# पेटेंट कार्यालय शासकीय जर्नल

# OFFICIAL JOURNAL OF THE PATENT OFFICE

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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 01<sup>st</sup> 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

9<sup>TH</sup> FEBRUARY, 2018

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# THE PATENT OFFICE KOLKATA, 09/02/2018

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	Uttaranchal, Delhi and the Union Territory of			
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	Website: www.ipir	ıdi	a.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 09/02/2018

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	एंटोप हिल डाकघर के समीप,		बौद्धिक संपदा भवन,
	एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037,		सीपी-2, सेक्टर- V, साल्ट लेक सिटी,
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	ई. मेल: Mumbai-patent@nic.in		फ़ैक्स:/Fax: (91)(33) 2367 1988
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	प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र		
	चंडीगढ़		

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, सूचनाए, 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।

The Patent Office Journal No. 06/2018 Dated 09/02/2018

# **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 18<sup>th</sup> 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.

# **CORRIGENDUM (MUMBAI)**

### (1)

The Patent Application No. 1779/MUMNP/2014 was published in the Official Journal No. 27/2015Dated 03/07/2015, errors of published application observed are as follows:

1) Under the applicant's address BASLERSTRASSE 42, CH-4665 OFTRINGEN, SWITZERLAND has been wrongly published as BASLERSTRASSE 42 CH 4665 OFTRINGEN SWITZERLAND. The applicant's correct address is BASLERSTRASSE 42, CH-4665 OFTRINGEN, SWITZERLAND.

2) The second Inventor name is WEITZEL, Hans-Joachim in which hypehn is missing and has been wrongly published as WEITZEL, Hans Joachim

3) The Patent application has been filed with Two Priorities namely: 121546873 Dated 09/02/2012 Country EPO 61/599,021 Dated 15/02/2012 Country : U.S.A However in the Journal, Priority has been published only for First Priority No; 12154687.3 Dated 09/02/2012 Priority Country EPO.

4) In specification, FIG.2b has been included under abstract. However in official Patent Journal, FIG.2b is missing.

#### (2)

The Patent Application No. 201621015269 was published in the Official Journal No. 45/2017 dated 10/11/2017. Please note that an error has crept in the last line of Abstract published as (1020 % on TiO2), as attached hereto, and instead requires correction to (10-20 % on TiO2). A hyphen between numerical 10 and 20 therefore needs to be inserted to make the Abstract meaningful and to align to the content that was originally supplied by the Applicants.

# **CORRIGENDUM (KOLKATA)**

The Patent Application No: 201731040699 was published in official journal No: 05/2018 dated on 02/02/2018. The abstract of this application should be read as :

This invention relates to an electronic circuit for performing any deterministic-logic-gate functions on binary electronicsignals and in particular, this invention relates to an electronic circuit for performing any deterministic-logic- gate functionswherein any logic gate is being built in discrete or in compound form. More particularly, this present invention relates an electronic circuit which operate on one or more binary signals of a certain frequency and produces corresponding output signals in order to function like a combinational and sequential logic circuits of both synchronous and asynchronous type. Furthermore, this invention also relates to the electronic circuit which has the beneficial effects of saving power consumption, reduced size, and having reliability and very high speed of operation.

## **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.201711016880 A
(19) INDIA	
(22) Date of filing of Application :15/05/2017	(43) Publication Date : 09/02/2018

#### (54) Title of the invention : IMMOVABLE PET BOWL AND A METHOD OF FABRICATING THEREOF

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:A47L 11/30 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)PADIA, ASHISH</li> <li>Address of Applicant :B-73, WAZIRUR INDUSTRIAL</li> <li>AREA, NEW DELHI - 110052 Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)PADIA, ASHISH</li> </ul>
(87) International Publication 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 immovable pet bowl. The bowl of present invention is a stainless-steel suction pet bowl. The pet bowl of present invention comprises a suction system such that once fixed to ground or any flat surface, said bowl remains fixed there. The present invention also provides a method of fabricating such stainless-steel suction pet bowl.

No. of Pages : 17 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :31/12/2017

#### (43) Publication Date : 09/02/2018

(51) International classification	:G06Q40/00	(71)Name of Applicant :
(31) Priority Document No	:1	1)Ramcharan
(32) Priority Date	:31/12/2017	Address of Applicant : Village - Jharka, Post Office - Harsauli,
(33) Name of priority country	:India	Tehsil - Kotkasim, District - Alwar Rajasthan India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Ramcharan
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

### (54) Title of the invention : GREEN ENERGY SYSTEM

(57) Abstract :

Some compressors are attached on both sides of rectangular steel tanks and air is stored in the tank at high pressure. This air reached to the turbine at high pressure. Turbine runs by its pressure. Due to turbine generator also runs and electricity produced. This electricity step up by step up transformers. This high volt electricity converted into AC to DC by current changer. This DC current used to run DC motors. DC motors runs compressors. Air is stored in the tank at high pressure by running this compressor and it produces electricity regularly. Two similar tanks used in one unit. High pressure supplied by one tank and second tank remains on standby. Due to this turbine supplied high pressure and runs regular. Due to turbine generator also runs and electricity produced. Such type of two or more units can be used for primary or secondary unit to generate electricity and whole plant can be lightened and this electricity used in house hold and industries. It does not produce pollution and it does not runs on any additional cost. Only initial and maintenance cost is needed for this.

No. of Pages : 21 No. of Claims : 1

(22) Date of filing of Application :15/06/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : INSECT REPELLANT FABRIC

(51) International classification	:D06Q	(71)Name of Applicant :
(51) International elassification	1/12	1)AKASH SINHA
(31) Priority Document No	:NA	Address of Applicant :B-117, 1st Floor, B-Block, Naraina
(32) Priority Date	:NA	Vihar, New Delhi-110028, India Delhi India
(33) Name of priority country	:NA	2)Arpan Joshi
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)AKASH SINHA
(87) International Publication No	: NA	2)Arpan Joshi
(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 insect repellant fabric/clothing treated with microencapsulated DEET (N, N-Diethyl-meta-toluamide). The paddling is done through normal or commercial washing machine. The binding agent used in the process is dimethylol dihydroxyethylene, urea resin. The finished fabric and clothing delivers long lasting insect protection and treated clothing/fabric does not have any order. There is no harmful effect in using the clothing prepared with treated fabric. The finished fabric provides protection form insects including mosquito.

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

## (12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :29/06/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : LOCKING ARRANGEMENT AND METHOD FOR RESTRICTING ENGAGEMENT OF REVERSE GEAR IN VEHICLE POWER TRANSMISSION UNIT

(51) International aloggification	·E16U62/24	(71) Name of Applicant .
(51) International classification	.F10H05/34	(71)Name of Applicant:
(31) Priority Document No	:NA	1)Mahindra & Mahindra Limited
(32) Priority Date	:NA	Address of Applicant :Farm Equipment Sector, Swaraj
(33) Name of priority country	:NA	Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali)
(86) International Application No	:NA	160055 Punjab India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)SUMIT SINGLA
(61) Patent of Addition to Application Number	:NA	2)VIPIN RAI GARG
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

Locking arrangement 100 and method 200 for restricting engagement of reverse driven gear 34j when a range shift lever 26 is in high range position in a vehicle power transmission unit 10 includes moving a speed shift lever 18 in a direction towards a reverse shifter bush 30r enables corresponding portion of speed shift lever 18 to engage corresponding portion of first locking element 102 to restrict the engagement of corresponding portion 18b of speed shift lever 18 with a lever engaging portion L of reverse shifter bush 30r therein to restrict the movement of speed shift lever 18 towards reverse gear position (R) thereby restricting engagement of the reverse driven gear 34j when range shift lever 26 is in high range position (H). The locking arrangement 100 also restricts movement of range shift lever 26 towards high range position (H) when reverse driven gear 34 is in engaged position. Fig. 1

No. of Pages : 99 No. of Claims : 32

#### (19) INDIA

(22) Date of filing of Application :24/01/2018

(43) Publication Date : 09/02/2018

# (54) Title of the invention : QUANTUM TECHNOLOGICAL SOLUTIONS TO PROBLEMS OF HUMAN LIFE AND CONCERNING HUMAN LIFE BY CONCEPTUAL CREATIVE ENERGY METHODOLOGIES

(51) International classification 5	G06N 5/00	(71)Name of Applicant : 1)MR. SWAMI HARDAS
(31) Priority Document No :1	NA	Address of Applicant :S.NO. 50/7, WADGAON SHERI,
(32) Priority Date :1	NA	PUNE-411 014, MAHARASHTRA, INDIA. Maharashtra India
(33) Name of priority country :	NA	(72)Name of Inventor :
(86) International Application No :1	NA	1)MR. SWAMI HARDAS
Filing Date :	NA	
(87) International Publication No :	NA	
(61) Patent of Addition to Application Number :	NA	
Filing Date :	NA	
(62) Divisional to Application Number :	NA	
Filing Date :1	NA	

#### (57) Abstract :

Scientific and technological advancements alone would not solve all problems the human beings face and which exist in many areas of life. It becomes necessary to go beyond physical aspects and work on getting the solutions to such problems on quantum or subtle level. Present invention provides the methodologies of application of conceptual creative energy to various problems of human life and concerning human life. The subtle forms of universal creative energy and conceptual positive energy based on universal and human consciousness respectively are being properly generated and applied in order to get evidential solutions to the problems. The methodologies are simple, affordable and readily available to the people at large.

No. of Pages : 21 No. of Claims : 1

#### (19) INDIA

(22) Date of filing of Application :24/01/2018

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : AN INTELLIGENT FINGERPRINT & VOICE OPERATED FIREARM

(51) International classification :G06I	(71)Name of Applicant :
(51) International classification 21/00	1)RAHUL GANPAT MAPARI
(31) Priority Document No :NA	Address of Applicant :BHONDAWE ORCHID, FLAT NO.
(32) Priority Date :NA	501, B-WING, NEAR RAVET CHAWK BRT STOP, RAVET,
(33) Name of priority country :NA	PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)RAHUL GANPAT MAPARI
(87) International Publication 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 locking device preventing the unauthorized utilization of firearms. The invention provides the trigger locking rod operated on the biometric finger print sensor placed at the trigger or voice recognition module with microphone which can be signal conditioned by the controller board to unlock the trigger only by transmitting relevant biometric data or approved voice to the said block, said data Corresponding with biometric data and voice data digitally stored in the block memory.

No. of Pages : 15 No. of Claims : 10

#### (19) INDIA

(22) Date of filing of Application :24/01/2018

(43) Publication Date : 09/02/2018

(54) Title of the invention : A SMART DIGITAL STAPLER				
(51) International classification	:G06F 21/77 G06F 21/34	<ul> <li>(71)Name of Applicant :</li> <li>1)MADHAV TUKARAM SARODE</li> <li>Address of Applicant :BHONDAWE ORCHID, FLAT NO.</li> <li>501 B-WING NEAR RAVET CHAWK BRT STOP RAVET</li> </ul>		
<ul> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA :NA :NA :NA :NA :NA	PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India 2)RAHUL GANPAT MAPARI (72)Name of Inventor : 1)MADHAV TUKARAM SARODE 2)RAHUL GANPAT MAPARI		

(57) Abstract :

A cover case includes digital display to show the count of staple pins left over inside the staple without opening it. The controller is used to take the sensor signal as an input and take the action to display the pin count on digital display. The sensor is placed closed to the staples to sense the displacement of staple pins in a margin.

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

(22) Date of filing of Application :25/01/2018

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : DEVICE FOR PROVIDING LOAD COMPENSATION AND HARMONIC MITIGATION IN AN ALTERNATING CURRENT POWER SYSTEM

(51) International classification	:H02J 1/04 H02J 3/10	<ul> <li>(71)Name of Applicant :</li> <li>1)Yeshwantrao Chavan College of Engineering, Nagpur Address of Applicant :Wanadongri, Hingna Road, Nagpur 441110, Maharashtra, India. Maharashtra India</li> </ul>
(31) Priority Document No	:NA	2)Meghe Group of Institutions
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)GAWANDE, S.P.
(86) International Application No	:NA	2)PAWAR, Rutuja
Filing Date	:NA	3)NAGPURE, Ravikiran N.
(87) International Publication No	: NA	4)WAGHMARE, Manoj A.
(61) Patent of Addition to Application Number	:NA	5)KADWANE, Sumant G.
Filing Date	:NA	6)MOHARIL, Ravindra M.
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present disclosure pertain to a device for providing load compensation and harmonic mitigation in an alternating current power system. An aspect of the present disclosure provides a device for compensating non-linear critical load in an alternating current power system, the device including a voltage source inverter coupled across a capacitor through any or a combination of a filter resistance and a filter inductance, wherein switching pulses for the voltage source inverter are generated by a hysteresis current tracking controller, wherein the device operates in active power filter mode for generating a current responsible for compensating the non-linear critical load.

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

#### (19) INDIA

(22) Date of filing of Application :25/01/2018

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : ERGONOMIC SEWING WORK STATION			
(51) International classification	:D05B 27/00 D05B 41/00	<ul> <li>(71)Name of Applicant :</li> <li>1)Prof. Somdatta Madhukar Tondre Address of Applicant :11, Vidya Colony, Behind Civil Court, Camp, Amravati Pin Code-444602 Maharashtra India</li> </ul>	
(31) Priority Document No	:NA	(72)Name of Inventor :	
(32) Priority Date	:NA	1)Prof. Somdatta Madhukar Tondre	
(33) Name of priority country	:NA	2)Dr. Tushar R. Deshmukh	
(86) International Application No	:NA		
Filing Date	:NA		
(87) International Publication 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 sewing operator works on two types of Sewing Machine one is Electric Operated Sewing Machine and another is Manually Pedal operated Sewing Machine i.e. without electricity. The electric operated or automatic sewing machine is mostly used in Garment industry where batch production takes place but whereas in the unorganized sectors sewing operators use both manually pedal operated as well as electric operated sewing machine. The workstation of traditional sewing machine is made in such way that the sewing operator constrained to adopt awkward posture, which is the main source of musculoskeletal disorders in Sewing machine operators (back pain, neck pain, arm pain and problem in leg joints). By evaluating the traditional workstation of sewing some of scope for adjustment are Height Adjustment, Table Inclination in height adjustment, Adjusting the angular pedal position and Movement of sewing table according to need of operator. As the operators has to work for 8 to 10 hrs. as per the definition of comfort human being cannot sit in a single posture, the posture of human being changes frequently so by taking in view the comfort condition the workstation should also be adjustable so that operator can work efficiently. Following invention is described in detail with the help of Figure 1 of sheet 1 shows the drawing of the sewing machine, Figure 2 of sheet 2 shows the side view of sewing machine and Figure 3 of sheet 3 shows the front view of sewing machine.

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

#### (19) INDIA

(22) Date of filing of Application :19/01/2018

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : DEVICE FOR MAINTAINING CONSTANT LEVEL OF MATERIAL IN A CONTAINER

(51) International classification	:F16B 31/04	(71)Name of Applicant : 1)VYAVAHARE RAVINDRA TATYASAHEB
(31) Priority Document No	:NA	Address of Applicant :NISHIGANDH, PLOT NO. 25, WEST,
(32) Priority Date	:NA	HARINAYAN PARK, SABALE NAGAR, ISBAVI,
(33) Name of priority country	:NA	PANDHARPUR- 413 304, MAHARASHTRA, INDIA.
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	2)VYAVAHARE PRITI RAVINDRA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)VYAVAHARE RAVINDRA TATYASAHEB
Filing Date	:NA	2)VYAVAHARE PRITI RAVINDRA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

The invention consists of a device to maintain the level of the material in a container irrespective of the quantity or mass of the material it contains. This device is useful in the applications where it is desirable to maintain the constant level of the material in a container even though partial material is being removed from the container or added to the container. The device is also useful on the shop floor to maintain the level of jobs in the container constant irrespective of number of jobs left in the container thus improving the ease to the operator resulting into more ergonomic and comfortable conditions. The device can handle any material including solid, semi-solid, liquid, powder, metal and non-metal. Device can be used to handle different materials by entering value of mass of the material required to fully fill the container to the micro-controller. Device is fully automatic and uses load cell, position sensor, electrical drive, micro-controller or programmable logic controller and keypad with LCD display. It uses moving platform or bottom controlled to vary volume of the container. Container can have foldable walls in addition to moving platform to vary volume.

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

#### (19) INDIA

(22) Date of filing of Application :20/01/2018

# (54) Title of the invention : NANOPARTICLE- ANTICANCEROUS DRUG NANOFORMULATIONS AUNPS-FA-VBLS AND CSNPS -VBLS-FA

(51) International classification	:A61K 36/00 A61K 31/00	<ul> <li>(71)Name of Applicant :</li> <li>1)Dipali Bharat Nagaonkar Address of Applicant :Nanotechnology lab, Department of biotechnology, SGB Amravati University Amravati-444602</li> </ul>
(31) Priority Document No	:NA	Maharashtra. Maharashtra India
(32) Priority Date	:NA	2)Prof. Mahendra Rai
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Dipali Bharat Nagaonkar
Filing Date	:NA	2)Prof. Mahendra Rai
(87) International Publication 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 nanoparticles can hold single or multiple drugs onto their surface and deliver them to the target site with the help of targeting agent. The present invention provides AuNPs-FA-VBLS and CSNPs-VBLS-FA, which consists of biosynthetic nanoparticles of gold and chitosan, drug vinblastine sulfate and folic acid as targeting agent. The nanoparticles synthesized by using biological agent and surface decorated with VBLS and FA. Biologically synthesized nanoparticles exert high bioactivities as compared to physiochemically synthesized nanoparticles.

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

#### (19) INDIA

(22) Date of filing of Application :22/01/2018

#### (54) Title of the invention : CAFFEINE FREE ORGANIC FROM CASSIA TORA.

#### (57) Abstract :

Coffee is world famous drink. However, its consumption if questioned for its caffine containts. Even commercial products available worldwide has some caffeine contents ranging from 2.5 to 12.5 per cent. Cassia tora Linn (family: Leguminosae) is a foetid annual shrub. This is very common weed throught India, Ceylon and tropics generally. The literature survey revealed that Cassia tora contains anthraquinonoid glycosides, phenolic compounds, steroids. Pharmacological activities reported are hepatoprotective, anti-inflammatory, antigenotoxic, hypolipidemic, spasmogenic and antinociceptive, antiproliferative, immunostimulatory, hypotensive, purgative, antidiabetic, estrogenic and antiestrogenic, antiulcer, antioxidant, antifungal, antishigellosis, anthelmintic, antimutagenic, antibacterial and antiplasmodial. Besides the medicinal properties, cassia tora is being used as substitute to coffee. The proposed patent aims at Caffeine free Organic coffee from Cassia tora.

No. of Pages : 7 No. of Claims : 6

(19) INDIA

(22) Date of filing of Application :22/01/2018

#### (54) Title of the invention : MINI WIND TURBINE FOR LIGHTING OF HIGHWAYS

(51) International classification	:F02C 3/04 F02C 9/22	<ul> <li>(71)Name of Applicant :</li> <li>1)TAPOBRATA DEY</li> <li>Address of Applicant :D. Y. PATIL COLLEGE OF</li> <li>ENGINEERING, D. Y. PATIL EDUCATIONAL COMPLEX,</li> </ul>
(31) Priority Document No	:NA	SECTOR 29, NIGDIPRADHIKARAN, AKURDI, PUNE-411
(32) Priority Date	:NA	044, MAHARASHTRA, INDIA. Maharashtra India
(33) Name of priority country	:NA	2)SHYLESHA V CHANNAPATTANA
(86) International Application No	:NA	3)SHARMA SHUBHAM DEVENDER
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)TAPOBRATA DEY
(61) Patent of Addition to Application Number	:NA	2)SHYLESHA V CHANNAPATTANA
Filing Date	:NA	3)SHARMA SHUBHAM DEVENDER
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

The purpose of present invention is to light up highways by using wind turbine installed on vertical axis using wind energy generated due to motion of vehicles. The pillars used to install wind turbines also meet the dual purpose as a divider between opposite ways. The highway lighting system purely depends upon wind energy source which is abundant, renewable, pollution free and eco-friendly.

No. of Pages : 13 No. of Claims : 8

(22) Date of filing of Application :01/05/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A PROCESS FOR PREPARATION OF INSTANT READY TO MAKE POTATO HALWA.

(51) International classification :A23	L (71)Name of Applicant :
7/122	1)SARDARKRUSHINAGAR DANTIWADA
(31) Priority Document No :NA	AGRICULTURE UNIVERSITY
(32) Priority Date :NA	Address of Applicant :SARDARKRUSHINAGAR
(33) Name of priority country :NA	DANTIWADA AGRICULTURE UNIVERSITY
(86) International Application No :NA	(SDAU),SARDARKRUSHINAGAR, TA. DANTIWADA,
Filing Date :NA	(DISTT. BANASKANTHA) GUJARAT, INDIA-385506. Gujarat
(87) International Publication No : NA	India
(61) Patent of Addition to Application Number :NA	(72)Name of Inventor :
Filing Date :NA	1)MR. NIRAV D. JOSHI
(62) Divisional to Application Number :NA	2)DR. KANCHAN V. MOGHA
Filing Date :NA	3)MS. VIRAJ A. CHAUDHARI

(57) Abstract :

The process of making instant ready to make potato Halwa is a new process, which provides a value added product to prevents colossal losses, gives good nutritious value that has enhanced taste, which saves time with authentic taste of halwa and which is very easy to prepare as only hot water is needed to make the product instantly.

No. of Pages : 15 No. of Claims : 23

#### (19) INDIA

(22) Date of filing of Application :29/11/2017

### (43) Publication Date : 09/02/2018

(54) Title of the invention : FOLDABLE AIRCRAFT FRAME			
(51) International classification :F 57	<ul> <li>16H (71)Name of Applicant :</li> <li>7/00 1)SHARMA, Shivanand</li> </ul>		
(31) Priority Document No :N	Address of Applicant :126, Saraswati Nagar, University Road,		
(32) Priority Date :N	A Thatipur, Gwalior- 474011, Madhya Pradesh, India. Madhya		
(33) Name of priority country :N	IA Pradesh India		
(86) International Application No :N	IA (72)Name of Inventor :		
Filing Date :N	IA 1)SHARMA, Shivanand		
(87) International Publication No : N	NA 2)SHARMA, Umanand		
(61) Patent of Addition to Application Number :N	IA		
Filing Date :N	IA		
(62) Divisional to Application Number :N	IA		
Filing Date :N	IA		

(57) Abstract :

The present disclosure relates to an aircraft comprising a frame that includes a plurality of tubes, where the plurality of tubes can include a first tube and a second tube that are fastened with each other using at least one fork plate. The fork plate can have a first end and a second end such that the fork plate is, at its first end, pivotally fixed to the first tube, and where the fork plate pivotally engages to the second tube at a point that is intermediate between the first end and the second end. Furthermore, the fork plate can include a fork plate hole at its second end that is used for engaging a fastening member when the fork plate hole is in alignment with a second tube hole that is configured in the second tube so as to hold the second tube in extended position.

