable time of each of the first on-die termination circuit and the second on-die termination circuit.

FIG. 1



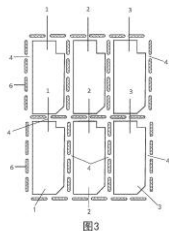
No. of Pages : 43 No. of Claims : 20

(54) Title of the invention : COLOR FILM SUBSTRATE AND MANUFACTURING METHOD THEREFOR AND DISPLAY PANEL AND DISPLAY DEVICE

(51) International classification	:G02F 1/1335	(71)Name of Applicant :
(31) Priority Document No	:201820254565.6	1)BOE TECHNOLOGY GROUP CO., LTD.
(32) Priority Date	:12/02/2018	Address of Applicant :No.10 Jiuxianqiao Rd., Chaoyang
(33) Name of priority country	:China	District Beijing 100015 China
(86) International Application No	:PCT/CN2018/122846	(72)Name of Inventor :
Filing Date	:21/12/2018	1)LI, Hui
(87) International Publication No	:WO 2019/153910	2)WU, Xinyin
(61) Patent of Addition to Application	:NA	3)QIAO, Yong
Number	:NA	4)MA, Yongda
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A color film substrate and a manufacturing method therefor and a display panel and a display device. The color film substrate has a plurality of pixel regions and comprises a base substrate (10) a color resist layer (20) a black matrix (4) and a protrusion part (6). The color resist layer (20) is provided on the base substrate (10) and comprises a plurality of color resists (1 2 3) arranged in an array. The plurality of color resists (1 2 3) has one-to-one correspondence to the plurality of pixel regions respectively. Each of the color resists (1 2 3) has a long side and two adjacent color resists (1 2 3) at least do not overlapped on the long side. The black matrix (4) is provided between any adjacent color resists (1 2 3). The protrusion part (6) is provided on at least a part of the black matrix (4) and surrounds at least a part of the color resists (1 2 3) wherein a surface of the protrusion part (6) distant from the base substrate (10) does not exceed a surface of the color resist (1 2 3) which is adjacent to the protrusion part (6) distant from the base substrate (10).



No. of Pages : 15 No. of Claims : 14

CONTINUED TO PART- 2