No. of Pages : 20 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :23/01/2018

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : THE METHOD OF INNOVATIVE AYURVEDIC PAIN MANAGEMENT TECHNIQUE.

(51) International classification:A61K 31/00(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No Filing Date:NA(87) International Publication No (61) Patent of Addition to Application Number:NAFiling Date:NAState:NAState:NAState:NAState:NAState:NAState:NAState:NAState:NAState:NAState:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)UDAY VIJAY KULKARNI Address of Applicant :H7 727, KEDAR LOKPURAM, GA ALVARES ROAD, THANE-400 610, MAHARASHTRA, INDIA. Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>1)UDAY VIJAY KULKARNI</li> </ul>
Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	

(57) Abstract :

Viddha is such a wonderful therapy and instant pain management tool that it could be used for almost every type of pain. Yet its not done in each and every case every time. Viddha is useful in muscular, rheumatic, visceral and sometime in vain pain also. Its extensively practiced for muscular, skeletal, artistic, migraines, ligament; tendons or even fascistic pains. It is so effective in spasms and inflamed joints, cellulites etc. that it is choice of patients over painkillers. Yet in some conditions and some patients it is better to avoid it.

No. of Pages : 14 No. of Claims : 4

(22) Date of filing of Application :30/01/2018

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A VARIABLE SPEED WIND ENERGY CONVERSION SYSTEM WITH COMMON SYNCHRONIZATION UNIT

:H025 10/12 (51) International classification 27/14 H02S 10/20	<ul> <li>(71)Name of Applicant :</li> <li>1)Yeshwantrao Chavan College of Engineering, Nagpur Address of Applicant :Wanadongri, Hingna Road, Nagpur</li> <li>441110, Maharashtra, India. Maharashtra India</li> <li>2)Meghe Group of Institutions</li> <li>(72)Name of Inventor :</li> </ul>
(31) Priority Document No :NA	1)GAWANDE, S.P.
(32) Priority Date :NA	2)PORATE, Dhanashree K.
(33) Name of priority country :NA	3)WAGHMARE, Manoj A.
(86) International Application No :NA	4)MOHARIL, Ravindra M.
Filing Date :NA	5)KADWANE, Sumant G.
(87) International Publication No : NA	6)PORATE, Kishor B.
(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 pertain to a variable speed wind energy conversion system comprising a synchronizing circuit. In an embodiment, the proposed system includes a wind turbine coupled with shaft of a generator to generate a variable frequency voltage, a back-to-back converter, coupled between the generator and a grid, to convert the variable frequency voltage to a constant grid voltage, wherein the back-to-back converter comprises a generator-side converter and a grid-side converter, and a common synchronization unit to analyze a grid-side voltage angle for control of both the generator-side converter and the grid-side converter, wherein the grid-side voltage angle is fed to a generator-side converter control unit and a grid-side converter control unit to control the generator-side converter and the grid-side converter respectively.

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

#### (19) INDIA

(22) Date of filing of Application :26/05/2017

#### (54) Title of the invention : DIFFERENTLY DESIGNED BOILER WITH CONTROLLED PUMPING OF WATER.

(51) International classification	:F22D 5/36 F24H 1/08 F22D 7/08	<ul> <li>(71)Name of Applicant :</li> <li>1)VIRENDRA.A. GANDHI Address of Applicant :302 SWAPNALOK APTS.,</li> <li>ATHWALINES , PARLEPOINTS, SURAT-395007, GUJARAT, INDIA. Gujarat India</li> <li>(72)Name of Inventor :</li> </ul>
(31) Priority Document No	:NA	1)VIRENDRA A. GANDHI
(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 second law of thermodynamics states that in an Isolated system effect Entropy always increases. This invention targets Entropy by designing a completely different Boiler. The actual Boiler is fitted placed on the Top inside of the cylinder as shown in Fig. 5. Heater are placed below the complete Boiler assembly & has two Pronged function first is to Heat the complete Boiler assembly. But also a solid cooper rod as shown in Fig 5. Because of this cooper rod getting heated it cancels out any Entropy effects keeps the entire cylinder heated. This is a Proven Technology increases the efficiency of Boiler Twice than empirically standards set of Heat & Power • Ratios.

No. of Pages : 18 No. of Claims : 17

# (22) Date of filing of Application :05/01/2018

(43) Publication Date : 09/02/2018

# (54) Title of the invention : FPGA BASED HARDWARE SYSTEM FOR IMPLEMENTATION OF COMPLEX-ORDER DYNAMICAL SYSTEMS.

(51) International classification	:G06F 17/00 G06F 19/00	<ul> <li>(71)Name of Applicant :</li> <li>1)MS. DIVYA SHAH</li> <li>Address of Applicant :211-RAMRAO ADIK INSTITUTE OF</li> <li>TECHNOLOGY, PAD. DR. D. Y. PATIL VIDYAPEETH,</li> <li>SECTOR-7, PHASE- I, NERUL, NAVI MUMBAI-400 706,</li> </ul>
(31) Priority Document No	:NA	MAHARASHTRA, INDIA. Maharashtra India
(32) Priority Date	:NA	2)DR. MUKESH D. PATIL
(33) Name of priority country	:NA	3)DR. VISHWESH A. VYAWAHARE
(86) International Application No	:NA	4)MR. ROHIT CHAURASIYA
Filing Date	:NA	5)MS. KHUSHBOO PICHHODE
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)MS. DIVYA SHAH
Filing Date	:NA	2)DR. MUKESH D. PATIL
(62) Divisional to Application Number	:NA	3)DR. VISHWESH A. VYAWAHARE
Filing Date	:NA	4)MR. ROHIT CHAURASIYA
C C		5)MS. KHUSHBOO PICHHODE

#### (57) Abstract :

Mathematical modelling and control using Complex-order derivatives, the differentiation and integration with orders as complex numbers, is a recent field with huge research potential. A complex-order derivative is an extension of conventional integer-order and the more recent fractional-order derivatives. The complex-order models, that is, linear and nonlinear differential equations involving complex-order derivatives, provide a compact and faithful representation to many real-world systems. The complex-order controllers are found to create robust closed-loop structures. Though the theoretical research on complex-order systems is progressing at a fast pace, there are no hardware setups available for real-time implementation of a complex-order system or controller. The proposed invention is a dedicated, compact and stand-alone hardware setup for implementation of complex-order dynamical systems. It is capable of implementing dynamical systems with complex-order and conjugated-order derivative operators using four different types of discrete approximations. The setup can be used for hardware-in-loop simulation. The invention is easy to use and is reconfigurable with the complex derivative orders as well as the system structures can be changed by the user. The system is easy to interface with a computer and other output devices. The invention is a unique hardware setup which will be very helpful for students and researchers working in the area of modelling and control of complex-order systems.

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

(22) Date of filing of Application :12/12/2017

(21) Application No.201721044512 A

(43) Publication Date : 09/02/2018

(54) Title of the invention : LAPTOP WITH SAFETY STORAGE.

(51) International classification :G06F	(71)Name of Applicant :
(51) International elassification 21/00	1)AMRUTA HARISH HINGMIRE
(31) Priority Document No :NA	Address of Applicant :FLAT NO. B-604, TEERTH TOWERS,
(32) Priority Date :NA	BEHIND MERCEDES BENZ SHOWROOM, BANER, PUNE-
(33) Name of priority country :NA	411 021, MAHARASHTRA, INDIA. Maharashtra India
(86) International Application No :NA	2)SINJU N SALIYA
Filing Date :NA	(72)Name of Inventor :
(87) International Publication No : NA	1)AMRUTA HARISH HINGMIRE
(61) Patent of Addition to Application Number :NA	2)SINJU N SALIYA
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

The invention discloses Laptop with safety storage which is intended to store items like credit/debit cards, flash drives, card reader, wireless adapter, wireless earphone etc. in the bottom part of laptop casing. According to the present invention, the storage slot is used to hold tiny gadgets and our personal belongings which are small in size and used frequently with the laptop. The main intension of the invention is to find the better and safe place to keep such important things with us. The access to the storage slot is provided with security which requires authentication to unlock it. So, the storage resembles an portable electronic safe which holds our tiny belongings. Electronic lock uses a keypad to-enter a numerical code or password for authentication.

No. of Pages : 8 No. of Claims : 7

#### (19) INDIA

(22) Date of filing of Application :01/10/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : SYSTEM FOR CO-ORDINATION OF LOGICAL SEQUENCE OF INSTRUCTIONS ACROSS ELECTRONIC DEVICES USING VISUAL PROGRAMMING AND WIRELESS COMMUNICATION

(51) International classification	:H04W 28/18 H04W 92/00	<ul> <li>(71)Name of Applicant :</li> <li>1)GUNAKAR PRIVATE LIMITED Address of Applicant :office 107, 1st Floor, R-Square Building, Survey, No. 116/7/1, Near Maimangeshkar Hospital,</li> </ul>
(31) Priority Document No	:NA	Warje, Pune 411052, Maharashtra India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Amol Subhash Palshikar
(86) International Application No	:NA	2)Girish Ramesh Mujumdar
Filing Date	:NA	
(87) International Publication 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 embodies an Orchestration Engine, a system comprising the same and a method comprising its use for providing a technical output across two or more than two programmable objects selected from the group consisting of electronic devices, virtual objects and cloud based services in response to user specified logic. The orchestration engine is deployed on a mobile computer or a tablet computer or a laptop computer or a desktop computer or a wired or wireless electronic device in the system or on a server computer connected via internet. The said method and the Orchestration Engine is capable of supporting extensibility in order to expand support for similar common interaction methods to newer electronic devices via a plug-in framework by specifying the communication protocol of the new element and its capabilities in a descriptive way via a markup language; and is provided along with a library of drag and drop Visual Programming Language steps required for providing executable computer program steps for specifying a user specified logic by computer language illiterate person.

No. of Pages : 38 No. of Claims : 13

#### (19) INDIA

(22) Date of filing of Application :30/06/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : FISH MEAL ENRICHED WITH ANIMAL PROTEIN.

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(22) Drivity Document No</li></ul>	:A23L 17/10 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ENCILY REYMEND MARTIN Address of Applicant :DEPARTMENT OF ZOOLOGY, DR.</li> </ul>
(32) Priority Date	:NA	BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
(33) Name of priority country	INA	AUKANGABAD-431004, MAHAKASHIKA, INDIA.
(80) International Application No	INA INA	(72)Nome of Inventor
(87) International Publication No	$\cdot NA$	(72)Name of inventor: 1)FNCH V REVMEND MARTIN
(61) Patent of Addition to Application Number	·NA	2)SIDHARTH D PACARE
Filing Date	·NA	2)SIDHARTH D. I AGARE
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In of the most important aspect of the present invention it is provided that fish meal with protein sourced from the animals, more particularly mollusc; the effect of the animal proteins containing fish meal is easy digestibility, which stimulates faster growth; the plant proteins which is hard to digest thus causing problems and also retards growth; The effect of the an improved fish meal is studied with the effect on the growth of the diet II on the fish Puntius ticto and Rasbora daniconius;

No. of Pages : 13 No. of Claims : 8

#### (19) INDIA

(22) Date of filing of Application :31/01/2018

#### (54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING VEHICLES AT TRAFFIC SIGNS

:G08G 1/00 (51) International classification (51) G08G 5/00 G08G 3/00	<ul> <li>(71)Name of Applicant :</li> <li>1)Yeshwantrao Chavan College of Engineering, Nagpur Address of Applicant :Wanadongri, Hingna Road, Nagpur</li> <li>441110, Maharashtra, India. Maharashtra India</li> <li>2)Meghe Group of Institutions</li> <li>(72)Name of Inventor :</li> </ul>
(31) Priority Document No :NA	1)GAWANDE, Prachi Dhanraj
(32) Priority Date :NA	2)KALE, Yogesh Subhashrao
(33) Name of priority country :NA	3)KHEDKAR, Himanshu
(86) International Application No :NA	
Filing Date :NA	
(87) International Publication 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 controlling speed of a vehicle. The system 100 can include a traffic sign feature detection module 202 that detects one or more features of a traffic sign by implementing Harr cascade training of one or more digital images of the traffic sign, wherein the one or more digital images of the traffic sign are obtained from an image capturing device, and a feature based speed limit recognition module 204 that extracts any or a combination of numeric, alphabetical and alphanumeric features by implementing machine learning for comparison of any or a combination of the numeric, alphabetical and alphanumeric features with a pre-trained data, wherein output of the feature based speed limit recognition module 204 is passed to a printed circuit board (PCB) to assess drivability of the vehicle.

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

#### (19) INDIA

(22) Date of filing of Application :01/02/2018

#### (54) Title of the invention : HOT FOIL STAMPING MACHINE FOR PROFILE STAMPING.

(51) International classification	:B41K 3/14 B41K 3/16	<ul> <li>(71)Name of Applicant :</li> <li>1)Technoshell Automations Pvt Ltd Address of Applicant :G-49,, MIDC Ambad, Nashik, Maharashtra 422010, INDIA Maharashtra India</li> </ul>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Nikhil Baste
(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 :

Our invention is a hot stamping apparatus which broadly comprises of Stand(1), XZ Axis Assembly(2), Heater Assembly(3), Foil Unwinding Assembly(4), Foil Rewinding Assembly(5), Foil Guide Assembly(6), Fixture with Tooling(7), Part to be stamped(8), Foil Path(9), Foil Guide Arm(10) cylindrical elastomer assembly(11) and other parts and accompany accessories. Our invention comprises of a high temperature cylindrical elastomer having movement in two axis, which is pressed on a located article with foil between them. High pressure is used to transfer the metalizing/ink from the foil which is heated at a very high temperature, on the article. Using interpolation of two axis based on CNC movement of stamping cylindrical elastomer, the profile of the article to be stamped will be traced by stamping cylindrical elastomer. It can hot stamp Profile shape articles in a single stroke, which were conventionally not possible to stamp.

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

#### (19) INDIA

(22) Date of filing of Application :06/09/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : MULTI-THERAPY SYSTEM AND METHOD THEREFORE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:A61H 33/00 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)UJWAL HEALTH SOLUTIONS PVT. LTD. Address of Applicant :Unit No. 8, Ground Floor, Anant Apartments, Off Law College Road, Opp Maruti Showroom, Erandwane, Pune- 411004, Maharashtra, India. Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>1)KHOMANE, Tushar Sudhakar</li> </ul>
(87) International Publication No (61) Patent of Addition to Application Number	: NA •NA	
Filing Date	:NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present disclosure relates to a system that provides a combination of therapies to one or more areas of a musculoskeletal system (human body), the therapies including combinations of an oxygen therapy, an aromatherapy, a chromotherapy (light and color therapy), a sound therapy and medical nutrition therapy (MNT). A device operatively coupled with an oxygen concentrator and configured to deliver recreational oxygen, said concentrator being configured to receive ambient air and separate nitrogen from the ambient air using a molecular filter so as to obtain the recreational oxygen.

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

### (19) INDIA

(22) Date of filing of Application :08/02/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : SYSTEM AND METHOD FOR ENABLING ACCESS OF A WI-FI NETWORK COUPLED WITH A TRASH CAN

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number</li> </ul>	:H04W 84/00 :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ThinkScream Infomedia Pvt. Ltd. Address of Applicant :A 102 Shubham Center, Cardinal Gracious Road. Chakala. Andheri (E). Mumbai -400099, India Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>1)Raj Mahadev Desai</li> <li>2)Pratik Jugalkishor Agarwal</li> </ul>
Filing Date:(62) Divisional to Application Number:Filing Date:	:NA :NA :NA	

(57) Abstract :

The present subject matter provides a system and method for enabling access of a wi-fi network coupled with a trash can is disclosed. The system may comprise a first IR sensor 203, a second IR sensor 204, a wi-fi circuitry 205 and a display device 202 coupled with the wi-fi circuitry. The first IR sensor 203 and the second IR sensor 204 are located at an upper inner surface of the trash can. The first IR sensor 203 is configured to detect a trash in the trash can, wherein the first IR sensor 203 further transmits an activation signal to the wi-fi circuitry. The wi-fi circuitry is configured to generate a password based upon the receipt of the activation signal, wherein the password generated is valid for a predetermined time period. The password is rendered on the display device 202 to be accessible for the user.

No. of Pages : 16 No. of Claims : 8

#### (19) INDIA

(22) Date of filing of Application :11/01/2018

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A METHOD AND SYSTEM FOR MANUFACTURING DOT ICE-CREAM

(/1)Name of Applicant :
1)DILIPKUMAR DEVJIBHAI DONGA
Address of Applicant :6, VIJAY NAGAR SOCIETY-1,
KATARGAM DARWAJA, SURAT-395 004, INDIA. Gujarat
India
(72)Name of Inventor :
1)DILIPKUMAR DEVJIBHAI DONGA

#### (57) Abstract :

An apparatus for manufacturing dot ice-cream is disclosed. The apparatus includes an input vessel for adding molten ice-cream, a plurality of holes in input vessel and a rotational member to rotate input vessel. When the rotational member along with input vessel rotated, centrifugal force of input vessel generates droplets of ice-cream. The apparatus includes spray unit to spray oily substances on drop of ice-cream. When drop-down of ice-cream droplets, ice-cream is encapsulated with oily substances. The drops of coated ice-cream are received by a collection chamber. The collection chamber filled with liquefied nitrogen. The dot ice-cream and liquid nitrogen are separated from collection chamber. Separated liquefied nitrogen is reused for further process.

No. of Pages : 12 No. of Claims : 10
### (19) INDIA

(22) Date of filing of Application :15/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : SOLAR ENERGY COLLECTION SYSTEM

	<b>F2</b> 4 <b>T</b>	
(51) International classification	F24J	(71)Name of Applicant :
(-),	2/00	1)RODE SHRIPAD ASHOK
(31) Priority Document No :	NA	Address of Applicant : A/P- JAWALA, TAL-JAMKHED,
(32) Priority Date :	NA	DIST AHMEDNAGAR - 413 201, MAHARASHTRA, INDIA.
(33) Name of priority country :	NA	Maharashtra India
(86) International Application No :	NA	2)TALAPE ATUL VASANT
Filing Date :	NA	(72)Name of Inventor :
(87) International Publication No :	NA NA	1)RODE SHRIPAD ASHOK
(61) Patent of Addition to Application Number :	NA	2)TALAPE ATUL VASANT
Filing Date :	NA	
(62) Divisional to Application Number :	NA	
Filing Date :	NA	

### (57) Abstract :

Solar Energy Collection System The present invention relates to the field of solar energy collection system, and more particularly to a solar system using Fresnel lens for collecting solar energy.

### (19) INDIA

(22) Date of filing of Application :14/03/2017

(54) Title of the invention : IMPROVED METHOD FOR CASTOR OIL COATING ON UREA TO INCREASE NITROGEN USE EFFICIENCY.

(51) International classification	:C07C 275/04 C07C 275/44	(71)Name of Applicant : 1)SARDARKRUSHINAGAR DANTIWADA AGRICULTURAL UNIVERSITY Address of Applicant :SARDARKRUSHINAGAR
(31) Priority Document No	:NA	DANTIWADA AGRICULTURAL UNIVERSITY (SDAU),
(32) Priority Date	:NA	SARDARKRUSHINAGAR, TA. DANTIWADA, DIST.
(33) Name of priority country	:NA	BANASKANTHA-385506, GUJARAT, INDIA. Gujarat India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. SHAH SARVESH KUMAR
(87) International Publication No	: NA	2)DR. DESAI AMRUTBHAI GHEMARBHAI
(61) Patent of Addition to Application Number	:NA	3)DR. ACHARYA SURESH
Filing Date	:NA	4)PROF.(DR.) PATEL ASHOK AMBALAL
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for castor oil coating on urea to increase nitrogen use efficiency. It is difficult to use castor oil as coating material on urea due to its high viscosity. The castor oil is heated to the smoke point and then mixed with urea in the ratio of 0.2 to 1.5%. The castor oil and urea are shaken gently for 5-10 minutes. The castor oil coated urea is allowed to cool down to room temperature. The present method of castor oil coating is simple, pragmatic and commercially scalable and improves Nitrogen Use Efficiency with retention of free flowing habit with no formation of clumps even on prolonged storage of over one year.

### (19) INDIA

(22) Date of filing of Application :09/10/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : AJAY

	:H02H	(71)Name of Applicant :
(51) Internetional algoritization	7/06	1)AJAY KULSHRESHTHA
(51) International classification	H02P	Address of Applicant :C/O. RAJESH KULSHRESHTHA,
	3/00	BEHIND ANAMAYA ASHRAM, RAMNAGAR CIVIL LINES,
(31) Priority Document No	:NA	DATI-475 661, M.P., INDIA. Madhya Pradesh India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)AJAY KULSHRESHTHA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication 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 pyramid shape of dam will distribute the water pressure of river horizontally. This will help the dam to stop the pressure and keep structure intact at huge pressure flow also. The huge pressure divereted from the module dam will flow from the pipeline to the power generator to generate electricity. 2. The prism shape of dam will not stop the flow of water at one place as it happen in traditional dam. The access water can flow from above without damaging the structure. During raining season also the structure will remain intact and will keep functioning. 3. The stop wall will use the horizontal distribute water pressure and flow the water in pipes.
 The piping structure will benefit in creating the water pressure to generate electricity. The input pipes at different level will use the pressure of water at different water level. The connection of all piping structure creates many input and one output to the power generator. This design will be beneficial for creating huge water pressure to generate electricity.

(22) Date of filing of Application :31/01/2018

### (54) Title of the invention : ADVANCED AND INTEGRATED SECURITY SYSTEM FOR TWO WHEELERS

### (57) Abstract :

Security system of vehicle is a great concern now a day due to the vehicle thett reporting all over the global level. The advanced vehicle security system is available only in the four wheelers that too comes with high cost; as of two wheelers concerned no security system available to prevent vehicle from theft. As increasing the cost of security system for two wheelers will affect the production cost of two wheelers so this project aims at providing solution economically. The proposed integrated security system immobilizes the chain drive by locking the locknut actuated by rack and pinion provided and also the RFID tag used to identify the authorized person of the vehicle. If duplicate RFID tag was scanned, the microcontroller sends the signals to the GSM interface which in turn send SMS to the authorized person as well as sends the signal to DC motor. The DC motor provided will actuate the rack and pinion which locks the chain drive by lock nut and vehicle will not move unless the chain drive was broken.

(19) INDIA

(22) Date of filing of Application :31/01/2018

### (54) Title of the invention : COLLAR TYPE GRIPPER ATTACHED BURNISHING TOOL

(51) International classification	:B23P9/00;	(71)Name of Applicant :
	B23P9/02	1)SURESH KUMAR. M
(31) Priority Document No	:NA	Address of Applicant :SNS COLLEGE OF TECHNOLOGY,
(32) Priority Date	:NA	SARAVANAMPATTI(PO), COIMBATORE, TAMILNADU -
(33) Name of priority country	:NA	641 035, INDIA Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)VALLESELVAN.K.S
(87) International Publication No	: NA	2)DHEENATHAYALAN. C
(61) Patent of Addition to Application Number	:NA	3)SURESHKUMAR. M
Filing Date	:NA	4)TAMILSELVAM. P
(62) Divisional to Application Number	:NA	5)CHINNASAMY. C
Filing Date	:NA	

### (57) Abstract :

Abstract COLLAR TYPE GRIPPER ATTACHED BURNISHING TOOL Burnishing is a cold working surface treatment process in which plastic detormation of surface irregularities occurs by exerting pressure through a very hard and a very smooth roller or ball on a surface to generate a uniform and work-hardened surface. This treatment occurs generally after the machining process. On the account of its high productivity, it also saves more on production costs than other conventional processes such as super finishing, honing and grinding. Moreover, the burnished surface has a high wear resistance and better fatigue life. In this attempt, we studied the working and design of the burnishing tool to ensure the increase of performance and tool life. We studied the working of a normal multi point roller type burnishing tool which was exclusively used in most of the small scale industries producing pump parts. This is an exclusive attempt to improve the tool life. The Burnishing tool life can be improved by attaching a ring in the column of the tool. The ring tends to support the rolls in line with the cage. We conducted various trial based experiments to streamline the possibilities to a proper method of increasing tool life.

### (19) INDIA

(22) Date of filing of Application :31/01/2018

### (54) Title of the invention : BIODIESEL WITH BIO SYNTHESIZED NANO PARTICLES AS FUEL FOR DIESEL ENGINE

### (57) Abstract :

A method of synthesizing zinc oxide nano sized particles using green plant extracts and their use along with biodiesel for improving the fuel efficiency of diesel engine is described. The fuel composition comprising of methyl ester extracted from jatropha raw oil along with specific concentration of nano-sized zinc oxide nanoparticles is introduced as fuel into a system comprising a diesel engine works on internal combustion engine principle. The inclusion of nano-sized particles enhances the fuel properties such as cetane number, heating value and flash point. The presence of nanoparticles in biodiesel improves the brake thermal efficiency of diesel engine. The exhaust emissions of diesel engine such as carbon monoxide, unburnt hydrocarbons and smoke opacity is substantially minimized by the addition of synthesized zinc oxide nanoparticles.

### (19) INDIA

(22) Date of filing of Application :31/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A REUSABLE HAZARDOUS MATERIAL SHIPPING TRAY OR PALLET

(51) International classification	:B65D19/0026;	(71)Name of Applicant :
()	B65D2519/00029;	1)Dr. PalanisamySivaprakash
(31) Priority Document No	:NA	Address of Applicant :House No.6 A, Thanneer Pandal Street,
(32) Priority Date	:NA	Coimbatore, Tamil Nadu - 641 046. Tamil Nadu India
(33) Name of priority country	:NA	2)Dr. Sivaprakash Kanchana
(86) International Application No	:NA	3)Mr. Ponnusamy Venkataramanan
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. PalanisamySivaprakash
(61) Patent of Addition to Application Number	:NA	2)Dr. Sivaprakash Kanchana
Filing Date	:NA	3)Mr. Ponnusamy Venkataramanan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A shipping tray or pallet an improved portable pallet structure forsupporting material carrying containers including a confined chamber having a plurality of access passages separate from the confined chamber to accommodate lifting members and including a material pewious support platform mounted above the confined chamber whereby materials spilled from containers supported thereby are collected in the confined chamber.

### (19) INDIA

(22) Date of filing of Application :30/01/2018

### (43) Publication Date : 09/02/2018

### (54) Title of the invention : AUTOMATED MULTI PURPOSE VULCANIZING MACHINE UTILIZING PNEUMATIC SYSTEM

(51) International classification	:B29C33/02;	(71)Name of Applicant :
(51) International classification	B29C35/02;	1)Mr.S.RAVI
(31) Priority Document No	:NA	Address of Applicant :SR1 RAMAKRISHNA
(32) Priority Date	:NA	ENGINEERING COLLEGE, VATTAMALAIPALAYAM, 650
(33) Name of priority country	:NA	COLONY (PO) COIMBATORE .641022, Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)SRINATH <sup>~</sup> P
(87) International Publication 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 AUTOMATED MULTI PURPOSE VULCANIZING MACHINE UTILIZING PNEUMATIC SYSTEM Living in an Era of Automation, it has become a necessity to adapt to the modern automated systems than using conventional systems. The vulcanizing machine that is used to rectify the puncture of tyres is conventional and the process of vulcanizing is quite tedious. The firing process causes toxic gases white . heating the rubber. The main aim is to automate the vulcanizing machine by using pneumatic cylinder and electromagnetic valve. The firing is replaced by a heating coil and while the rubber is sufficiently heated the patch rubber is added by the action of the piston rod activated by the electromagnetic valves. Altering the pressure and temperature of the pneumatic machine, the vulcanizing of rubber mats could also be done.

### (19) INDIA

(22) Date of filing of Application :30/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : AUTOMATIC SHOE SHINING WITH WEIGHING MACHINE UNDER TRIZ MERGING PRINCIPLE

(51) International classification :A47L23/02	(71)Name of Applicant :
(31) Priority Document No :NA	1)Mr.S,RAVI
(32) Priority Date :NA	Address of Applicant :SRI RAMAKRISHNA
(33) Name of priority country :NA	ENGINEERING OLLEGE, VATTAMALAIPALAYAM, G.G.O
(86) International Application No :NA	COLONY (PO) COIMBATORE -64 022. Tamil Nadu India
Filing Date :NA	(72)Name of Inventor :
(87) International Publication No : NA	1)DINESHKUMARR
(61) Patent of Addition to Application Number :NA	
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

### (57) Abstract :

ABSTRACT AUTOMATIC SHOE SHINING WITH WEIGHING MACHINE UNDER TRIZ MERGING PRINCIPLE The concept consists of a shoe shining mechanism and floor cleaning attachments. The machine is controlled by a mechatronic system using load cells and interfacing unit with a microprocessor. The machine operates with sequencing processes as step-1 is for indicating the weight, step-2 for cleaning the one shoe and the step-3 is for cleaning the second shoe. The sequences of operations are carried out based on the programming and coding. The innovation in this machine is provided for physically challenged people as compared with existing concepts.

(22) Date of filing of Application :30/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : PERSONAL MOBILITY AID VEHICLE FOR DISABLED PEOPLE AND A METHOD FOR OPERATING THE SAME

(51) International classification	:B62D61/06, B62D61/08	(71)Name of Applicant : 1)CHANDRASEKARAN, Kumar
(31) Priority Document No	:NA	Address of Applicant : Associate Professor, EEE Department,
(32) Priority Date	:NA	Bannari Amman Institute of Technology, Sathyamangalam,
(33) Name of priority country	:NA	Tamilnadu - 638401, India Tamil Nadu India
(86) International Application No	:NA	2)SELVARAJ, Jaisiva
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)CHANDRASEKARAN, Kumar
(61) Patent of Addition to Application Number	:NA	2)SELVARAJ, Jaisiva
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of trace line based automated personal mobility aid vehicle for physically challenged people. The Personal mobility aid vehicle for disabled people comprising a driving arrangement and said driving arrangement consists inbuilt power backup means, a control unit and brushless DC motors and plurality of sensing means to sense the trace lines.and drive the vehicle.

### (19) INDIA

(22) Date of filing of Application :30/01/2018

(43) Publication Date : 09/02/2018

(54) Title of the invention : STORAGE FACILITY STRUCTURE FOR HAZARDOUS WASTE OR TOXIC WASTE CONTAINMENT

(51) International classification	:B09B1/00,	(71)Name of Applicant :
(31) International classification	E02D31/02	1)Dr. PALANISAMY SIVAPRAKASH
(31) Priority Document No	:NA	Address of Applicant :NO. 6 A, THANNEER PANDAL
(32) Priority Date	:NA	STREET, COIMBATORE - 641 046 TAMIL NADU, INDIA
(33) Name of priority country	:NA	Tamil Nadu India
(86) International Application No	:NA	2)Dr. SIVAPRAKASH KANCHANA
Filing Date	:NA	3)Dr. SHANMUGAM KRISHNARAJ
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. PALANISAMY SIVAPRAKASH
Filing Date	:NA	2)Dr. SIVAPRAKASH KANCHANA
(62) Divisional to Application Number	:NA	3)Dr. SHANMUGAM KRISHNARAJ
Filing Date	:NA	

#### (57) Abstract :

Abstract A toxic waste storage facility is formed of a plurality of contiguous storage cells Primary waste containers are placed in prefabricated canisters and sealed with a curable fluid sealant, such as grout. The canisters are then stacked in an interlocking manner to form a stable integrated structure. The containers are not, however, permanently attached to one another, so that individual containers are able to shift relative to one another in response to earth movements. In this way, the integrity of the individual container is maintained and the sealed wastes protected even when the integrated structure as a whole experiences significant stresses from earth movement

(19) INDIA

(22) Date of filing of Application :31/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : SIGNAL RESHAPING FOR HIGH DYNAMIC RANGE SIGNALS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:H04N19/46,H04N19/117,H04N19/186 :62/200,797 :04/08/2015 :U.S.A. :PCT/US2016/045362 :03/08/2016 :WO 2017/024042 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)DOLBY LABORATORIES LICENSING</li> <li>CORPORATION <ul> <li>Address of Applicant :1275 Market Street San Francisco,</li> <li>California 94103 U.S.A.</li> </ul> </li> <li>(72)Name of Inventor : <ul> <li>1)ATKINS, Robin</li> <li>2)YIN, Peng</li> <li>3)LU, Taoran</li> <li>4)PYTLARZ, Jaclyn Anne</li> </ul> </li> </ul>

(57) Abstract :

In a method to improve backwards compatibility when decoding high dynamic range images coded in a wide color gamut (WCG) space which may not be compatible with legacy color spaces hue and/or saturation values of images in an image database are computed for both a legacy color space (say YCbCr gamma) and a preferred WCG color space (say IPT PQ). Based on a cost function a reshaped color space is computed so that the distance between the hue values in the legacy color space and rotated hue values in the preferred color space is minimized. HDR images are coded in the reshaped color space. Legacy devices can still decode standard dynamic range images assuming they are coded in the legacy color space while updated devices can use color reshaping information to decode HDR images in the preferred color space at full dynamic range.

### (19) INDIA

(22) Date of filing of Application :01/08/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : 3-(4-(2-AMINO-6-(SUBSTITUTED PHENYL)-5,6DIHYDRO-4H-1,3-THIAZIN-4-YL)PHENYLIMINO)-1-((DIMETHYL AMINO)METHYL)INDOLIN-2-ONES

(51) International classification :0	C07D513/10	(71)Name of Applicant :
(31) Priority Document No :1	NA	1)Dr.Theivendren Panneerselvam
(32) Priority Date :1	NA	Address of Applicant :23/57 Pillayar Koil Street,
(33) Name of priority country :1	NA	Kuppinayakan Patti, Bodinayakanur-625 513 Theni District,
(86) International Application No :1	NA	Tamilnadu, India Tamil Nadu India
Filing Date :1	NA	(72)Name of Inventor :
(87) International Publication No :	NA	1)Dr.Theivendren Panneerselvam
(61) Patent of Addition to Application Number :1	NA	2)Dr.Govindaraj Saravanan
Filing Date :1	NA	3)Dr.Veerasamy Alagarsamy
(62) Divisional to Application Number :1	NA	4)Mr.Pandurangan Dineshkumar
Filing Date :1	NA	5)Dr.Jesupillai Muthuchellam

(57) Abstract :

The present application relates to a novel series of 3-(4-(2-amino-6-(substitutedphenyl)-5,6-dihydro-4H-1,3-thiazin-4-yl)phenylimino)-1-((dimethylamino)methyl)indolin-2-ones and pharmaceutically acceptable salts thereof, and further relates to a method of using such compounds, and process of preparing such compound.

### (19) INDIA

(22) Date of filing of Application :12/07/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : SUBSTITUTED INDOLO[3,2-B]QUINOXALINE COMPOUNDS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> </ul>	:C07D 241/00 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Theivendren Panneerselvam Address of Applicant :International Research Centre, Kalasalingam University, Anand nagar, Krishnankoil-626126, Tamilnadu, India. Tamil Nadu India</li> <li>(72)Name of Inventor :</li> </ul>
<ul> <li>(60) International Application No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number</li> <li>Filing Data</li> </ul>	:NA :NA :NA	1)Theivendren Panneerselvam 2)Kunjiappan Selvaraj 3)Sivakumar Arumugam
<ul><li>(62) Divisional to Application Number</li><li>Filing Date</li></ul>	:NA :NA :NA	4)Shriniyas D. Joshi 5)Sankarganesh Arunachalam

(57) Abstract :

The present application relates to a series of substituted indolo[3,2-b]quinoxaline compounds. The present application is further directed to use of such compounds as antitubercular drugs. The present application also describes a method of making such compounds and pharmaceutical compositions comprising such compounds.

(22) Date of filing of Application :15/09/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : 2-SUBSTITUTED BENZYLIDENE-4-PHENYL-3A,4-DIHYDRO-2H-THIAZOLO[3,2-A]QUINAZOLINE-1,5-DIONE

(51) International classification	:A61K31/18; A61K31/341; A61K31/381;	<ul> <li>(71)Name of Applicant :</li> <li>1)Theivendren Panneerselvam</li> <li>Address of Applicant :23/57 Pillayar Koil Street,</li> </ul>
(31) Priority Document No	:NA	Kuppinayakan Patti, Bodinayakanur-625 513 Theni District,
(32) Priority Date	:NA	Tamilnadu, India Tamil Nadu India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Dr.T. Panneerselvam
Filing Date	:NA	2)Dr. R. Suresh
(87) International Publication No	: NA	3)Dr. P. Parasuraman
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to a novel series of 2-substituted benzylidene-4-phenyl-3a,4-dihydro-2H-thiazolo[3,2-a]quinazoline-1,5-dione and pharmaceutically acceptable salts thereof, and further relates to a method of using such compounds, and process of preparing such compound.

### (19) INDIA

(22) Date of filing of Application :11/12/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF PIMAVANSERIN

	·A61K31/4468·	(71)Name of Applicant ·
(51) International classification	A61K9/16;	1)DIVI™S LABORATORIES LTD.,
(31) Priority Document No	:NA	Address of Applicant :1-72 / 23 (P) / DIVIS / 303 ; DIVI
(32) Priority Date	:NA	TOWERS ; CYBERHILLS, GACHIBOWLI ; HYDERABAD -
(33) Name of priority country	:NA	500032, TELANGANA, INDIA Telangana India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Satchandra Kiran Divi
(87) International Publication No	: NA	2)Nageswara Rao Bolneni
(61) Patent of Addition to Application Number	:NA	3)MNV Sastry
Filing Date	:NA	4)Ramesh Banala
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an improved process for the preparation of N-(4-fluorobenzyl)-N-(l-methy!piperidinyl)-N-(4-(2-methylpropyloxy)-phenylmethyl carbamide (Formula 1), also known as Pimavanserin, with excellent yield and high degree of chemical purity.

### (19) INDIA

(22) Date of filing of Application :11/12/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : PROCESS FOR THE PREPARATION OF MONO PHENYL TENOFOVIR

(51) International algorithmation	.CO7E0/65/1	(71)Nome of Ameliaant
(51) International classification	:CU/F9/6361	(71)Name of Applicant:
(31) Priority Document No	:NA	1)DIVI™S LABORATORIES LTD.,
(32) Priority Date	:NA	Address of Applicant :1-72/23(P)/DIVIS/303;DIVI
(33) Name of priority country	:NA	TOWERS;CYBERHILLS, GACHIBOWLI; HYDERABAD -
(86) International Application No	:NA	500032, TELANGANA, INDIA Telangana India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Satchandra Kiran Divi
(61) Patent of Addition to Application Number	:NA	2)Nageswara Rao Bolneni
Filing Date	:NA	3)Gopinarayana Bodla
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

### (57) Abstract :

A new method for preparing mono phenyl tenofovir (Formula-I) using diphenyl phosphonate is provided.

### (19) INDIA

(22) Date of filing of Application :08/12/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : 4-BENZYLIDENE-1-PHENYL-3-(SUBSTITUTED STYRYL)-1H-PYRAZOL-5(4H)-ONE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> </ul>	:A61K31/425; A61K31/426 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)THEIVENDREN PANNEERSELVAM Address of Applicant :23/57 Pillayar Koil Street,</li> <li>Kuppinayakan Patti, Bodinayakanur-625 513 Theni District,</li> <li>Tamilnadu, India Karnataka India</li> <li>(72)Name of Inventor :</li> </ul>
Filing Date	:NA	1)Dr.T. Panneerselvam
(87) International Publication No	: NA	2)Dr. Sachin Chandayarkar
(61) Patent of Addition to Application Number	:NA	3)Mr.Deepak Shilkar
Filing Date	·NA	4)Mr. Joel Fernandes
<ul><li>(62) Divisional to Application Number</li><li>Filing Date</li></ul>	:NA :NA	5)Miss. Borges E Soares Giselle Amanda

(57) Abstract :

The present application relates to a novel series of 4-benzylidene-1-phenyl-3-(substituted styryl)-1H-pyrazol-5(4H)-one and pharmaceutically acceptable salts thereof, and further relates to a method of using such compounds, and process of preparing such compound.

(12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :04/01/2017

### (54) Title of the invention : ORAL DISPERSIBLE FILM COMPOSITIONS PREPARED BY TWIN-SCREW HOT MELT EXTRUSION TECHNOLOGY

(51) International classification :A611 9/00	(71)Name of Applicant : 1)JUBELN LIFESCIENCES PVT. LTD.
(31) Priority Document No :NA	Address of Applicant :Jubeln lifesciences Pvt. Ltd., D-503,
(32) Priority Date :NA	Amoda Vallmark, Dodakamanhalli, Banerghatta Road, Bangalore
(33) Name of priority country :NA	560083, India Karnataka India
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)KATARIA, Vishal
(87) International Publication No : NA	2)MORAVKAR, Kailas Kalicharan
(61) Patent of Addition to Application Number :NA	3)SEN, Swikruti
Filing Date :NA	4)YADAV, Geeta Umesh
(62) Divisional to Application Number :NA	5)AMIN, Purnima Dhanraj
Filing Date :NA	

(57) Abstract :

Pharmaceutical and nutraceutical composition in the form of oral dispersible films (ODFs) using twin-screw hot melt extrusion was described. In the present disclosure, there is provided an oral dispersible film composition comprising: (a) maltodextrin; and (b) hydroxypropyl cellulose, wherein the weight ratio of maltodextrin to hydroxypropyl cellulose is in the range of 1:1 3:1. The prepared films of pharmaceutical and nutraceutical composition are uniform in film thickness, have excellent physical attributes and can be directly packed after cutting.

## (22) Date of filing of Application :04/01/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : TOPICAL PREPARATIONS OF CARBOMER BASED GEL AND EMULGEL USING TWIN-SCREW HOT MELT EXTRUSION TECHNOLOGY

(51) International classification	:A61K 9/00	(71)Name of Applicant : 1)JUBELN LIFESCIENCES PVT. LTD.
(31) Priority Document No	:NA	Address of Applicant :Jubeln lifesciences Pvt. Ltd., D-503,
(32) Priority Date	:NA	Amoda Vallmark, Dodakamanhalli, Banerghatta Road, Bangalore
(33) Name of priority country	:NA	560083, India Karnataka India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)KATARIA, Vishal
(87) International Publication No	: NA	2)YADAV, Geeta Umesh
(61) Patent of Addition to Application Number	:NA	3)SHAH, Devanshi Sandip
Filing Date	:NA	4)MORAVKAR, Kailas Kalicharan
(62) Divisional to Application Number	:NA	5)AMIN, Purnima Dhanraj
Filing Date	:NA	

(57) Abstract :

The present disclosure describes an extruded formulation comprising: (a) at least one gelling agent; (b) at least one neutralizer; and (c) water, wherein the at least one gelling agent to the at least one neutralizer weight ratio is in the range of 1:0.1 1:20. The disclosure also describes a process of preparation of said formulation.

### (19) INDIA

(22) Date of filing of Application :31/01/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : STRAW REINFORCED MINERAL BOARD AND PREPARATION METHOD THEREOF

(51) International classification	:E04B1/3555	(71)Name of Applicant :
(31) Priority Document No	:NA	1)KUMARAGURU COLLEGE OF TECHNOLOGY
(32) Priority Date	:NA	Address of Applicant :Post box no. 2034 Chinnavedampatti,
(33) Name of priority country	:NA	Coimbatore Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)PASUPATHY SANGAREDDY ALAGIRISAMY
(87) International Publication No	: NA	2)RAMESHKUMAR MADHAPPAN
(61) Patent of Addition to Application Number	:NA	3)RANJITH KUMAR PALANISAMY
Filing Date	:NA	4)SAKTHIVEL MUNIRAJAN
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates an eco-friendly reinforced mineral board from straw of a tubular plant such as rice or wheat and preparation method of an eco-friendly reinforced mineral board. According to the present invention the rice straw is treated with Sodium hydroxide (NaOH) for the removal of lignocelluloses content. Sodium hydroxide (NaOH) treatment is a chemical treatment which is cost effective and time saving process. Hot Water Treatment (HWT) is another cost-effective pretreatment process for the removal of lignocelluloses from rice straw fibre and it is eco- friendly process as compared to others. The mixture of pre treated dried rice straw, bonding material and accelerator is fixed in a mould of suitable shape and size which is determined according to the end use. The mould so prepared is kept in a compression molding machine and mineral boards are prepared. The mould is allowed to cool and the mineral boards are removed from the compression molding machine and dried. FIGURE -1

### (19) INDIA

(22) Date of filing of Application :17/01/2018

(21) Application No.201831001876 A

(54) Title of the invention : POWER CYCLONIC HYDRO TURBINE		
16 (71)Name of Applicant :		
1)PURNA BAHADUR KHARKATHOKI		
Address of Applicant :M.N.GHOSH		
ROAD, RANIGANJ, DIST-BURDWAN, WEST BENGAL, 713347		
West Bengal		
2)VINOD VISHWAKARMA		
(72)Name of Inventor :		
1)PURNA BAHADUR KHARKATHOKI		
2)VINOD VISHWAKARMA		

(57) Abstract :

Power Cyclonic Hydro turbine is modified water turbine comprising water turbine promotional equipment mainly consisting of (a) fixed blades (b) rotating blades (c) ball bearing (d) shaft (e) gear box (f) Brake (g) coupling (h) dynamo. (I) base frame (k) Chain Drive and power canal management of volume of water force.

(22) Date of filing of Application :17/01/2018

(43) Publication Date : 09/02/2018

(54) Title of the invention : BISHWA CYCLE ENGINE		
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:F02B29/04 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)VINOD VISHWAKARMA Address of Applicant :M.N.GHOSH</li> <li>ROAD,RANIGANJ,DIST-BURDWAN,WEST</li> <li>BENGAL,713347,INDIA</li> <li>2)PURNA BAHADUR KHARKATHOKI</li> </ul>
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	: NA :NA :NA :NA :NA	(72)Name of Inventor : 1)VINOD VISHWAKARMA 2)PURNA BAHADUR KHARKATHOKI

(57) Abstract :

Bishwa Cycle Engine is a fry to solve fuel crises. This engine will give 25% more energy from same fuel-consumption than previous process. It will give 80% thermal efficiency. This engine has lower fuel consumption and release lower amount of carbon dioxide in atmosphere.

(22) Date of filing of Application :17/01/2018

### (43) Publication Date : 09/02/2018

### (54) Title of the invention : A NOVEL ISOLATION METHOD OF ADIPOSE-DERIVED ADULT STEM CELLS WITH SODIUM TAUROCHOLIC ACID BILE SALT

(51) International classification	:C12N5/071	(71)Name of Applicant :
(31) Priority Document No	:NA	1)MEERUT INSTITUTE OF ENGINEERING AND
(32) Priority Date	:NA	TECHNOLOGY
(33) Name of priority country	:NA	Address of Applicant :N.H. 58, DELHI-ROORKEE
(86) International Application No	:NA	HIGHWAY, BAGHPAT BYPASS ROAD CROSSING,
Filing Date	:NA	MEERUT, UTTAR PRADESH-250005
(87) International Publication No	: NA	2)ELIZA CHAKRABORTY
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)ELIZA CHAKRABORTY
(62) Divisional to Application Number	:NA	2)HARSHAL KUMAR
Filing Date	:NA	3)DEEPAK KUMAR SINGH

(57) Abstract :

The present invention relates to an isolation method of Adipose derived adult stem cell. More particularly, the present invention relates to an isolation method of Adipose-derived adult stem cell by treating the adipose tissue taken from rat by a bile salt in an optimized combination. This invention also relates to an isolation method of Adipose-derived adult stem cell wherein the above said collected tissue is 1 hr. 20min (every 20 min repeated gentle pipetting three times). Furthermore this invention also relates to an isolation method of Adipose-derived adult stem cell having a beneficial effect of reliability, the cost is low, the safety is high, and the application prospect is good.

### (19) INDIA

(22) Date of filing of Application :19/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : SURGICAL SPLINT FOR PEDIATRIC MANDIBULAR FRACTURE WITH SPLIT BUTTON DESIGN

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li><li>(33) Name of priority country</li></ul>	:A61F5/058 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SIKSHA 'O' ANUSANDHAN (DEEMED TO BE UNIVERSITY), BHUBANESWAR Address of Applicant :DEPARTMENT OF PEDODONTICS</li> </ul>
(86) International Application No	:NA	AND PREVENTIVE DENTISTRY, INSTITUTE OF DENTAL
(87) International Publication No	:NA	BE UNIVERSITY), BHUBANESWAR-751003, INDIA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. ANTARMAYEE PANIGRAHI
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to an oral appliance which can be used as a splint for treating mandibular fractures in pediatric patients. This invention relates to the surgical splint for pediatric mandibular fracture comprising of a U- shaped acrylic splint with the two legs ends including holes running around the bite width consisting of labial and lingual acrylic flanges which are reinforced with 21 gauge stainless steel wire frame work; wherein the splint includes a button of acrylic at center to facilitate winding of wire around for closed reduction and semi rigid fixation. Furthermore this invention relates to a new design of surgical splint with addition of acrylic button at center line for better centricity, additional strength and stability. This innovation relates to the design of the appliance will provide effective and cost efficient treatment procedure for the closed reduction of the fracture of pediatric mandible.

### (19) INDIA

(22) Date of filing of Application :19/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : PARABOLIC PYRAMIDAL HORN ANTENNA

(57) Abstract :

This invention is about designing a parabolic pyramidal horn antenna (PPHA) in such a way that it achieves higher values of gain than typical pyramidal horn antenna with equal aperture area. The parabolic tapering concentrates radiating field in the propagating direction in great extent so as to have higher aperture efficiency with pencil beam radiating characteristics. Because of the smaller values of beamwidth in both the planes (E and H). such antenna can be used in wireless power transfer applications where there is a need to concentrate electromagnetic waves at a singular point for efficient energy extraction. The PPHA is fabricated for the bandwidth from 2.2 to 3.3 GHz. The VSWR is less than 1.55 over the entire frequency with antenna efficiency of 96 %. The gain at the 2.45 GHz is 20:4 dB.

### (19) INDIA

(22) Date of filing of Application :21/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : SYNERGISTIC COMBINATION TO PERIODONTAL POCKET

(51) International classification	:C08G18/08	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Vachaspati Dubey
(32) Priority Date	:NA	Address of Applicant :Narayan Institute of pharmacy, Narayan
(33) Name of priority country	:NA	medical college and hospital Sasaram, Bihar India
(86) International Application No	:NA	2)Dr. Akansha Singh
Filing Date	:NA	3)Dr. Ruchika Narayan
(87) International Publication No	: NA	4)Dr. Gaurav Tiwari
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Vachaspati Dubey
(62) Divisional to Application Number	:NA	2)Dr. Rashmi Kumari
Filing Date	:NA	

### (57)Abstract :

Present invention emerges as the development of mucoadhesive, biodegradable gel formulations of hydrophilic polymers for combined drugs delivery of antibacterial API to periodontal pocket. Polymeric content concentration is directly proportional to mechanical properties of developed periodontal drug delivery systems. Rheological behavior as a function of polymer concentration, temperature and presence of drug(s), which possess the appropriate properties to serve as an intra-pocket drug(s) delivery system for periodontal therapy. Drugs release from all formulations was non-diffusion controlled and inversely proportional to polymer content. Antibacterial studies revealed the synergistic effect of antibacterial drugs when studied in combined form as the zone of inhibition is more in comparision of the zone of inhibition of drugs alone. This novelty of enhanced synergistic effect of both API's in combination form shows greater therapeutic efficacy of developed mucoadhesive biodegradable dosage form.

### (19) INDIA

(22) Date of filing of Application :21/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : COATED MODIFIED RELEASE PHARMACEUTICAL DOSAGE FORM

(51) International classification	:A61P9/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Vachaspati Dubey
(32) Priority Date	:NA	Address of Applicant :Narayan Institute of pharmacy, Narayan
(33) Name of priority country	:NA	medical college and hospital Sasaram, Bihar India
(86) International Application No	:NA	2)Dr. Ruchika Narayan
Filing Date	:NA	3)Dr. Akansha Singh
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Vachaspati Dubey
Filing Date	:NA	2)Dr. Rashmi Kumari
(62) Divisional to Application Number	:NA	3)Bhuneshwar dutta tripathi
Filing Date	:NA	

#### (57) Abstract :

The present invention relates to development of coated pharmaceutical dosage forms of extended release of HMG CoA reductase inhibitor and immediate release of Antihyperlipidemic drug using different polymers by wet granulation techniques for the management hypercholesterolemia and hyperlipidaemia. Invention is aimed at controlling the absolute oral bioavailability and high hepatic extraction of HMG CoA reductase inhibitor due to its consistent first-pass uptake into the liver after oral dosing. The main aim is to minimize the liver extraction ratio by controlling the release of drug from the dosage form. Granules were characterized by Fourier transformed Infrared Spectroscopy (FT-IR), Differential Scanning Calorimetry (DSC), Powder X-Ray Diffractometry (XRD) as well as by content uniformity, in vitro dissolution studies and release kinetics. Selected granular system was compressed by direct compression. Compressed disc were evaluated for drugs content, weight variation, friability, hardness, thickness, % assay and in-vitro dissolution studies. Prepared disc were then coated and evaluated for drugs content, weight variation, friability, hardness, thickness, % assay and in-vitro dissolution studies. Cellulose polymers, MCC and HPMC K4M, showed better control over drug(s) release. Formulated disc gave satisfactory results for various physicochemical evaluations like weight variation, content uniformity and in vitro drug release. Developed dosage form best fitted to korsmeyer peppas and first order model rate kinetics. Formulations are optimized on the basis of IR/CR release of drugs. In vitro study showed that optimized disc formulation released immediate dose of antihyperlipidemic drug and then sustained release of HMG CoA reductase inhibitor for more than twelve hours. Thus the objective of the work is to formulate a coated disc dosage form of antihyperlipidemic and HMG CoA reductase inhibitor to minimize hepatic extraction has been achieved with success.

(19) INDIA

(22) Date of filing of Application :25/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : BIOPSY INSTRUMENT (SELR-CUTTUNG AND SELF- RETRIEVAL)

	A (1D1/2/7	
(51) International classification	:A61B1/26/	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SIKSHA 'O' ANUSANDHAN (DEEMED TO BE
(32) Priority Date	:NA	UNIVERSITY, BHUBANESWAR
(33) Name of priority country	:NA	Address of Applicant : DEPARTMENT OF ORAL AND
(86) International Application No	:NA	MAXILLOFACIAL PATHOLOGY & ORAL MICROBIOLOGY
Filing Date	:NA	INSTITUTE OF DENTAL SCIENCES (IDS), SIKSHA 'O'
(87) International Publication No	: NA	ANUSANDHAN (DEEMED TO BE UNIVERSITY)
(61) Patent of Addition to Application Number	:NA	BHUBANESWAR-751003, INDIA Orissa
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)PROF.(DR.) NEETA MOHANTY
Filing Date	:NA	

(57) Abstract :

This invention relates to a biopsy instrument which is self-cutting, self-retrieval of the tissue. This invention relates to a biopsy instrument which includes a punch cutting element with an inner surface, an outer surface and a cutting edge along the bottom surface. This invention also defines a hollow space between the inner surfaces where the desired tissue is punched. Furthermore, this invention also relates to a new design of the instrument where the punch cutting blades ensure more accurate and precised tissue cut ranging from 3mm to 8mm of depth. The biopsy instrument also includes a horizontal cutting element which is placed along the inner surface of the punch cutting element and is configured to detach the final biopsy tissue from the underlying tissue after the desired depth of the tissue is punched with minimum tissue architectural damage. This design of the instrument also includes small led lights for better illumination of the biopsy site. After retrieval, the tissue is transferred directly to formal saline for preservation by the downward movement of a piston which gives a downward force to the tissue. This invention also provides an instrument which is precise, efficient, user friendly.

### (19) INDIA

(22) Date of filing of Application :25/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : METHOD OF DETECTING RHIZOME ROT IN TURMERIC CROP AND ICT KIT FOR EARLY DIAGNOSIS OF THE SAME

	CO 13 10 2 10 0 2	
(51) International classification	:G01N27/327	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SIKSHA 'O' ANUSANDHAN (DEEMED TO BE
(32) Priority Date	:NA	UNIVERSITY, BHUBANESWAR
(33) Name of priority country	:NA	Address of Applicant :CENTER OF BIOTECHNOLIGY
(86) International Application No	:NA	(CBT)SCHOOL OF PHARMACEUTICAL SCIENCES SIKSHA
Filing Date	:NA	'O' ANUSANDHAN (DEEMED TO BE UNIVERSITY,
(87) International Publication No	: NA	BHUBANESWAR-751003 INDIA Orissa
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. SHIKHA SINGH
(62) Divisional to Application Number	:NA	2)MRS. MONALISA RAY
Filing Date	:NA	3)DR. K. GOPINATH ACHARY

(57) Abstract :

The present invention relates to method of detecting rhizome rot in turmeric crop and a rapid detection kit for early diagnosis of rhizome rot infection in turmeric plants. More particularly, the present invention relates to rapid immune chromatographic test of fungal antigenic proteins in turmeric plants indicative of rhizome rot caused by Pythium aphanidermatum fungal species, which can detect rhizome rot infection in turmeric crop at very early stages even when the symptoms are not so visible and reliability and application prospect is promising.

### (19) INDIA

(22) Date of filing of Application :25/01/2018

#### (43) Publication Date : 09/02/2018

# (54) Title of the invention : A SYSTEM OF AUTOMATED IRRIGATION, SUCTION AND EVACUATION OF THE CHEMICAL DEBRIS FROM THE ROOT CANAL SYSTEM OF THE TOOTH

		(71)Name of Applicant :
(51) International classification	:A61N1/40	1)siksha 'o' anusandhan (deemed to be university),
(31) Priority Document No	:NA	bhubaneswar
(32) Priority Date	:NA	Address of Applicant :SEMICONDUCTOR RESEARCH
(33) Name of priority country	:NA	LAB DEPARTMENT OF ELECTRONICS COMMUNICATION
(86) International Application No	:NA	ENGINEERING ITER, Siksha 'O' Anusandhan (Deemed to be
Filing Date	:NA	University), Bhubaneswar-751030, INDIA Orissa
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DR. PRIYABRATA PATTANAIK
Filing Date	:NA	2)DR. (MS) SHASHIREKHA. GOVIND
(62) Divisional to Application Number	:NA	3)DR. AMIT JENA
Filing Date	:NA	4)DR. SUSHANTA KUMAR KAMILLA
		5)MR. HARA PRASADA TRIPATHY

### (57) Abstract :

This invention relates to a system of automated irrigation and suction and-evacuation the chemical debris from the root canal system of the tooth and in particular, this invention relates to a system of automated irrigation and suction and evacuation the chemical debris from the root canal system of the tooth which comprises DC Controller motor, syringe, suction tip, heating coil, flexible pipe with needle etc. More particularly, this present invention relates to a system of automated irrigation and suction and evacuation the chemical debris which is much effective so that a shaped root canal cannot be damaged. Furthermore, this invention also relates to the system of automated irrigation and suction and evacuation the chemical debris from the root canal system of the tooth which has the advantages of protecting effect is good, and process is simple and direct, safe and reliable.

### (19) INDIA

(22) Date of filing of Application :29/01/2018

(43) Publication Date : 09/02/2018

### (54) Title of the invention : ALVEOLAR DISTRACTOR FOR ALVEOLAR DISTRACTION IN ATROPHIC MANDIBLES.

(51) International classification	:A61C8/00	(71)Name of Applicant :
(32) Priority Date	:NA :NA	UNIVERSITY) BHUBANESWAR
<ul><li>(33) Name of priority country</li><li>(86) International Application No</li></ul>	:NA ·NA	Address of Applicant :DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY INSTITUTE OF DENTAL
Filing Date	:NA	SCIENCES (IDS), SIKSHA O ANUSANDHAN (DEEMED TO
(87) International Publication No (61) Patent of Addition to Application Number	: NA ·NA	BE UNIVERSITY) BHUBANESWAR-751003 INDIA Orissa (72)Name of Inventor :
Filing Date	:NA	1)DR. SATYABRATA PATNAIK
(62) Divisional to Application Number Filing Date	:NA :NA	2)DR. (MS) SWATI SARASWATA ACHARYA

(57) Abstract :

This invention relates to an Alveolar Distractor for Alveolar Distraction in Atrophic Mandibles and in particular, this invention relates to an Alveolar Distractor for Alveolar Distraction for the treatment of alveolar defects, creating intramembranous bone based on the biologic principle of tension and stress. More particularly, this present invention relates to the Alveolar Distractor for Alveolar Distractor

### (19) INDIA

(22) Date of filing of Application :10/10/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : MODIFIED RUBBER DAM CLAMP WITH MATRIX BAND RETAINER

(51) International classification	:A61C5/12	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SIKSHA 'O' ANUSANDHAN UNIVERSITY
(32) Priority Date	:NA	BHUBANESWAR
(33) Name of priority country	:NA	Address of Applicant : DEPARTMENT OF CONSERVATIVE
(86) International Application No	:NA	DENTISTRY AND ENDODONTICS INSTITUTE OF DENTAL
Filing Date	:NA	SCIENCE (IDS) SIKSHA 'O' ANUSANDHAN UNIVERSITY
(87) International Publication No	: NA	BHUBANESWAR-751003 INDIA Orissa
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR.LORA MISHRA
(62) Divisional to Application Number	:NA	2)DR. MANOJ KUMAR
Filing Date	:NA	

(57) Abstract :

This invention relates to the modified rubber dam clamp and in particular, this invention relates to a rubber dam clamp having additional matrix band retainer which is for retracting the rubber dam and retaining the matrix band. More particularly, this present invention relates to the rubber dam clamp having modification which provides adequate contact and support and replace the missing wall due to caries and cavity preparation by retaining matrix band in its place. Furthermore, this invention also relates to the rubber dam clamp having matrix band in its place. Furthermore, this invention also relates to the rubber dam clamp having matrix band in its place. Simple and direct, safe and reliable.

(22) Date of filing of Application :10/10/2017

(21) Application No.201731035996 A

(43) Publication Date : 09/02/2018

### (54) Title of the invention : MOLAR DISTALIZATION DEVICE

(51) International classification	:A61C7/00; A61C7/10	(71)Name of Applicant : 1)SIKSHA 'O' ANUSANDHAN UNIVERSITY
(31) Priority Document No	:NA	BHUBANESWAR
(32) Priority Date	:NA	Address of Applicant :DR. (MS)SWATI SARASWATA
(33) Name of priority country	:NA	ACHARYA DEPARTMENT OF ORTHODONTICS AND
(86) International Application No	:NA	DENTOFACIAL ORTHOPEDICS INSTITUTE OF DENTAL
Filing Date	:NA	SCIENCE (IDS), SIKSHA 'O' ANUSANDHAN UNIVERSITY
(87) International Publication No	: NA	BHUBANESWAR- 751003 Orissa India
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. (MS) SWATI SARASWATA ACHARYA
(62) Divisional to Application Number	:NA	2)DR. SATYABRATA PATNAIK
Filing Date	:NA	

### (57) Abstract :

This invention relates to a molar distalization device for treatment of malocclusions and in particular, this invention relates to a molar distalization device for the treatment of stationary anchorage also instead of conventional extra oral large anchorage appliances, which is one of the main factors determining the stability success of the treatment. More particularly, this present invention relates to the molar distalization device which is the preservation of the anchorage while moving the molars distally. Furthermore, this invention also relates to a molar distalization device is simple to manufacture; chair time is saved; the operation process is simplified; is easier to accept by a patient.

### **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.201611016528 A
(19) INDIA	
(22) Date of filing of Application :12/05/2016	(43) Publication Date : 09/02/2018

# (54) Title of the invention : A BIOMETRIC FACE RECOGNITION BASED CONTINUOUS AUTHENTICATION AND AUTHORIZATION SYSTEM •

:G06K9/62 :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ol> <li>Credext Technologies Pvt. Ltd.</li> <li>Address of Applicant :Flat Number 105, First Floor, Block F,</li> </ol> </li> <li>Pocket C, DDA LIG Flat, Molarbandh, Delhi India <ul> <li>(72)Name of Inventor : </li> <li>Brejesh Lall</li> </ul> </li> </ul>
:NA :NA	
	:G06K9/62 :NA :NA :NA :NA :NA :NA :NA :NA :NA

### (57) Abstract :

A method and system for continuously authenticating a user working from a remote location is provided. The method includes providing user an interface to login through his login credentials to company domain. The login credentials are authenticated by a company<sup>TM</sup>s remote server. Once the user is authenticated the server pushes user<sup>TM</sup>s secondary authentication details to user<sup>TM</sup>s device and invokes a secondary authentication system. The secondary authentication system may include a webcam that initiates once user is logged in and continuously monitors biometric parameters for continued authentication of the user. Reference Figure - Fig 2.





### (19) INDIA

(22) Date of filing of Application :12/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : LATENT EVIDENCE SEARCHING TORCH		
<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li></ul>	:E21B29/02 :NA :NA	(71) <b>Name of Applicant :</b> 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR
(33) Name of priority country (86) International Application No.	:NA :NA	PRADESH SECTOR 125, NOIDA-201303, INDIA Uttar Pradesh
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)BHOOPESH KUMAR SHARMA
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number	:NA	
Filing Date	:INA	

(57) Abstract :

The present invention relates to a latent evidence-searching torch for detection and examination of latent evidences by Ultra Violet and Infrared radiations along with the camera, recording and viewing accessories to enhance the searching of the evidence and also to keep a record of it at the instant moment wherever required. The torch serves both the purposes on the crime scene as to search evidences and as an appropriate device to provide handy visualizing and detection unit to the investigating officer/ forensic specialists/ questioned document experts/fraud examiners at the crime scene or at anta required place.
(19) INDIA

(22) Date of filing of Application :12/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : MEDICAMENT AND DIAGNOSIS FOR SPINK1 POSITIVE CANCER

(51) International classification	:A61K	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Indian Institute of Technology, Kanpur
(32) Priority Date	:NA	Address of Applicant :Dean, Research & Development, Room
(33) Name of priority country	:NA	Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur-
(86) International Application No	:NA	208016, Uttar Pradesh, India Uttar Pradesh India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Bushra Ateeq
(61) Patent of Addition to Application Number	:NA	2)Vipul Bhatia
Filing Date	:NA	3)Anjali Yadav
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is in the field of therapeutic medication for the treatment of cancer, preferably SPINK1 associated cancer. The invention also provides biomarkers for Cancer and particularly detecting SPINK1-positive vs. SPINK1-negative subtype of cancers.

HH

No. of Pages : 29 No. of Claims : 13

### (19) INDIA

(22) Date of filing of Application :12/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : PHARMACEUTICAL COMPOSITIONS COMPRISING BRIVARACETAM

(51) International classification	· \ 61K	(71) Name of Applicant .
(31) International classification	AUIK	(71)Name of Applicant :
(31) Priority Document No	:NA	1)JUBILANT GENERICS LIMITED
(32) Priority Date	:NA	Address of Applicant :PLOT 1A, SECTOR 16A, NOIDA-201
(33) Name of priority country	:NA	301, U.P, INDIA Uttar Pradesh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MEHTA, KAMAL S.
(87) International Publication No	: NA	2)KUMAR, DINESH
(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 immediate release pharmaceutical compositions comprising Brivaracetam or its pharmaceutically acceptable salts, esters, solvates, derivatives, amides, polymorphs, enantiomers, prodrugs, analogues, active metabolites or mixtures thereof. The present invention also relates to a process for preparing solid oral pharmaceutical composition comprising Brivaracetam. The prior art highlights various technical challenges for the formulation development of Brivaracetam and offers restrictive and complex approach for resolution of technical challenges like use of cyclodextrin. Cyclodextrin free compositions of Brivaracetam prepared as per present invention, exhibited desirable technical attributes.

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

### (19) INDIA

(22) Date of filing of Application :12/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A SYSTEM AND METHOD FOR FIRMWARE UPGRADE OF A SMART ELECTRIC METER :G06F9/44 (71)Name of Applicant : (51) International classification (31) Priority Document No :NA 1)SUMERU VERDE TECHNOLOGIES PVT. LTD. (32) Priority Date :NA Address of Applicant : A-51, Sector-67, Noida, UP, 201301 (33) Name of priority country :NA India Uttar Pradesh India (72)Name of Inventor : (86) International Application No :NA Filing Date :NA 1)Subhasis Oiha (87) International Publication No : NA 2)Prithvi Pal Singh (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 is provided for firmware upgrade of smart energy meter comprising: uploading a new firmware data packet for continuous operation of smart energy meter without any interruption during firmware upgrade by utilizing either firmware image partition to exchange it for a new program; any one image partition to act as a backup and another image partition to run the system until the new transmission is uploaded, switching the old firmware data; a module for switching the old firmware data to the new updated firm ware data comprises of firmware one image partition, firmware two image partition, common interrupt vector partition and reserved partition; both firmware one image partition and firmware two image partition needs to be less than half of flash memory size which resides inside the microcontroller in order to utilise the free space efficiently; and there is no boot lag while the new transmission is uploaded switching the old firmware data. Figure 5 on Sheet 3 of the drawings may accompany the abstract when published.



## FIG.1

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

### (19) INDIA

(22) Date of filing of Application :06/05/2016

(43) Publication Date : 09/02/2018

## (54) Title of the invention : GLYCOLACTAM COMPOUNDS, PROCESS FOR PREPARATION AND USES THEREOF

()Name of Applicant : )COUNCIL OF SCIENTIFIC AND INDUSTRIAL ESEARCH Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI ARG, NEW DELHI-110001, INDIA Delhi India 2)Name of Inventor : )ASISH KUMAR BHATTACHARYA 2)HEMENDER RAMI CHAND
)) () () () () () () () () () () () () (

(57) Abstract :

The present invention discloses compounds of Formula I, R5V R /  $\K7$  N Re  $\R1\R8$  : o R2 Wherein, R, = R2 = R3 = R4 = R5 = R = R8 and is selected from H, OBn, OH, CH2OBn, CH2OH, CH3; R9 is selected from alkyl, substituted alkyl, hydroxyl alkyl, alkenyl, benzyl; process for preparation of N-alkylated glycolactam compounds of Formula I and their use for the synthesis of piperidine alkaloids and their analogues.

No. of Pages : 24 No. of Claims : 9

### (19) INDIA

(22) Date of filing of Application :06/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A SYSTEM AND METHOD FOR INTERACTIVE RECRUITMENT PROCESS

(51) I. (	000010/10	
(51) International classification	:GU6Q10/10	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CastleRed Internet Private Limited
(32) Priority Date	:NA	Address of Applicant :221 Ground Floor, Okhla Phase 3, New
(33) Name of priority country	:NA	Delhi 20, India Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)ROHIT TEWARI
(87) International Publication 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 system and method for a social hiring network aimed at global professional community for connecting employers, employees and candidates on one platform. The present invention provides a social platform for the users to dedicatedly search for relevant jobs and engage directly with the organization avoiding the need of communicating via a traditional job portal website. A user creates a profile in application to connect with other users in a professional network, while also search for relevant jobs through an internal employee of an organization. Further, the present invention provides a job poster to share a referral amount with a successful candidate on a successful hiring. This leads to peer to peer communication and interaction during a recruitment process that increases in receiving quality user profiles in a recruitment process.

No. of Pages : 43 No. of Claims : 18

### (19) INDIA

(22) Date of filing of Application :07/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A UNIVERSAL REMOTE CONTROL SYSTEM AND METHOD TO CONFIGURE THE SAME •

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:H04L17/02 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)AVISOFT SYSTEM PRIVATE LTD. Address of Applicant :B-190, Sector 71, Noida, India Uttar Pradesh India</li> <li>2)TARUN GUPTA</li> <li>(72)Name of Inventor :</li> </ul>
(87) International Publication No	: NA	1)TARUN GUPTA
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

### (57) Abstract :

The present invention provides a universal remote control system and a method to configure a universal remote device with remotely controlled electronic devices. The system of the present invention comprises a remote communication module for transmitting and receiving signals, a control module for controlling the transmitting and receiving signals; a configuration module for registering, configuring and storing the command codes; and a cloud database module containing information for device registration. The present invention also provides system for configuring a universal remote control device using a configuration module and a cloud database wherein said configuration module is capable of capturing information and/or identification codes from non-configured devices, transmitting said captured information to a cloud database for device verification and displaying device specific secret configuration codes generated on cloud database upon a successful device verification. Figure 1 on Sheet 1 of the drawings may accompany the abstract when published.

1779C

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

### (19) INDIA

(22) Date of filing of Application :09/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : PATIENT TRANSFER ASSISTING DEVICE		
(51) International classification	:A61G//10	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR.LAKHWINDER PAL SINGH (NIT JALANDHAR)
(32) Priority Date	:NA	Address of Applicant : ASSISTANT PROFESSOR,
(33) Name of priority country	:NA	DEPARTMENT OF INDUSTRIAL AND PRODUCTION
(86) International Application No	:NA	ENGINEERING, DR B R AMBEDKAR NATIONAL
Filing Date	:NA	INSTITUTE OF TECHNOLOGY, JALANDHAR-144011 Punjab
(87) International Publication No	: NA	India
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR.LAKHWINDER PAL SINGH
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A patient transfer-assisting device (1) comprising two longitudinal hollow rods (2), multiple supporting cushioned panels (5, 6, 7, 8), multiple interlocking rings or stoppers (4) to lock the supporting panels over the rods, at least two small transverse steel rods (3) for maintaining the width and providing support in between to longitudinal rods, comfortable cushioning with slippery cover over the supporting panels, especially, for supports on the neck and lumber, reinforcements of leather/jute/sisal and a high tear strength fabric with low coefficient of friction, means provided on the rods to enable use of cantilever hoists for assisting in lifting and putting down the device. Fig. 1A

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

### (19) INDIA

(22) Date of filing of Application :27/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A BIO-PESTICIDE AND A METHOD FOR DEVELOPMENT THEREOF

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number</li> </ul>	:A01N63/04 :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)INTERNATIONAL PANAACEA LIMITED Address of Applicant :E - 34, 2nd FLOOR, CONNAUGHT PLACE, NEW DELHI 110001, INDIA Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)DR. PRAKASH, VIMLA</li> <li>2)DR. BASU, KAUSHIK</li> </ul>
Filing Date	:NA :NA	

(57) Abstract :

This invention provides a method of producing Pseudomonas fluorescens using submerged fermentation under control condition of optimized batch parameters. The present invention relates to growing Pseudomonas fluorescens in liquid phase and it is method of scale up and mass multiplication. In present invention, the bacterial strain was also optimized for various factors like carbon nitrogen sources, temperature, pH, agitation and aeration etc. The invention also summarizes the most effective application methodology for suppressing plant diseases under natural field conditions.

No. of Pages : 21 No. of Claims : 20

### (19) INDIA

(22) Date of filing of Application :27/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : METHOD AND SYSTEM FOR DETERMINING EQUITY INDEX FOR A BRAND

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(22) Priority Data</li></ul>	:G06Q30/02 :NA	(71)Name of Applicant : 1)WNS Global Services (UK) Limited
(32) Priority Date (33) Name of priority country	:NA :NA	London NW1 3ER, United Kingdom U.K.
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)Prashant Dabas
<ul><li>(87) International Publication No</li><li>(61) Patent of Addition to Application Number</li></ul>	: NA :NA	2)Rashi Gupta 3)Kamal Chawla
Filing Date (62) Divisional to Application Number	:NA :NA	4)Tushar Kakkar
Filing Date	:NA	

### (57) Abstract :

The present disclosure relates to analysis of content to determine an equity index of a brand by building a data record by procuring input data from at least one platform; enriching the data record to remove noise from the input data to obtain an enriched data record; classifying the enriched data record into at least one category of one or more categories to obtain a classified data record; determining a sentiment ratio for the classified data record; determining an engagement metrics for the brand; and determining the equity index for the brand based on the at least one category and the sentiment ratio, the sentiment ratio and one or more variables. FIGURE NO. 2



FIGURE 1 No. of Pages : 26 No. of Claims : 16

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : OIL IN WATER CURCUMIN NANOEMULSION AND METHOD OF PREPARATION THEREOF

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:A61K 8/06 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH</li> <li>(ICAR) <ul> <li>Address of Applicant :KRISHI BHAWAN, DR. RAJENDRA</li> <li>PRASAD ROAD, NEW DELHI-110001, INDIA Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)DR. BIMLESH MANN</li> </ul> </li> </ul>
(87) International Publication No (61) Patent of Addition to Application Number	: NA •NA	2)DR. RAJAN SHARMA
<ul><li>(61) Patent of Addition to Application Number</li><li>Filing Date</li><li>(62) Divisional to Application Number</li><li>Filing Date</li></ul>	:NA :NA :NA ·NA	5)DR. RAJESH BAJAJ 4)MRS. POOJA WAGHMODE 5)DR. RAMESH POTHURAJU
I ming Date	.111/1	

(57) Abstract :

Stable nanoemulsion system was simply developed by using the encapsulation of curcumin within the food grade ingredients. This invention involves the step wise mixing of ingredients like whey protein, bulking agent and Tween in water followed by curcumin in medium chain triglycerides. Further it is one step procedure, which involves high speed homogenization of this ingredient mix and conversion into a nanoemulsion. Furthermore, it may be converted into a freeze-dried nanoemulsion powder and studied physico-chemical properties (particle size, zeta potential and polydispersity index) for fresh and freeze driedemulsions. Finally, morphological characteristics were analyzed by means of SEM and TEM. The curcumin encapsulated nanoemulsion hence can be used as effective delivery system for the incorporation of foods.

Alterna

No. of Pages : 12 No. of Claims : 8

### (19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : RALOXIFENE SPRINKLE COMPOSITION.

<ul><li>(51) International classification</li><li>(31) Priority Document No</li></ul>	:A61K 31/00 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SUN PHARMACEUTICAL INDUSTRIES LIMITED Address of Applicant :SUN HOUSE, CTS NO. 201 B/1,</li> </ul>
(32) Priority Date	:NA	WESTERN EXPRESS HIGHWAY, GOREGAON (E),
(33) Name of priority country	:NA	MUMBAI-400063, MAHARASHTRA, INDIA Maharashtra India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)UJJWAL PRASAD RANJAN
(87) International Publication No	: NA	2)MONA DHALIWAL
(61) Patent of Addition to Application Number	:NA	3)MUKESH GARG
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a capsule composition of raloxifene comprising multiparticulates comprising a) a core comprising raloxifene, and b) a taste masking coating present in amount of 0.5% to 40% w/w based on the core weight.

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

### (19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : ASYMMETRIC HOLLOW FIBER MEMBRANES FOR GAS HUMIDIFICATION

(51) International classification:B01D69/02(31) Priority Document No:NA	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL
(32) Priority Date :NA	RESEARCH
(33) Name of priority country :NA	Address of Applicant : ANUSANDHAN BHAWAN, 2 RAFI
(86) International Application No :NA	MARG, NEW DELHI-110001, INDIA Delhi India
Filing Date :NA	(72)Name of Inventor :
(87) International Publication No : NA	1)RAMENDRA PANDEY
(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 an improved process of humidification of gases comprising porous fiber membranes wherein, the membranes with desired characteristics affords tuning of humidity and heat of gases.



No. of Pages : 27 No. of Claims : 5

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : AN IMPROVED PROCESS FOR THE SYNTHESIS OF IVACAFTOR

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li></ul>	:A61K 31/00 :NA :NA	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI
(33) Name of priority country (86) International Application No	:NA ·NA	MARG, NEW DELHI-110001, INDIA Delhi India (72)Name of Inventor •
Filing Date	:NA	1)DUMBALA SRINIVASA REDDY
(87) International Publication No	: NA	2)AMOL ARVIND KULKARNI
(61) Patent of Addition to Application Number	:NA	3)VASUDEVAN NATARAJAN
Filing Date	:NA	4)MRITYUNJAY KESHAVPRASAD SHARMA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosed an improved process for the synthesis of ivacaftor starting from indole acetic acid ester which can be performed in batch as well as continuous flow synthesis. The present invention further disclosed to a continuous process for the synthesis of compound of formula (II) or formula (III) from compound of formula (I) in continuous flow reactor.

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

### (19) INDIA

(22) Date of filing of Application :12/05/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : MAT FOR ASSESSING INVENTORY CONSUMPTION AND PERFORMING INVENTORY MANAGEMENT

(51) International classification	:G06Q10/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GOEL, Nikhil
(32) Priority Date	:NA	Address of Applicant :57/43 Block -B, Shyam Nagar, Kanpur
(33) Name of priority country	:NA	-208013, PO COD, U.P., India. Uttar Pradesh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)GOEL, Nikhil
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

### (57) Abstract :

The present disclosure pertains to a mat that can be used for measuring/assessing consumption of one or more resources and inventory management based thereon. In an aspect, the proposed system can include a mat 102 that can have one or more slots to hold one or more containers 104, wherein each slot of the mat 102 can include a load cell that can be configured to evaluate/compute quantity consumed/left in the respective container of the one or more containers 104 and an RFID reader to read the unique ID of the RFID chip configured at the base of the container and the associated content of the container as set during Container registration. Such computations of load or weight along with the unique ID can then be sent through a network connection such as 106 to say a Wi-Fi router 108 for onward transmission to a Cloud/Server 110.

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

### (19) INDIA

(22) Date of filing of Application :13/05/2016

### (43) Publication Date : 09/02/2018

# (54) Title of the invention : A NOVEL SWEET HERBAL COMPOSITION MADE FROM STEVIA LEAVES WITHOUT SUGAR CALORIES FOR AN INSTANT READY-TO-USE BEVERAGE AND A PROCESS FOR MAKING THEREOF

(51) International classification	:A61K	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GANDHI, RAJPAL SINGH
(32) Priority Date	:NA	Address of Applicant :R-5, MODEL TOWN, BANGA DISTT.,
(33) Name of priority country	:NA	S.B.S. NAGAR, PUNJAB Punjab India
(86) International Application No	:NA	2)GANDHI, AMANDEEP SINGH
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)GANDHI, RAJPAL SINGH
(61) Patent of Addition to Application Number	:NA	2)GANDHI, AMANDEEP SINGH
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a phytochemical based, ready-to-drink beverage composition. The present invention also provides a process of preparing the same. The composition of present invention is comprising Stevia Leaf Extract, Maltodextrin/bulking agent and Natural and/or Nature identical flavors; said composition is having 12-16% of a protein with a carrier and natural flavors being soluble in an aqueous medium and consisting essentially of a short chain protein having a molecular weight in the range of 2,000 to 10,000 which is obtained from Stevia leaf tissue. All the ingredients of the composition are working together in synergistic manner. The composition is completely chemical free and has zero calories.

No. of Pages : 22 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION		(21) Application No.201611016752 A
(19) INDIA		
(22) Date of filing of Application :13/05/2016		(43) Publication Date : 09/02/2018
(54) Title of the invention : FUEL DRAINAGE SYSTEM		
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:F16K :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)HERO MOTOCORP LIMITED Address of Applicant :34 COMMUNITY CENTER, BASANT LOK, VASANT VIHAR, NEW DELHI-110057 Delhi India (72)Name of Inventor : 1)SULABH SHARMA </li> </ul>

(57) Abstract :

In an embodiment, a fuel drainage system (300) for a vehicle (100) includes at least two fuel related systems (310;320;330), at least two drain pipes (315;325;335) and a connector (350). The at least two fuel related systems (310;320;330) are for at least one of storing, supplying, discharging fuel in the vehicle (100). The at least two drain pipes (315;325;335) extending from the at least two fuel relating systems (310;320;330) are adapted to discharge fuel. The connector (350) includes at least two input ports (355; 365; 375) and at least one output port (380). The at least two input ports (355; 365; 375) are adapted to be connected to the at least two drain pipes (315;325;335) in respective manner. The at least one output port (380) is adapted to discharge fuel collected through the at least two input ports (355; 365; 375) to atmosphere. Figure 3



No. of Pages : 18 No. of Claims : 11

### (19) INDIA

(22) Date of filing of Application :13/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A MOBILE PRECAST CONCRETE TOILET UNIT

(51) International classification	5/04	(/1)Name of Applicant :
1	5/04	1) Caya Constructs
(31) Priority Document No :1	NA	Address of Applicant : B 38 Gulmohar Park, New Delhi-
(32) Priority Date :1	NA	110049, India Delhi India
(33) Name of priority country :1	NA	(72)Name of Inventor :
(86) International Application No :1	NA	1)Ashish Gupta
Filing Date :1	NA	2)Sourabh Gupta
(87) International Publication No :	NA	3)Tanya Gupta
(61) Patent of Addition to Application Number :	NA	
Filing Date :1	NA	
(62) Divisional to Application Number :1	NA	
Filing Date :1	NA	

(57) Abstract :

The present invention relates to a precast concrete toilet unit (100). The unit comprises of a monolithic precast concrete structure having a plurality of walls (110a, 110b. 110c), a roof (120), at least a door (150) and a base foundation (130) wherein the mass of said base foundation is made equal to the combined mass of the remaining structure thereby providing a low center of gravity. Refer Figure 1



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

(22) Date of filing of Application :14/05/2016

### (43) Publication Date : 09/02/2018

### (54) Title of the invention : CIRCUIT TOPOLOGY OF MODULAR MULTILEVEL CONVERTER (MMC) FOR DC TO AC POWER CONVERSION APPLICATIONS

(51) International classification	:H02M 7/00	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY, DELHI
(31) Priority Document No	:NA	Address of Applicant :Hauz Khas, New Delhi-110016, India
(32) Priority Date	:NA	Delhi India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)DAS, Anandarup
Filing Date	:NA	2)PARIDA, Nibedita
(87) International Publication 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 circuit topology of modular multilevel converter for DC to AC conversion, said circuit comprising: at least one upper arm having plurality of power cells arranged in cascade and plurality of series inductance (L\_arm); at least one lower arm having plurality of parallel L-C filter circuit, wherein a lower arm voltage is absent while said upper arm is generating a required grid voltage; wherein said LC filter circuit is turned at a fundamental frequency and restrict the fundamental current to flow through it and allows the flow of said fundamental current from DC bus to a grid side through said upper arm of the converter, thereby providing pure sinusoidal form of AC voltages at the output of said converter.



FIGURE 1

No. of Pages : 27 No. of Claims : 5

### (19) INDIA

(22) Date of filing of Application :10/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : MULTIMODAL INTERACTION SYSTEM & METHOD FOR VISUALLY IMPAIRED •

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> </ul>	:G06F17/24 :NA :NA ·NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ANKITA GULATI</li> <li>Address of Applicant :CD 28 E, DDA Flats, Hari Nagar, New Delbi-110064. India Delbi India</li> </ul>
<ul> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:NA :NA :NA	2)INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN (72)Name of Inventor :
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA	1)GULATI Ankita 2)BALAKRISHNAN Meenakshi 3)REDDY S. Ramanarayana

(57) Abstract :

The present invention relates to a multimodal interaction system for visually impaired. The system of the present invention provides synchronized audio stimuli in addition to haptic stimulus to the visually impaired and comprises of a tactile printed material, an application on a computing device for providing audio and a stand to hold the computing device at a specific angle. The application is configured to use the camera of the computing device for scanning the printed material and computer vision techniques for processing and filtering the scanned image and extracting relevant features from the image.



FIG. 1 No. of Pages : 20 No. of Claims : 9

### (19) INDIA

(22) Date of filing of Application :11/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : A SYSTEM, AN IMAGE CAPTURING DEVICE, AN IMAGE PROCESSING DEVICE AND A METHOD THEREOF

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(34) International Application No</li> <li>(37) International Publication Number</li> <li>(37) International Publication Number</li> <li>(37) International Publication Number</li> <li>(38) NA</li> <li>(39) Priority Pathener</li> <li>(30) Priority Pathener</li> <li>(31) Priority Pathener</li> <li>(32) Priority Pathener</li> <li>(32) Priority Pathener</li> <li>(33) NA</li> <li>(32) Priority Pathener</li> <li>(33) NA</li> <li>(33) Name of Priority Pathener</li> <li>(34) Pathener</li> <li>(35) Priority Pathener</li> <li>(36) Pathener</li> <li>(37) Pathener</li> <li>(38) Pathener</li> <li>(38)</li></ul>	<ul> <li>(71)Name of Applicant :</li> <li>1)AARDE TECHNOSOFT PVT. LTD. Address of Applicant :25 ECHELON SQUARE, INSTITUTIONAL AREA, SECTOR 32, GURGAON, INDIA- 122001 Haryana India</li> <li>(72)Name of Inventor :</li> <li>1)RAGHAVENDRA POLANKI</li> <li>2)RAJIV KUMAR</li> <li>3)DEBANJAN NANDI</li> </ul>
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(57) Abstract :

The present invention discloses a system, an image capturing device, an image processing device and a method thereof. The system for capturing and aligning the images comprises an automated panoramic head positioned on a tripod, an image capturing device, a plurality of marking cues, an image processing device and a graphics viewer. The method for capturing and aligning the 2D images comprises of capturing the images by an image capturing device, automatically rotating the 2D image capturing device to capture images from a different direction, processing the captured images by the image processing device and presenting the processed image on the graphics viewer. FIGURE 1



No. of Pages : 28 No. of Claims : 17

### (19) INDIA

(22) Date of filing of Application :11/05/2016

(54) Title of the invention : ELECTRO TILES		
(51) International classification	:G02F1/1333	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Chandigarh Group of Colleges
(32) Priority Date	:NA	Address of Applicant :Landran Kharar Banur Highway, Sector
(33) Name of priority country	:NA	112, Landran, Sahibzada Ajit Singh Nagar, Punjab 140307 Punjab
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Ruchi Singla
(61) Patent of Addition to Application Number	:NA	2)Surinder Singh
Filing Date	:NA	3)Nitin Sharma
(62) Divisional to Application Number	:NA	4)Vishal Gupta
Filing Date	:NA	5)Shikha Chawla

(57) Abstract :

There is provided a system for generation of electricity using pressure applied to a surface including at least one tile and a

piezoelectric transducer communicably coupled to the at least one tile. The piezoelectric transducer is operable to convert the pressure applied to the one or more tiles into electric charge, for the generation of electricity.

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

### (19) INDIA

(22) Date of filing of Application :11/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : 1- BENZOYL-3-(2-PYRIMIDYL) THIOUREA :C07C335/26 (71)Name of Applicant : (51) International classification (31) Priority Document No 1)Chandigarh Group of Colleges :NA (32) Priority Date Address of Applicant : Landran Kharar Banur Highway, Sector :NA (33) Name of priority country 112, Landran, Sahibzada Ajit Singh Nagar, Punjab 140307 Punjab :NA (86) International Application No :NA India (72)Name of Inventor: Filing Date :NA (87) International Publication No : NA 1)Dr. Shalini Verma (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 a process for the synthesis of 1- benzoyl-3-(2-pyrimidyl) thiourea compound which is newly synthesized by reacting equimolar quantities of 2- aminopyrimidine and benzyl isothiocyanate. The structure of the 1- benzoyl-3-(2-pyrimidyl) thiourea compound is:

No. of Pages : 15 No. of Claims : 4

### (19) INDIA

(22) Date of filing of Application :11/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : METHOD OF MANAGING WIRELESS MOBILE AD-HOC NETWORK TO PREVENT BLACK HOLE ATTACK •

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(36) International Application Number</li> </ul>	:H04W12/12 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Landran, Sahibzada Ajit Singh Nagar, Punjab 140307 Punjab</li></ul>
<ul><li>(86) International Application No Filing Date</li><li>(87) International Publication No</li></ul>	:NA :NA : NA	(72)Name of Inventor : 1)Prof.(Dr)Amit Verma
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Data</li> </ul>	:NA :NA :NA	2)Prof.Iqbaldeep Kaur 3)Prof. Tanisha
Filling Date	.INA	

### (57) Abstract :

Disclosed is a method for managing a wireless mobile ad-hoc network to prevent black hole attack. The method comprises initializing a plurality of nodes to implement said wireless mobile ad-hoc network, wherein said plurality of nodes are configured to communicate using a cognitive radio network, detecting at least one malicious node within said plurality of nodes using a Cooperative Bait Detection Scheme; and generating a path for data transmission between said source node and said destination node, wherein said path excludes said at least one malicious node.

No. of Pages : 24 No. of Claims : 9

(19) INDIA

(22) Date of filing of Application :11/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : Mobile Wireless Sensor Network Design For Minimization Of Consumption Of Energy And Fault •		
(51) International classification :H04W	(71)Name of Applicant :	
(31) Priority Document No :NA	1)Chandigarh Group of Colleges	
(32) Priority Date :NA	Address of Applicant :Landran Kharar Banur Highway, Sector	
(33) Name of priority country :NA	112, Landran, Sahibzada Ajit Singh Nagar, Punjab 140307 Punjab	
(86) International Application No :NA	India	
Filing Date :NA	(72)Name of Inventor :	
(87) International Publication No : NA	1)Prof.(Dr)Amit Verma	
(61) Patent of Addition to Application Number :NA	2)Prof.Iqbaldeep Kaur	
Filing Date :NA	3)Prof. Tanisha	
(62) Divisional to Application Number :NA		
Filing Date :NA		

(57) Abstract :

The present invention relates to low cost more reliable mobile wireless sensor network system. The system is based on application of a distributed fault-tolerant clustering algorithm in mobile wireless sensor networks. This fault has been removed by using back up cluster or by setting the root information as a prefix. The system in which hierarchical routing has been implemented which helps to reduce the energy consumption.

No. of Pages : 17 No. of Claims : 2

### (19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : TRIAZINE-BASED AADD-TYPE SELF-COMPLEMENTARY QUADRUPLE HYDROGENBONDED SYSTEMS DEVOID OF PROTOTROPY

(51) International classification	:C08K 5/3492	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL
(31) Priority Document No	:NA	RESEARCH
(32) Priority Date	:NA	Address of Applicant : ANUSANDHAN BHAWAN, 2 RAFI
(33) Name of priority country	:NA	MARG, NEW DELHI-110001, INDIA Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)GANGADHAR JESSY SANJAYAN
(87) International Publication No	: NA	2)SANJEEV KHERIA
(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 triazine-based AADD-type self-complementary quadruple hydrogen-bonded systems of Formula (I). More particularly, the present invention discloses 1,3,5-triazine-based AADD-type self-complementary quadruple hydrogen-bonded systems of Formula (I) devoid of prototropy and a process for the preparation thereof.

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

### (19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A ONE STEP PROCESS FOR THE SYNTHESIS OF AROMATIC CARBAMATES

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> </ul>	:C07D 215/00 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL</li> <li>RESEARCH <ul> <li>Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI</li> <li>MARG, NEW DELHI-110001, INDIA Delhi India</li> <li>(72)Name of Inventor :</li> </ul> </li> </ul>
<ul> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA : NA :NA :NA :NA :NA	1)VIVEK VINAYAK RANADE 2)ASHUTOSH ANANT KELKAR 3)NAYANA TUSHAR NIVANGUNE

(57) Abstract :

The present invention provides a one pot, one step process for synthesis of aromatic carbamates, while maintaining a high selectivity towards the desired product, with a high degree of conversion of the amines and alkyl carbonates that used as starting materials.

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

(19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A PROCESS FOR PREPARATIONOF POROUS SILICA PARTICLESAND USE THEREOF

(51) International classification	:C01B 33/0	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL
(31) Priority Document No	:NA	RESEARCH
(32) Priority Date	:NA	Address of Applicant : ANUSANDHAN BHAWAN, 2 RAFI
(33) Name of priority country	:NA	MARG, NEW DELHI-110001, INDIA Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)PRASAD LAKSHMI VARA BHAGAVATULA
(87) International Publication No	: NA	2)PRAVIN NARAYAN SHINDE
(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 process for the preparation of dual functionalization (hydrophilic outside and hydrophobic inside) mesoporous silica nanoparticles.



No. of Pages : 29 No. of Claims : 6

## (12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : AN IMPROVED METHOD OF ACCESSING WEB CONTENT USING A CUSTOMIZED VIRTUAL **KEYPAD AND A SYSTEM THEREOF**

<ul><li>(51) International classification</li><li>(31) Priority Document No</li></ul>	:G06F17/30861 :NA	<ul><li>(71)Name of Applicant :</li><li>1)Process Nine Technologies Pvt. Ltd.</li></ul>
(32) Priority Date	:NA	Address of Applicant :E-13 Model Town, Delhi 110009, India
(33) Name of priority country	:NA	Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Rakesh Kapoor
(87) International Publication 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 for allowing a user of a touch-enabled device to access a web content without requiring such user to manually exit the current application. The present invention to provide an improved virtual keypad comprising of a specialized navigation key to initiate a trigger to a cloud based application to display an updatable list of icons corresponding to a particular web resources e.g. web site on a GUI window. REFER TO FIGURE 1

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

### (19) INDIA

(22) Date of filing of Application :30/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : ROTARY/SWIVEL FIXED CIRCULAR KNITTING NEEDLES ASSEMBLY

(51) International classification:D04B 23/04(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No Filing Date:NA(87) International Disklipation No:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)KnitPro International Address of Applicant :SDF J-8, Noida Special Economic Zone Noida (U.P.) 201305 INDIA Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)Mr. Ashoke Kumar Rastogi</li> </ul>
(87) International Publication 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 proposes a rotary/swivel fixed circular knitting needles assembly comprises of a pair of knitting needles, a pair of metallic ferrules, and a pair of beads integrated at both the ends of a flexible cable wire, wherein the said rotary/swivel fixed circular knitting needles assembly is characterized in a mutual rotation/swivel between the said knitting needles and said cable with respect to each other so as to untangle the said flexible cable wire during the knitting process.

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

### (19) INDIA

(22) Date of filing of Application :31/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : POLARIZATION ENGINEERED ENHANCEMENT MODE III-V GROUP BASED DEVICES

(51) International classification	:H01L29/127	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. SAJAD A.LOAN
(32) Priority Date	:NA	Address of Applicant :ELECTRICAL & COMMUNICATION
(33) Name of priority country	:NA	ENGINEERING JAMIA MILLIA ISLAMIA NEW DELHI-
(86) International Application No	:NA	110025, INDIA Delhi India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. SAJAD A.LOAN
(61) Patent of Addition to Application Number	:NA	2)MR. SUMIT VERMA
Filing Date	:NA	3)DR. HUMYRA SHABIR
(62) Divisional to Application Number	:NA	4)PROF. A.R.M. ALAMOUD
Filing Date	:NA	

(57) Abstract :

A method of achieving enhancement mode operation in 111-V group semiconductor devices is discussed. The disclosure uses polarization engineering to achieve enhancement mode operation in both lateral devices(CAVET) and vertical devices (HEMT) without using any P-type doping or gate recessing. The method involves forming a polar region in bulk or drift layer to form two dimensional hole gas 2DHG. The 2DHG induce the effect of P-type doping and form a conduction barrier resulting in normally off operation, a major requirement of enhancement mode devices.

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No. of Pages : 13 No. of Claims : 14

### (19) INDIA

(22) Date of filing of Application :31/05/2016

### (43) Publication Date : 09/02/2018

(54) Title of the invention : A MULTI GEAR BICYCLE		
(51) International classification	:B62K 3/00	(71)Name of Applicant : 1)Gopiram Soni
(31) Priority Document No	:NA	Address of Applicant : Village/Post: Lutu, Via: Kolinda,
(32) Priority Date	:NA	Taluka: Jhunjhnu, District: Jhunjhunun, Rajasthan, India
(33) Name of priority country	:NA	Rajasthan India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Gopiram Soni
(87) International Publication 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 problem to be solved is to provide a bicycle with gearing arrangement that does not adds excess weight to the rear wheel and avoids chain slippage, to provide a lighter and efficient bicycle, and the problem is solved by providing a multiple gearing system in a gear box (7) in a bicycle with first gearing unit (17) that rotates with the force on the first shaft (14) applied on the pedaling unit (3), which is transferred to the second shaft (15) through second gearing unit (18) and further transfered to the third shaft (16) for ratating rear wheel (2) through third gearing unit (20), wherein the secondary gears (19) of different circumference or diameter gets coupled or decoupled with tertiary gears having different circumference or diameter by a gear changing unit (12) thereby, controlling the speed and torque to enable riding of bicycle at different geographical locations. Fig. 1 is the representative figure.

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

# (12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :17/05/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : SYSTEM, METHOD AND APPARATUS FOR BETTER MANAGEMENT OF A PREMISE USING SENSOR AND CCTV ANALYTICS

(51) International classification	:H04H 60/59	(71)Name of Applicant : 1)ELIXIR SOFTECH PRIVATE LIMITED
(31) Priority Document No	:NA	Address of Applicant :C4/128 SAFDARJUNG
(32) Priority Date	:NA	DEVELOPMENT AREA, NEW DELHI Delhi India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)RAJUL TANDON
Filing Date	:NA	2)PRANAV SURESH BHRUGUWAR
(87) International Publication 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, method and apparatus for better management of a premise using video and sensor analytics comprising: a CCTV camera which is used to grab a video feed, a digital video recorder (DVR) which records the feeds of the CCTV, one or more sensors to process video feed obtained by the CCTV and to convert the video feed into metadata; a network connecting the sensor with the store DVR to fetch and process the stored video feeds in real-time, a webserver deployed with a web service connected to the network, a database server connected to the network which in turn connected to a web dashboard configured to process the metadata for generating analytics reports. The sensor is configured to detect any Wi-Fi or Bluetooth enabled handheld device within the range of the sensor. The sensor is configured to track the unique media access control (MAC) ID of the handheld device. The sensor is configured to process the fetched video feed and MAC IDs and to convert the video feed and MAC IDs into metadata. [FIG. 3]

No. of Pages : 40 No. of Claims : 17

### (19) INDIA

(22) Date of filing of Application :18/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : AQUA-PARAMETERS REAL TIME MONITORING AND CONTROLLING SYSTEM

(51) International classification:A01(31) Priority Document No:NA	1K63/04 (71)Name of Applicant : 1)INDIRA GANDHI DELHI TECHNICAL UNIVERSITY
(32) Priority Date :NA	FOR WOMEN
(33) Name of priority country :NA	Address of Applicant :KASHMERE GATE, NEW DELHI -
(86) International Application No :NA	110006, INDIA Delhi India
Filing Date :NA	(72)Name of Inventor :
(87) International Publication No : NA	A 1)REDDY S.Ramanarayana
(61) Patent of Addition to Application Number :NA	2)SHAREEF Zeenat
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

The present invention relates to an integrated system (100) for remote monitoring of multiple parameters of water for aquaculture. The system of the present invention comprises of a floating sensor nodes (11) consisting of multiple sensors to measure water parameters, a base station (101) for transferring the measured parameters received from sensor node (11) of a particular site to a remote unit, a remote monitoring unit (102) for receiving data from multiple base stations (101) for storing, analysis and alerting, a software application to access the real time parameters data on smart device (103) of user and an actuator node (12) for regulation of the water parameters based on measured data. The sensor node (11) also consists of an integrated GPS to provide location of each sensor node and a communication module for transmitting the measured data to base station.



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

### (19) INDIA

(22) Date of filing of Application :18/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : CRUDE UNIT OVERHEAD CORROSION CONTROL USING MULTI AMINE BLENDS

(51) International classification:C10G7/10(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Bharat Petroleum Corporation Ltd. Address of Applicant :Corporate Research and Development Centre, Plot No.2A, Udyog Kendra, P.O. Surajpur, Greater Noida- 201306, Uttar Pradesh, India. Uttar Pradesh India</li> <li>(72)Name of Inventor :</li> <li>1)RAWAT, Jaya</li> <li>2)VERMA, Ankur</li> <li>3)GOKAK, D. T.</li> </ul>
(62) Divisional to Application Number :NA Filing Date :NA	4)BHARGAVA, Sanjay

(57) Abstract :

The present disclosure provides a method for inhibiting corrosion on internal metal surfaces of an overhead condenser of a crude distillation unit in which hydrocarbons, water and amine hydrochlorides condense, the method comprising adding to the overhead condenser an amine composition in an amount and at a rate sufficient to maintain the pH of water condensate in the condenser above a pH of about 5, the amine composition consisting of a mixture of four amines wherein the amines are monoethanloamine, methoxypropyl amine, morpholine and cyclohexylamine present in a weight ratio ranging from about 25:30:25:20 to about 30:40:15:15. The present disclosure further provides a system and method to assess the corrosion rate and to optimize the dosage of neutralizing amine composition during the operating conditions of overhead condensing system.

No. of Pages : 27 No. of Claims : 9

### (19) INDIA

(22) Date of filing of Application :19/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : AUTOMATIC AUTOMOBILE SPEED CONTROL THEORY

(51) International classification	:B60K31/047	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GAURAV RAJ MISHRA
(32) Priority Date	:NA	Address of Applicant :1/223-D, PHOOS BANGLO,
(33) Name of priority country	:NA	FARUKHABAAD, UTTARPARDESH-209601, INDIA Uttar
(86) International Application No	:NA	Pradesh India
Filing Date	:NA	2)ATHAR KHAN
(87) International Publication No	: NA	3)RAHUL VASHISTH
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)GAURAV RAJ MISHRA
(62) Divisional to Application Number	:NA	2)ATHAR KHAN
Filing Date	:NA	3)RAHUL VASHISTH

(57) Abstract :

The said invention is related to control the speed of vehicles automatically. By this technique, speed of vehicles is being controlled by which road accidents are minimized and pollution is minimized.

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

### (19) INDIA

(22) Date of filing of Application :17/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A NEW PROCESS FOR THE PREPARATION OF FORMOTEROL AND ITS SALTS, HYDRATES AND ENANTIOMERS •

(51) International classification	:A61K9/0075	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Coral Drugs Pvt. Ltd.
(32) Priority Date	:NA	Address of Applicant :1001 Akash Deep Building, 26-A
(33) Name of priority country	:NA	Barakhamba Road Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)VINAYAK TRIPATHI
(87) International Publication No	: NA	2)RAJESH KUMAR
(61) Patent of Addition to Application Number	:NA	3)ROHIT BHUWANIA
Filing Date	:NA	4)BINAY KUMAR BHUWANIA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention generally relates to chemical process. In particular it pertains to a novel and improved process for preparation of Formoterol and its hydrates, salts and enantiomers.

No. of Pages : 33 No. of Claims : 10
(22) Date of filing of Application :31/05/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : VPN BASED SYSTEM AND METHOD TO DETECT AND MONITOR PASSENGER OVERLOADING IN PUBLIC TRANSPORT

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(87) International Publication No</li> <li>(11) Patent of Addition to Application Number</li> <li>Filing Date</li> <li>(62) Divisional to Application Number</li> <li>Filing Date</li> <li>(87) International to Application Number</li> <li>(87) International Publication Number</li> <li>(87)</li></ul>	H04L67/306(71)Name of Applicant : 1)CHITKARA UNIVERSITY Address of Applicant :Chandigarh-Pati (NH-64) Tehsil Rajpura, Distt. Patiala Pun (72)Name of Inventor : 1)Dr. PANDA SURYA NARAYAN (72)Name of Inventor : 1)Dr. PANDA SURYA NARAYAN 2)SINGHAL TARSEM LAL 3)KANSAL ABHISHEK 4)DOGRA PRINCE 5)SOHAL PIYUSH 6)BATHLA PRATHAM 7)KATHURIA ANCHAL	ala National Highway jab, India. Punjab India
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#### (57) Abstract :

The present invention discloses a system and method to detect real time passenger overloading in multiple vehicles in public transport. The system includes two display devices and suitable sensors to provide a real time counting of the passengers on board at a time. This is achieved with the help of a programmed micro controller which processes the information received from the sensors. This microprocessor along with electronic circuitry is placed in a control box kept in the vehicle at a suitable location. For analyzing the received information at a higher level for multiple vehicles plying on the road, the control box is connected to computer network cloud system and the status in every stop is updated instantly in database using Big Data Analytics technology. The detail of occupancy status with date, time may be retrieved.



Fig 1: Data collection and transmission system

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

#### (19) INDIA

(22) Date of filing of Application :31/05/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : IMPROVED RECUMBENT H	BICYCLI	E
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:B62K 3/00 :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ol> <li>NIKHIL</li> <li>Address of Applicant :Student, Department of Mechanical</li> <li>Engineering, Chandigarh University, Gharuan, Mohali, Punjab.</li> <li>Pin-140413. Punjab India</li> <li>NIKHILPREET SINGH</li> <li>NISHANT KAPOOR</li> <li>NARINDER SINGH</li> <li>(72)Name of Inventor : <ol> <li>NIKHILPREET SINGH</li> <li>NISHANT KAPOOR</li> <li>NISHANT KAPOOR</li> </ol> </li> </ol></li></ul>

#### (57) Abstract :

The improved recumbent bike involves various groups of features that can be adjusted so that the rider fits in the bike properly including seat slide, seat recline, handlebar position and variable steering geometry. The adjustable seat sub-system has a sliding mechanism which gives rider a chance to move his seat back and forth and also angular setting can be done. The handling system feels more like a car-type steering system which can work both by handle movements in circular twisting motion as well as the conventional swaying motion according to the desire of the rider. It houses an inside-lock universal joint welded to the fork, which provided the rider multiple ways to manoeuver the bicycle. The system consists of an adjustable seat combined with an innovative adjustable handle mechanism which together forms a complete rider<sup>™</sup>s adjustability system.



Fig 1

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

#### (19) INDIA

(22) Date of filing of Application :31/05/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : TOOL FOR FIXING AND REMOVING ELECTRIC BULB/CFL TUBE AND ITS MECHANISM THEREOF

(51) International classification:F21V19/00(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NAFiling Date:NAKa:NAKa:NAKa:NAFiling Date:NAKa:NA </th <th><ul> <li>(71)Name of Applicant :</li> <li>1)SATBIR SINGH SEHGAL Address of Applicant :Professor, Department of Mechanical Engineering, Chandigarh University, Gharuan, Mohali, Punjab. M:- 8146651622 Punjab India</li> <li>2)RAMAN KUMAR</li> <li>3)PARDEEP SINGH BAINS</li> <li>(72)Name of Inventor :</li> <li>1)SEHGAL SATBIR SINGH</li> <li>2)KUMAR RAMAN</li> <li>3)BAINS PARDEEP SINGH</li> <li>4)KUMAR AMIT</li> </ul></th>	<ul> <li>(71)Name of Applicant :</li> <li>1)SATBIR SINGH SEHGAL Address of Applicant :Professor, Department of Mechanical Engineering, Chandigarh University, Gharuan, Mohali, Punjab. M:- 8146651622 Punjab India</li> <li>2)RAMAN KUMAR</li> <li>3)PARDEEP SINGH BAINS</li> <li>(72)Name of Inventor :</li> <li>1)SEHGAL SATBIR SINGH</li> <li>2)KUMAR RAMAN</li> <li>3)BAINS PARDEEP SINGH</li> <li>4)KUMAR AMIT</li> </ul>
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#### (57) Abstract :

In the present invention, C-Clamps are used to operate adjustable jaws in order to hold and release the base of light bulb/CFL Tube. A joint is provided to get positioning of bulb base with respect to socket. Lever mechanism is provided to get linear motion and handle at the bottom is provided to get rotation motion. The jaws and C-clamps are provided in a cup and rod is attached to the bottom of cup. The height of rod is adjustable and may be adjusted according to the height of socket. A total of three springs are used, one spring is used for working of C-clamp, second spring help in pushing light bulb/CFL Tube inside socket and third is used to lock and unlock the lever. The tool designed by the inventors is light in weight so easily to carry and handle.



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

(22) Date of filing of Application :31/05/2016

(21) Application No.201611018772 A

(54) Title of the invention : TOPICAL ANALGESIC COMPOSITION		
(51) International classification	:A61K 31/00	(71)Name of Applicant : 1)CHITKARA UNIVERSITY
(31) Priority Document No	:NA	Address of Applicant :Chandigarh-Patiala National
(32) Priority Date	:NA	Highway(NH-64) Tehsil Rajpura, Distt. Patiala Punjab,India.
(33) Name of priority country	:NA	Punjab India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. SINGH THAKUR GURJEET
(87) International Publication No	: NA	2)DR. REHNI ASHISH KUMAR
(61) Patent of Addition to Application Number	:NA	3)DHIMAN SONIA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a novel dosage form for use as a topical/cutaneous analgesic wherein the same consists of the drug midazolam along with suitable excipients for formulating as cream, ointment, lotion or dermal spray. Known therapeutic use of Midazolam is as an anti-anxiety drug (oral) and as an anesthetic (injectable) but not as an analgesic. The inventors evaluated existing compounds for therapeutic potential as a topical analgesic free from side-effects. Surprisingly, Midazolam not only emerged as a good candidate with strong analgesic effect when used topically but was also free from any undesirable side-effects. It has very low Primary Irritation Index (PII <2) i.e. it is non-irritating. Further, it did not exert any significant change in the locomotor activity. Effective dosage in test subjects (rats) was found to be 30 mM for topical application and the equivalent dose in humans being was about 1.5 grams per kg body weight.

No. of Pages : 17 No. of Claims : 2

## (12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :18/05/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ZEIN-BASED MICRONEEDLE ARRAY FOR TRANSCUTANEOUS DELIVERY OF DRUGS, VACCINES AND OTHER AGENTS

(51) International classification	:A61M 3/00	<ul><li>(71)Name of Applicant :</li><li>1)Birla Institute of Technology &amp; Science, Pilani</li></ul>
(31) Priority Document No	:NA	Address of Applicant :BITS Pilani, Pilani Campus, Vidya
(32) Priority Date	:NA	Vihar, Pilani, Rajasthan 333031, India Rajasthan India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Venuganti Venkata Vamsi Krishna
Filing Date	:NA	2)Bhatnagar Shubhmita
(87) International Publication 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 biodegradable microneedle that provides mechanical strength and stability for delivering efficiently bioactive agents and/or cosmetics. The microneedle of the present invention has a substrate; array projections integral with or attached to and extending from said substrate is provided wherein the microneedle is made of zein protein. The present invention also provides a process for preparing said microneedle.

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No. of Pages : 54 No. of Claims : 29

#### (19) INDIA

(22) Date of filing of Application :20/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : WIRELESS REAL TIME MONITORING SYSTEM FOR GREEN HOUSE AND BIOLOGICAL OPEN FIELDS

(51) International classification:H04 24/00(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No:NAFiling Date:NA	<ul> <li>W (71)Name of Applicant :</li> <li>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL</li> <li>RESEARCH</li> <li>Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI</li> <li>MARG, NEW DELHI-110001, INDIA Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)NEELIMA SHANKARNARAYANAN LYER</li> </ul>
(87) International Publication 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 monitoring real-time environment in biological open fields and green house is disclosed herein. The system comprises of a plurality of sensor (SNn) to collect the environmental data, such as humidity, temperature, soil moisture, water intake, ambient light from the fields; a plurality of Slave Intelligent Units (SIUn) for receiving and transmitting the environmental data through a wireless network (WL) as well as receiving monitoring instructions; a master intelligent unit (MIU) for receiving, analysing the environmental data from the SIUn, and conveying back the monitoring instructions through the wireless network (WL) to the SIUn; a central intelligent unit (CIU) in wireless communication with the MIU and SIUs for monitoring the communication link between MIU and SIUn; and a control system (CONTR) to control and regulate the environment in the field.



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

#### (19) INDIA

(22) Date of filing of Application :24/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : A LOCK AND SEAL MECHANISM FOR MAXIMUM DEMAND RESET BUTTON OF ELECTRIC METERS

(51) International classification (31) Priority Document No	:G01R22/06 ·NA	(71)Name of Applicant : 1)SUMERI VERDE TECHNOLOGIES PVT_LTD
(32) Priority Date	:NA	Address of Applicant :A-51, Sector-67, Noida-201301, UP,
(33) Name of priority country	:NA	India Uttar Pradesh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Subhasis Ojha
(87) International Publication No	: NA	2)Abhishek Asthana
(61) Patent of Addition to Application Number	:NA	3)Shubham Pal
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

A lock and seal mechanism is provided for MD reset push button in electric energy meters comprising: a lock and seal module, said module further comprising at least one MD reset push button is located on the outer cover of an energy meter for changing/resetting the maximum demand values; and at least one sealing component is in contact with the MD reset push button through a S shaped slidable contact which is movable towards and away from said MD reset push button in the radial direction; wherein: the MD reset push button is sealed by moving the S shaped slidable contact towards MD reset push button through sealing component in order to avoid any unauthorised access of an energy meter; and the S shaped slidable contact moves towards MD reset push button by breaking the sealing component which permits the push button to be operated thereby the maximum demand values are altered by any authorised person. This mechanism avoids sealing wire or spring which makes it cost effective and easily structured one. Figure 4b on Sheet 4 of the drawings may accompany the abstract when published.

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No. of Pages : 18 No. of Claims : 5

(22) Date of filing of Application :25/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A METHOD AND SYSTEM FOR DETECTING PHASE WISE NODE WITH SMART METER

<ul> <li>(71)Name of Applicant :</li> <li>1)SUMERU VERDE TECHNOLOGIES PVT. LTD. Address of Applicant :A-51, Sector-67, Noida-201301, UP, India Uttar Pradesh India</li> <li>(72)Name of Inventor :</li> <li>1)SUBHASIS OJHA</li> <li>2)SHALANDRA VERMA</li> <li>3)ANIL SINGH</li> </ul>

#### (57) Abstract :

A metering chip for a smart energy meter, said chip creating a network of plurality of said metering chip enabled meters is constructed by installing a three phase meter with said metering chip on the distribution transformer acting as a master meter and installing single phase meters with said metering chip on various distribution lines acting as phase meters; the master meter metering chip time stamps zero crossing every time the phase crosses zero and relays it to the phase meters; comparing and matching the time stamped zero crossing every time the master meter sends a new time stamped zero crossing on the phase meter and detecting an unbalanced phase; and optionally, the metering chip in the distribution transformer may be programmed to switch the phases to balance the phase at the phase meter and balance the phase. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.



FIG. 1

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

#### (19) INDIA

(22) Date of filing of Application :14/07/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : A METHOD AND A SYSTEM TO CONTROL EXPENSE AND USAGE OF SUBSCRIPTIONS IN A MOBILE DEVICE

(51) International classification	:H04M15/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SENSORISE DIGITAL SERVICES PVT. LTD.
(32) Priority Date	:NA	Address of Applicant :1372, Sector A, Pocket B, Vasant Kunj,
(33) Name of priority country	:NA	New Delhi - 110070, India Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)HAGGARD, Jonas
(87) International Publication No	: NA	2)ARORA, Sharad
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

A system to control usage of a subscription in a mobile device comprising: a plurality of subscriptions of at least two or more mobile networks; a subscription profile associated with each subscription; a UICC / eUICC / USIM / SIM card capable of switching among different networks; an applet running on the said SIM card; a server which communicates with the said mobile device through a network interface; a server process which stores identity and network related data of each Subscription profile; stores network territory and coverage map; stores history of network drops and Subscription Profile switch events ; stores quota-price-validity-bandwidth attached to each Subscription Profile; connects to the networks providing the subscription profile periodically, to retrieve, calculate and store actual usage and outstanding quota and validity for SMS, data and minutes for each subscription profile; connects to the SIM applet to receive information from the applet about network loss and network coverage; determines and stores best network, preferred network, available network periodically; and communicates and commands the SIM card applet to initiate selection of subscription based on available quota, validity and coverage.



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

#### (19) INDIA

(22) Date of filing of Application :14/07/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SELF-HEATING DERMAL FORMULATIONS AND PROCESS FOR PREPARTION THEREOF

(51) International classification:A611(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NAFiling Date:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)DIRECTOR GENERAL, DEFENCE RESEARCH &amp;</li> <li>DEVELOPMENT ORGANISATION <ul> <li>Address of Applicant :Ministry of Defence, Govt of India,</li> <li>Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New</li> <li>Delhi-110011 (India) Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)NIMBALKAR, Vijay Marotrao</li> <li>2)DESHMUKH, Vinay Prabhakar</li> <li>3)MOHAPE, Mahesh Rajaram</li> <li>4)KATKAR, Vikas Appasaheb</li> <li>5)PANDAV, Shivdas Guranath</li> <li>6)SHUKLA, Ashutosh</li> <li>7)BHATNAGAR, Aseem</li> </ul> </li> </ul>
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(57) Abstract :

The present invention relates to self-heating dermal formulations comprising: a) magnesium powder; b) aluminum powder; c) iron powder; d) a filler; e) an oxidiser; and f) a salt. The present invention also relates to a process for preparation of self-heating dermal formulations. The formulations of the present invention provides prolonged warming.

No. of Pages : 16 No. of Claims : 17

#### (19) INDIA

(22) Date of filing of Application :14/07/2016

(54) Title of the invention : SELF-HEATING MATERIAL SHEETS

(43) Publication Date : 09/02/2018

#### (71)Name of Applicant : 1)DIRECTOR GENERAL, DEFENCE RESEARCH & (51) International classification :B65D1/00 DEVELOPMENT ORGANISATION (31) Priority Document No :NA Address of Applicant : Ministry of Defence, Govt of India, (32) Priority Date :NA Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New (33) Name of priority country :NA Delhi-110011 (India) Delhi India (86) International Application No :NA (72)Name of Inventor: Filing Date :NA 1)NIMBALKAR, Vijay Marotrao (87) International Publication No : NA 2) DESHMUKH, Vinay Prabhakar (61) Patent of Addition to Application Number :NA 3)MOHAPE, Mahesh Rajaram Filing Date :NA 4)KATKAR, Vikas Appasaheb (62) Divisional to Application Number :NA 5)PANDAV, Shivdas Guranath Filing Date :NA 6)SHUKLA, Ashutosh 7)BHATNAGAR, Aseem

#### (57) Abstract :

The present invention relates to self-heating material sheets and more particularly the present invention relates to a self-heating material sheets having three to five layers comprising a) an upper heat protecting sheet having thickness in the range of 2cm to 2.54 cm; b) a second upper sheet containing organic acid having thickness in the range of 2cm to 2.54 cm; c) a middle sheet containing alkaline or alkaline earth metal hydroxide tablet having thickness in the range of 1cm to 2.54 cm; d) a second lower sheet impregnated with electrochemically reacting composition having thickness in the range of 1cm to 2.54 cm; e) a lower heat protecting sheet. The self-heating material sheets of the present invention provide prolonged warming.



No. of Pages : 18 No. of Claims : 11

(22) Date of filing of Application :15/07/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : A BIOMASS COMPOSITION FOR THERMAL INSULATION AND METHOD OF MANUFACTURING THE SAME •

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(34) NA</li> <li>(35) International Application No</li> <li>(36) International Application No</li> <li>(37) International Publication Number</li> <li>(38) NA</li> <li>(39) International Publication Number</li> <li>(30) NA</li> <li>(31) Publication Number</li> <li>(31) Publication Publication Number</li> <li>(31) Publication Publication Number</li> <li>(31) Publication Publicatio</li></ul>	<ul> <li>(71)Name of Applicant :</li> <li>1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI Address of Applicant :VARANASI-221005, UTTAR PRADESH, INDIA Uttar Pradesh India</li> <li>(72)Name of Inventor :</li> <li>1)MANAS RANJAN MAJHI</li> <li>2)SK SADDAM HOSSAIN</li> <li>3)AMAN BHARDWAJ</li> </ul>
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#### (57) Abstract :

The present invention relates to an insulating material comprising rice husk ash, ball clay, refractory grogs and pulverized rice husk and method of manufacturing the same. The present invention provides a method of manufacturing the insulating material from a biomass composition; said method comprises the steps of: mixing rice husk ash 30-70%, ball clay 10-50%, refractory grogs 5-30% and pulverized rice husk 2-15% by weight in dry condition; adding a minimum amount of water to create a mixture; shaping the wet mixture in any desired size and shape using hydraulic press to form a block of the desired shape and size; kilning the block at the range 800°C to 1200°C for 1 - 8 hrs to form a kilned block; soaking the kilned block for 4 hours; and cooling the kilned soaked block within 8 hours. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 16 No. of Claims : 8

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A BIVALENT FUSION PROTEIN FOR PROTECTION AGAINST BACILLUS ANTHRACIS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number</li> <li>Filing Date</li> <li>(62) Divisional to Application Number</li> <li>Filing Date</li> <li>(87) International to Application Number</li> <li>(87) International Publication Number</li> <li>(87) International Publication No</li> <li>(87) International Publication No</li> <li>(87) International Publication No</li> <li>(87) International Publication Number</li> <li>(87) Filing Date</li> <li>(87) International Publication Number</li> <li>(87) International Publication Number</li> <li>(87) International Publication Number</li> <li>(87) International Publication Number</li> <li>(92) Divisional to Application Number</li> <li>(93) Publication Number</li> <li>(94) Publication Number</li> <li>(95) Pub</li></ul>	<ul> <li>(71)Name of Applicant :</li> <li>(71)Name of Applicant :</li> <li>(71)The Director General, Defence Research And</li> <li>Development Organisation (DRDO)</li> <li>Address of Applicant :Ministry Of Defence, Govt. of India,</li> <li>Room No. 348, B- Wing, DRDO Bhawan, Rajaji Marg, New</li> <li>Delhi-110011, India Delhi India</li> <li>(72)Name of Inventor :</li> <li>(72)Name of Inventor :</li> <li>(72)Name of Inventor :</li> <li>(72)VABALAJI, Joseph Kingston</li> <li>(73)DAS, Shreya</li> <li>(74)SHIVAKIRAN, Makam</li> <li>(75)BATRA Harsh Vardhan</li> </ul>
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(57) Abstract :

The present invention pertains to the construction of a novel chimeric gene encoding a 30 kDa bivalent fusion protein encompassing fourth domain of protective antigen (PA) and binding domain of Bacillus collagen like antigen (BclA) of Bacillus an thracis. The bivalent fusion protein elicited protective immune response and has utility as an effective candidate vaccine molecule against Bacillus an thracis.



No. of Pages : 30 No. of Claims : 11

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : RESONANCE MITIGATION IN RF HIGH POWER AMPLIFIER ENCLOSURE

(51) International classification:G01V3/0(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(86) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NAFiling Date:NA(63) Divisional to Application Number:NAFiling Date:NA(64) Patent of Addition Number:NA(65) Divisional to Application Number:NAFiling Date:NA	<ul> <li>(71)Name of Applicant : <ol> <li>Centre For Development Of Telematics</li> <li>Address of Applicant :Centre For Development Of Telematics,</li> <li>C-DOT Campus, Mandi Road, Mehrauli, New Delhi-110030,</li> <li>India. Delhi India</li> <li>(72)Name of Inventor : <ol> <li>S., Theepak</li> <li>NAMBURI, Vijaya Suresh</li> <li>R., Selvapriya</li> <li>B., Devadas</li> <li>SOUNDARAKUMAR, Masilamani</li> <li>TYAGI, Vipin</li> </ol> </li> </ol></li></ul>
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#### (57) Abstract :

Aspects of the present disclosure generally relate to a RF high power amplifier designed for resonance mitigation. A method for resonance mitigation in RF high power amplifier enclosure and an enclosure for RF high power amplifier designed to mitigate resonance is provided. In an aspect, the enclosure can be configured with a metallic post or a grounded metallic post positioned at a suitable location with RF high power amplifier circuit to dampen and shift out resonance. In an aspect, the metallic post can be placed between printed circuit board (PCB) substrate and enclosure lid. Proposed metallic post solution eliminates the need of RF absorber in the design.



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

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : A REPLACEABLE BADGE AND METHOD THEREOF		
<ul> <li>(54) Title of the invention : A REPLACEABLE BA</li> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:A41D1/08 :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>(71)Name of Applicant :</li> <li>1)KHURANA, Anil Address of Applicant :F-33/5 Okhla phase 2, New Delhi -</li> <li>110020, India Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)KHURANA, Anil</li> </ul>
(62) Divisional to Application Number	:NA	
Filing Date	INA	

(57) Abstract :

The present invention provides a replaceable badge (100) comprising a polymer layer (110) having a first surface (112) and a second surface (114), at least one image provided on the first surface (112), a fabric layer (120) having a third surface (122) and a fourth surface (124) and a puller (130) placed between the polymer layer (110) and the fabric layer (120). Further, the fabric layer (120) is stitched to the polymer layer (110) along with the puller (130), such that the second surface (114) faces the third surface (122). Further a method (300) for manufacturing the replaceable badge (100) and a reconfigurable fabric based accessory (200) are also provided.

No. of Pages : 24 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION (21) Application No.201611026461 A (19) INDIA (22) Date of filing of Application :03/08/2016 (43) Publication Date : 09/02/2018 (54) Title of the invention : TAILGATE FOR INSTALLING ON A VEHICLE SO AS TO BE ABLE TO PIVOT ABOUT A TRANSVERSAL AXIS OF THE VEHICLE (51) International classification :B60J5/10 (71)Name of Applicant : (31) Priority Document No :NA 1)RENAULT s.a.s (32) Priority Date :NA Address of Applicant :13-15, Quai Alphonse Le Gallo, 92100 (33) Name of priority country Boulogne Billancourt, France France :NA (86) International Application No (72)Name of Inventor: :NA Filing Date :NA 1) JAYAPANDIYAN Raja (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA

(57) Abstract :

Filing Date

This tailgate (8) is of the type for installing on an automotive vehicle (2) so as to be able to pivot about a transversal axis (  $y \rho$  ) of the vehicle (2) between a closed vert icalposit ion and an open vertical posit ion, said tailgate (8) including a panel (10) comprising aninne rsurface (20) and an outer surface (19), the pane(10) being provided with a cavity (22, 24, 26) proximal to the outer surface (19), said tailgate (8) further including a rear element (28, 30, 32) located inside the cavity (22, 24, 26). The cavity (22, 24, 26) extends from the outer surface (19) to the inner surface (20), the rear element (28, 30, 32) being able to pivot relative to the panel (10) so as to point into a rear direction relative to the vehicle (2) either when the tailgate (8) is in it s closed posit ion and when the tailgate (8) is in it s open posit ion.

:NA

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

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : MEF2A GENE EXPRESSION IN CORONARY ARTERY DISEASE PATIENTS

(51) International classification	:C12Q1/68,	(71)Name of Applicant :
(31) Priority Document No	:NA	1)AMITY UNIVERSITY
(32) Priority Date	:NA	Address of Applicant : AMITY UNIVERSITY CAMPUS,
(33) Name of priority country	:NA	SECTOR 125 NOIDA-201313, UTTAR PRADESH, INDIA Uttar
(86) International Application No	:NA	Pradesh India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)APARNA SARKAR
(61) Patent of Addition to Application Number	:NA	2)PRIYANKA SHARMA
Filing Date	:NA	3)MRITUNJAY KUMAR SINGH
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides MEF2A gene expression in coronary artery disease (CAD) patients. Pathogenesis of CAD is based on the gene expression analysis. MEF2A directly regulates target genes in the process of muscle development. This gene product is a transcription factor. MEF2A protein is homodimer or heterodimer forms binds to A/T-rich Cis elements with conserved sequence in promoter, regulator, and enhancer of many genes, which are determining in evolution and development of skeletal, heart, and smooth muscle cells, especially endothelial cells

No. of Pages : 29 No. of Claims : 6

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SYNTHESIS OF 5', 5' -DIBUTYL-3', 3' -DIMETHYLPIRO [BENZO[C][1,2] OXATHIOLE-3,2'-4,6-DIOXA-5-STANNA-1,3(1,4)-DIBENZENACYCLOHEXAPHANE]1,1-DIOXIDE FOR THERAPEUTIC APPLICATIONS

(51) International classification	:C07D213/30	(71)Name of Applicant :
(31) Priority Document No	:NA	1)AMITY UNIVERSITY
(32) Priority Date	:NA	Address of Applicant : AMITY UNIVERSITY CAMPUS,
(33) Name of priority country	:NA	SECTOR 125 NOIDA UTTAR PRADESH-201313, INDIA Uttar
(86) International Application No	:NA	Pradesh India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)ANITA GUPTA
(61) Patent of Addition to Application Number	:NA	2)ROHIT BABU ANYERY
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides synthesis of 5t,5!-dibutyl-3t 3tdimethylspiro[ benzo[c][132]oxathiole-352-456-dioxa-5-stanna-1,3(1,4)-dibenzenacyclohexaphane] 1,1 -dioxide. The complex is synthesized by conventional method. 0.22 g of dibutyltin(IV) pxide was used as starting material to which mixture of ligand (3,3-bis(4-hydroxy-3-methylphenyl)-3Hbenzo[ c][1,2]oxathiole 1,1 -dioxide), dry benzene (60 ml) and absolute ethanol (20 ml) are added. The reaction mixture is refluxed azeotropically for 5.5 hrs. After removal of water from the reaction mixture, the product obtained is extracted and washed with chloroform and dried in vacuum. The product obtained is characterized by UV -Visible and H NMR, 13CNMR.

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

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : SYNTHESIS OF NOVEL COMPLEX STANNANE DERIVED FROM BENZENE-1,3-DIOL

(51) International classification	:C07C217/58	(71)Name of Applicant :
(31) Priority Document No	:NA	1)AMITY UNIVERSITY
(32) Priority Date	:NA	Address of Applicant : AMITY UNIVERSITY CAMPUS,
(33) Name of priority country	:NA	SECTOR 125 NOIDA-201313 , UTTAR PRADESH , INDIA
(86) International Application No	:NA	Uttar Pradesh India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)ANITA GUPTA
(61) Patent of Addition to Application Number	:NA	2)ROHIT BABU ANYERY
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides synthesis of novel stannane derived from benzene- 1,3-diol. The complex is synthesized by conventional method. Dibutyltin(IV) oxide is used as starting material to which mixture of ligand (Benzene- 1,3-diol), dry benzene arid absolute ethanol are added. The reaction mixture is refluxed azeotropically for few hrs. After removal of water from the reaction mixture, the product obtained is extracted and washed with chloroform and dried in vacuum. The complex obtained in the synthesis process is charecterized by UV -Visible and H NMR, 13C£JMR, Mass spectroscopy and XRD.

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

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : PLASMONIC SILVER-GLASS NANOCOMPOSITE COATING ON SILICA AND SILICON SUBSTRATES AND ITS PREPARATION BY SCREEN PRINTING TECHNIQUE

(51) International classification :C0	07K17/06	(71)Name of Applicant :
(31) Priority Document No :NA	A	1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL
(32) Priority Date :NA	A	RESEARCH
(33) Name of priority country :NA	A	Address of Applicant : ANUSANDHAN BHAWAN, 2 RAFI
(86) International Application No :NA	A	MARG, NEW DELHI-110001 ,INDIA Delhi India
Filing Date :NA	A	(72)Name of Inventor :
(87) International Publication No : N	A	1)KARMAKAR BASUDEB
(61) Patent of Addition to Application Number :NA	A	2)TARAFDER ANAL
Filing Date :NA	A	
(62) Divisional to Application Number :NA	A	
Filing Date :NA	A	

#### (57) Abstract :

Plasmonic silver-glass nanocomposite coating on silica and silicon substrates and its preparation by screen printing technique The present invention provides plasmonic silver-glass nanocomposite coating on silica and silicon substrates by screen printing for silicon-solar cell application by screen printing technique for use in silicon photovoltaic cell having the glass composition (wt% of) (i) 8 wt% Na20, 12 wt% K20, 13 wt% BaO, 2 wt% A1203, 15 wt% B203, 49.8 wt% SiQ2, 0.05 to 0.2 wt% Ag and 0.1 to 0.3wt% SnO (in-situ) as well as (ii) 8 wt% Na20, 12 wt% K20, 13 wt% BaO, 2 wt% A1203, 15 wt% B203, 15 wt% B203, 50 wt% SiO2 (ex-situ) and a process for the preparation thereof. The transparency and plasmonic absorption band of the invented plasmonic silver (Ag )-glass nanocomposite coatings can be tailored to enhance the efficiency of Si-photovoltaic. The plasmonic band position and band width vary in the ranges 400-480 and 46-238 nm, respectively. The invented transparent plasmonic silver (Ag )-glass nanocomposite coatings are found to be crack-free as well as thermally and chemically durable.

No. of Pages : 27 No. of Claims : 8

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A MODIFIED AUXILIARY OVERLAY ARCH WIRE TECHNIQUE WITH "JTM HOOK

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> </ul>	:A61C7/12 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)KING GEORGE<sup>TM</sup>S MEDICAL UNIVERSITY Address of Applicant :Lucknow Uttar Pradesh-226003 India Uttar Pradech India</li> </ul>
<ul> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:NA :NA :NA : NA	<ul> <li>(72)Name of Inventor :</li> <li>1)Dr. GYAN PRAKASH SINGH</li> <li>2)Dr. PRADEEP TANDON</li> </ul>
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA	3)Dr. DIPTI SHASHTRI

(57) Abstract :

The present invention provides a modified auxiliary arch wire technique by the use of  $^{TJ^{TM}}$  hook crimped at distal end of auxiliary wire and traction force (E- chain, E-module or ligature wire) is applied from the  $^{TJ^{TM}}$  hook to the hook of 5 Molar buccal tube.  $^{TJ^{TM}}$  hook can be easily fabricated by joining a wire to hollow S. S. tubing (syringe needle-Internal lumen) and cut at both the ends at a distance away from soldered joint.  $^{TJ^{TM}}$  hooks can be used unilaterally or bilaterally according to the clinical need.



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

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(54) Title of the invention : BRAILLE PRINTER		
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(32) Nome of priority country</li> </ul>	:B41K3/36 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)RAI, Khushwant</li> <li>Address of Applicant :466, Mohan Vihar, Ladhewali, Punjab-</li> </ul>
<ul> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:NA :NA :NA : NA	(72)Name of Inventor : 1)RAI, Khushwant
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA	

(57) Abstract :

The present invention relates to an improved Braille printer for embossing Braille characters, comprising a cylindrical metal sleeve having a plurality engraved divots wherein the plurality of engraved divots have size similar to standard Braille dots with standard Braille cell distance between adjacent die to allow plurality of strike pins to penetrate into Braille paper, a roller, a driver and an improved printing head wherein the printing head comprises a plurality of strike pins, a plurality of low-power control electromagnets, a plurality of control pins, a force electromagnet and a metallic flap wherein the metallic flap is pulled by the force electromagnet such that the metallic flap takes forward the selected strike pins. The printing head has an aluminium body wherein the aluminium body acts as heat sink.

No. of Pages : 30 No. of Claims : 19

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

(54) The of the invention . MACLEC AD VAIVEL	SWACCH-DIL	
(51) International classification	:C05F9/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)NARAYAN BHARDWAJ
(32) Priority Date	:NA	Address of Applicant :SHOP NO. 115, WEST END MALL,
(33) Name of priority country	:NA	DISTRICT CENTRE, JANAK PURI WEST, NEW DELHI-
(86) International Application No	:NA	110058, INDIA Delhi India
Filing Date	:NA	2)BALRAM BHARDWAJ
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)NARAYAN BHARDWAJ
Filing Date	:NA	2)BALRAM BHARDWAJ
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

### (54) Title of the invention : MACLEC ADVANCE SWACCH-BHARAT TRASH - MAST

(57) Abstract :

Solid waste collection and its management is the basic problem in all over the world in general and developing countries such as India in particular. Existing methodology of solid waste recovery in developing countries consisting of placing dustbins in roadside corners, colonies, parks and all such public places for collecting garbage/household waste and collection of garbage time to time using mobile vehicles delivering good results but its impact in terms of Indian society is not that much effective. To encourage people in India to use public dustbins is a problem in one hand and to collect the garbage from dustbins timely is another big issue on the other hand. Timely collection of garbage in developing countries is a big issue as the amount of garbage recovered from the dustbins are always lower than the capacity of the garbage collection vehicle because the garbage stored in ordinary dustbins remain in un-compressed state and due to which the whole capacity of dustbin remain unused so as with the garbage collection vehicle and the staff. MAST is a renewable energy powered garbage compactor, consisting of power source, power storage, compaction mechanism,

\_Aealthj2heck=up=facility make it user friendly, sustainable, feasible, economic solution for solid waste collection for the whole world in general and the-developing countries such and India in particular.

No. of Pages : 5 No. of Claims : 1

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A BAKED FOOD PRODUCT COMPRISING SWEET POTATO AND A METHOD FOR PREPARATION THEREOF

(57) Abstract :

The present disclosure relates to the field of nutrition in general, and baked food product from sweet potato in particular. The present disclosure relates to a ready-to-eat, fibre-rich, baked product and its method of preparation. Particularly, the present disclosure relates to ready-to-eat, fibre-rich, baked snack product comprising sweet potato, oats, powdered milk and sweetener. The baked food product may be enrobed with chocolate and may have a centre filling. The baked food product provides energy, protein, carbohydrates, minerals, beta-carotene, dietary fiber, Vitamin B5, Vitamin B6, Manganese, Antioxidants, fibre, amino acid and omega-3 fatty acids.

No. of Pages : 28 No. of Claims : 18

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PEPTIDE ELICITOR OF INSECT, AND PATHOGEN DEFENSE IN BRASSICA

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(36) Intermetional Application No</li> </ul>	:C07D339/04 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH</li> <li>(ICAR)</li> <li>Address of Applicant :Krishi Bhawan 1 Dr. Rajendra Prasad</li> </ul>
(80) International Application No Filing Data	INA INA	Koad, New Deini 110001, India Deini India
(97) Internetional Dublication No.		(72) Name of inventor:
(87) International Publication No	: NA	1)BHATTACHAKYA, Kamcharan
(61) Patent of Addition to Application Number	:NA	2)KORAMUTLA, Murali Krishna
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a cDNA molecule comprising a sequence encoding a peptide, which is useful in managing aphid infestation, and Alternaria blight in plants, particularly Indian mustard. Also provided are reagents, and methods of management of aphid infestation by application of said peptide to plant parts.



No. of Pages : 53 No. of Claims : 11

### (19) INDIA

(22) Date of filing of Application :04/08/2016

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : SILVER NANOPARTICLES IMPREGNATED NANOPOROUS CARBON NANOFIBER PLATFORM FOR BIOSENSOR APPLICATION

(51) International classification :C25E 11/14	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR
(31) Priority Document No :NA	Address of Applicant :Dean, Research & Development, Room
(32) Priority Date :NA	Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur,
(33) Name of priority country :NA	Uttar Pradesh, India 208016 Uttar Pradesh India
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)SHARMA, Ashutosh
(87) International Publication No : NA	2)MONDAL, Kunal
(61) Patent of Addition to Application Number :NA	3)MALHOTRA, Bansi, D.
Filing Date :NA	4)ALI, Md. Azahar
(62) Divisional to Application Number :NA	5)SINGH, Chandan
Filing Date :NA	6)SUMANA, Gajjala

(57) Abstract :

The present invention relates to biosensors made of silver nanoparticle impregnated carbon nanofibers and carbon nanofibers used for the detection of triglyceride in a sample. The present invention also relates a process for preparing biosensors made of silver nanoparticle impregnated carbon nanofibers and carbon nanofibers.

No. of Pages : 52 No. of Claims : 16

#### (19) INDIA

(22) Date of filing of Application :05/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : SIMPLIFIED LIQUID DROPLET EROSION TESTER			
(51) International classification	:A61B17/04	(71)Name of Applicant :	
(31) Priority Document No	:NA	1)IIT ROPAR	
(32) Priority Date	:NA	Address of Applicant :Nangal Road, Rupnagar, Punjab -	
(33) Name of priority country	:NA	140001, India Punjab India	
(86) International Application No	:NA	(72)Name of Inventor :	
Filing Date	:NA	1)HARPREET SINGH GREWAL	
(87) International Publication No	: NA	2)HARPREET SINGH	
(61) Patent of Addition to Application Number	:NA	3)ANUPAM AGRAWAL	
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

### (57) Abstract :

The present invention provides a simplified, and eco-friendly liquid droplet erosion test rig. The test rig comprises a nozzle, a first pipe connected to a water tank through a pump, a second pipe connected to an air source through a compressor as source of air and test/sample unit for receiving the metal sample. The nozzle sprays a jet of water droplets at a high velocity to erode an area of the test metal. The water supplied to the nozzle through the first pipe is mixed with the compressed air supplied through the second pipe to atomize the water into water droplets and to increase a velocity of the water droplets. The velocity of water droplets sprayed on the sample depends on a ratio of nozzle diameter and air inlet pipe diameter; compressed air-pressure and flow rate, and distance between air outlet and the nozzle.

No. of Pages : 34 No. of Claims : 3

#### (19) INDIA

(22) Date of filing of Application :05/08/2016

#### (43) Publication Date : 09/02/2018

# (54) Title of the invention : SYSTEM FOR INFLATION PARAMETERS MEASUREMENT OF PNEUMATIC SEAL UNDER POSITIVE AND NEGATIVE PRESSURE GRADIENT ACROSS THE INFLATED SEAL

(51) International classification:F23(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(36) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NAFiling Date:NAFil	<ul> <li>(71)Name of Applicant :</li> <li>1)Director General, Defence Research &amp; Development Organisation (DRDO) Address of Applicant :Ministry of Defence, Defence Research &amp; Development Organisation, DRDO Bhavan, Rajaji Marg, New Delhi 110011, India Delhi India</li> <li>(72)Name of Inventor :</li> <li>1)Ajitendra Singh Parihar</li> <li>2)Neha Agrawal</li> <li>3)Vineeta Nigam</li> <li>4)Durgesh Nath Tripathi</li> <li>5)Arvind Kumar Saxena</li> </ul>
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#### (57) Abstract :

A system 100 for measuring inflation parameters, including, but not limited to, a proper inflation pressure, inflation gap, contact area with the sealing surface • for a pneumatic seal under positive and negative pressure gradient, and evaluating the performance of the pneumatic seal under varying stages of the inflated height and pressure gradient is described. In the proposed system, the pneumatic seal is mounted on a bottom plate 104, and an upper plate 102 height is variably adjusted. There is a valve 108 for supplying compressed air to inflate the pneumatic seal, and measure and evaluate the inflation patterns and the sealing efficiency under the specified pressure gradient. The pressure gradient is created from the upper plate valve 112 by supplying compressed air when the seal is fully inflated, and also the vacuum is applied to create negative pressure gradient. Here, the inflation parameters can be determined for any pressure gradient and inflation gap.



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

#### (19) INDIA

(22) Date of filing of Application :06/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A PROCESS FOR PURIFICATION OF SUGAR FACTORY CONDENSATES AND EFFLUENT USING A NOVEL APPARATUS •

<ul> <li>(86) International Application No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(87) International Publication No</li> <li>(87) International Publication Number</li> <li>(87) In</li></ul>	<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	:A47J44/00 :NA :NA :NA :NA :NA : NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)NATIONAL SUGAR INSTITUTE (NSI) Address of Applicant :National Sugar Institute, G.T. Road, Kalyanpur, Kanpur, Uttar Pradesh, India-208017. Uttar Pradesh India</li> <li>(72)Name of Inventor :</li> <li>1)Narendra Mohan</li> <li>2)Seema Paroha</li> <li>3)Mahendra Kumar Yadav</li> <li>4)Vijay Kumar Maurya</li> </ul>
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#### (57) Abstract :

A process for purification of sugar factory condensates and effluent using a novel apparatus •, said apparatus comprising an electrocoagulation unit (1) with MP-P arrangement, attached to an advanced oxygen chamber (1a) for dosing of H2O2 or O3 for advance oxidation process, a clarifier (2) connected further to said EC unit (1), a pressurised sand filter (3) connected in series with said clarifier (2) to check escaping of micro particulate sludge, an activated carbon column (4) connected in series with capacitive deionization column for further treatment of treated water, and a capacitive-deionisation/ ion-exchange column (5) connected in series with activated carbon filter (4) on one side and with the outlet on the other for due removal of mineral and hardness of from effluent/ condensate water so as to bring total dissolved solid of effluent water up to the range of potable water, wherein the process involves optimization of parameters and input.

No. of Pages : 28 No. of Claims : 16

#### (19) INDIA

(22) Date of filing of Application :07/08/2016

#### (43) Publication Date : 09/02/2018

# (54) Title of the invention : A METHOD OF MOUNTING A DUAL PULLEY HIGH POWER ALTERNATOR IN SPACE CONSTRAINED BOGIES OF RAILWAY VEHICLES AND LIKE TRANSITS AND METHODS THEREOF.

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	:F02M37/04 :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Sanjeev Kumar Address of Applicant :1201, URBAN ESTATE, PHASE-1, JALANDHAR, PUNJAB-144001. Punjab India</li> <li>(72)Name of Inventor :</li> <li>1)Sanjeev Kumar</li> </ul>
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

A method of mounting a dual pulley high power alternator in space constrained bogies of railway vehicles and like transits and methods thereof. A dual pulley high power alternator (2), mounted firmly on the upper side of the LHB bogie<sup>TM</sup>s (1) crossbeam (10) with at least one set of the bogies plurality disc brakes (7) removed and / or replaced, exchanged with the compact tread brake system (110); Thereby providing more space on the said bogies crossbeam and its axle for installing the said alternator. The bogie<sup>TM</sup>s H-frame (106) further extended beyond the wheels with cantilever beams (94) firmly welded at the two ends said H-frame thus creating an over-hang which is welded together with a flat horizontal beam (105) to mount the said alternators with top foot mounting (93) or bottom suspension bracket (52) mounting arrangement; and plurality hexagonal V-belts (99) to drive the said alternators through drive pulley along with belt tensioning arrangement (433) having plurality rollers placed on the said plurality power regulator (15) to adjust, control, isolate the faulty plurality alternator and the coach<sup>TM</sup>s load circuit (166) in the events of failure, thereby providing redundancy, passenger comfort yet retaining the braking potential and high speed operation of space constrained LHB bogies (1). Dated this 7th day of August, 2016. (SANJEEV KUMAR) APPLICANT To The Controller of Patents The Patent Office At New Delhi.

No. of Pages : 31 No. of Claims : 12

(22) Date of filing of Application :08/08/2016

(54) Title of the invention : HIGH BYPASS JET ENGINE.			
(51) International classification	:F02M37/04	(71)Name of Applicant :	
(31) Priority Document No	:NA	1)SATYAM	
(32) Priority Date	:NA	Address of Applicant :2D/140, AWAS VIKAS HANSPURA,	
(33) Name of priority country	:NA	NAUBASTA, KANPUR-208021, U.P., INDIA Uttar Pradesh	
(86) International Application No	:NA	India	
Filing Date	:NA	(72)Name of Inventor :	
(87) International Publication No	: NA	1)SATYAM	
(61) Patent of Addition to Application Number	:NA		
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

(57) Abstract :

This invention is reiaiea 10 a jet engine more particularly high bypass turbofan engine .This engine uses hollow bypass duct by fixing axial compressor blades in bypass duct called bypass compressor. Multistage axial rotating fan blades fixed in bypass duct(over core) called bypass rotor and axial stator on bypass(fixed with outer cover) called bypass stator. To cool gas generator a comparatively small bypass is providefd. A fan is fixed behind tip fan leaving apace for stator called secondaryfan which provides motion for bypass rotor. It is noticeable that In case of multishaft turbine secondary fan can be paced with any core shaft to vary size of bypass compressor.

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

#### (19) INDIA

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : FLEXIBLE REUSABLE SELF HEATING/WARMING SYSTEM FOR FOOD PACKETS

		(71)Name of Applicant :
(51) International classification	:F28F1/32	1)DIRECTOR GENERAL, DEFENCE RESEARCH &
(31) Priority Document No	:NA	DEVELOPMENT ORGANISATION
(32) Priority Date	:NA	Address of Applicant : Ministry of Defence, Govt of India,
(33) Name of priority country	:NA	Room no. 348, B-wing, DRDO Bhawan, Rajaji Marg, New Delhi,
(86) International Application No	:NA	India 110011 Delhi India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)RAMAKRISHNA, Alappa
(61) Patent of Addition to Application Number	:NA	2)RAO, Naveen Srinivas
Filing Date	:NA	3)NANJAPPA, Shivshankar
(62) Divisional to Application Number	:NA	4)PANDEY, Vidya, Sagar
Filing Date	:NA	5)KHAMARI, Pratap
-		6)SHARMA, Gopal Kumar

#### (57) Abstract :

The present invention provides a reusable, flexible container for food includes an inner chamber contained within and self sealable from the food containing area of the food packet, wherein the inner chamber includes an external opening. A portable rechargeable heating element is provided that an insulated sleeve with electric resistive heating element pluggable into external source of energy. A trigger for container is provided that includes an impermeable flexible membrane, a first trigger element attached to the inside of the flexible membrane and movable with the flexible membrane; and a second trigger element mounted so as to not move with the flexible membrane, such that when the flexible membrane is connected the first trigger element contacts the second trigger element, thereby causing triggering heat-up process. This heat energy can be transferred to food within a container through the walls of a heating element within the container.



No. of Pages : 20 No. of Claims : 15

#### (19) INDIA

(22) Date of filing of Application :06/05/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : TRIPLE-LAYER WOUND DRESSING MATERIAL AND METHOD OF PREPARATION THEREOF

(51) International classification	· 4611 15/18	(71)Name of Applicant .
(21) Priority Decument No.	.A01L15/10	
(31) Fliolity Document No	.INA	
(32) Priority Date	:NA	Address of Applicant : Hauz Khas, New Delhi 110 016,
(33) Name of priority country	:NA	(India). Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)KOUL, Veena
(87) International Publication No	: NA	2)BHOWMICK, Sirsendu
(61) Patent of Addition to Application Number	:315/DEL/2012	3)PRASAD, Thanusha Arani Varamuni
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to a triple-layer wound dressing material and method of preparation thereof. Particularly, the present invention provides a triple-layer wound dressing material comprising (a) an innermost layer comprising a composite scaffold, (b) a middle layer comprising polyvinyl alcohol (PVA) hydrogel and a polymeric material coated metallic nanoparticles, and (c) a top layer comprising a polymeric membrane. The composite scaffold comprises bioactive components and a hybrid polymer of a synthetic polymer and a biopolymer. The composite scaffold improved the mechanical properties and provides desired degradation profile to the wound dressing material and also provided an artificial microenvironment required for cellular proliferation and signalling during dermal regeneration



No. of Pages : 36 No. of Claims : 18

#### (19) INDIA

(22) Date of filing of Application :05/08/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : COOKING APPARATUS			
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:A47J44/00 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SUDHIR, Sanandan Address of Applicant :18-D, Dhruv Apts., Sec 13/43, Rohini, Delhi - 110085, India. Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>1)SUDHIR, Sanandan</li> </ul>	
<ul><li>(87) International Publication No</li><li>(61) Patent of Addition to Application Number</li></ul>	: NA :3051/DEL/2010		
Filed on (62) Divisional to Application Number Filing Date	:01/01/1900 :NA :NA		

(57) Abstract :

The present disclosure relates to a cooking apparatus having a base; a cooking container configured on the base; and a top lid that is configured to cover the cooking container so as to allow multiple modes of cooking, wherein the top lid is coupled with at least one magnetron that acts as a source of microwaves, such that in at least a first configuration, covering of the top lid enables microwave cooking using the magnetron, and in at least a second configuration, the cooking container is used to enable any or a combination of induction, open flame, radiation, convection, and conduction cooking.

No. of Pages : 35 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :25/07/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : ELEVATOR

(51) International classification	:B66B	(71)Name of Applicant :
(21) Priority Document No	:2016-	1)Hitachi, Ltd.
(51) Thomy Document No	155183	Address of Applicant :6-6, Marunouchi 1-chome, Chiyoda-ku,
(32) Priority Date	:08/08/2016	Tokyo 100-8280, Japan Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:NA	1)Shinsuke INOUE
Filing Date	:NA	2)Naoto OHNUMA
(87) International Publication No	: NA	3)Naoki TAKAYAMA
(61) Patent of Addition to Application Number	:NA	4)Tomoaki TERUNUMA
Filing Date	:NA	5)Gorou SATOU
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The elevator includes a car, a drive unit for moving the car by rotating a rotary body connected to the car, a brake for applying a braking force to the rotary body, an elevator control unit for controlling an operation of the car, a brake control unit for changing a brake torque of the brake stepwise for releasing upon reception of a start signal of the elevator from the elevator control unit, and a torque control unit for controlling a torque of the drive unit to approximate the car speed to zero upon reception of the start signal of the elevator from the elevator control unit.

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

#### (19) INDIA

(22) Date of filing of Application :26/07/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : ELEVATOR SYSTEM

(51) International classification	:B66B13/14	(71)Name of Applicant :
(31) Priority Document No	:2016- 155900	1)Hitachi, Ltd. Address of Applicant :6-6, Marunouchi 1-chome, Chiyoda-ku,
(32) Priority Date	:08/08/2016	Tokyo 1008280, Japan Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:NA	1)Shaojun FENG
Filing Date	:NA	2)Jun TORIYABE
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

### (57) Abstract :

Upon recovery from a power outage of a power source, time required to reactivate an elevator is to be reduced. An elevator system includes: a cage position calculation device that calculates an absolute position of a cage moving up and down in a hoistway of an elevator on the basis of a position detecting signal indicative of a detected position of the cage and an encoder signal including a traveling speed and traveling position of the cage; an elevator driving control device that controls driving of the elevator; a power outage detector that detects a power outage of a power source for supplying electric power to the cage position calculation device; a brake release detector that detects whether a manual brake release action is performed or not; and a storage device that stores a detection result of the brake release detector when the power outage is detected by the power outage detector, wherein when the elevator driving control device refers to stored content of the storage device upon recovery of the power source and cannot acquire information indicating performance of the manual brake release action, the elevator driving control device controls driving of the cage on the basis of the absolute position of the cage which is calculated by the cage position calculation device.

No. of Pages : 18 No. of Claims : 3
#### (19) INDIA

(22) Date of filing of Application :17/07/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : MONITOR AND CONTROL OF SURFACE TRAFFIC AT AIRPORT •			
(51) International classification	:G08G 5/00	(71)Name of Applicant :	
(31) Priority Document No	:201641026764	1)HONEYWELL INTERNATIONAL INC.	
(32) Priority Date	:05/08/2016	Address of Applicant :115 Tabor Road, PO Box 377, Mail	
(33) Name of priority country	:India	Stop: 4D3, Morris Plains, New Jersey 07950, USA U.S.A.	
(86) International Application No	:NA	(72)Name of Inventor :	
Filing Date	:NA	1)ANANDAPPAN, Thanga	
(87) International Publication No	: NA	2)ROY, Aloke	
(61) Patent of Addition to Application Number	:NA	3)SHENDE, Chinmaey Sharad	
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

(57) Abstract :

A surface movement, guidance and control system is provided. The system includes a plurality of base stations, disposed at a site, each base station providing a coverage area and having a known geo location and using an IP-based high data rate radio link with low latency. Each base station is adapted to receive periodic positional updates from vehicles on the site over the IP-based high data rate radio link. The system also includes a server. The server is communicatively coupled to the plurality of base stations. The server is configured to track and periodically transmit the location of the vehicles to the base stations. Each base station broadcasts vehicle position information.

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

#### (19) INDIA

(22) Date of filing of Application :19/07/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : FUEL PUMP HOUSING WITH AN INTEGRATED DEFLECTOR •

(51) Intermetional classification E01V15	00 (71) Nome of Applicant.
(51) International classification .F01K15/	(71)Name of Applicant :
(31) Priority Document No :15/226,9	38 1)FORD GLOBAL TECHNOLOGIES, LLC
(32) Priority Date :03/08/20	16 Address of Applicant :Fairlane Plaza South, Suite 800, 330
(33) Name of priority country :U.S.A.	Town Center Drive, Dearborn, MI 48126, United States of
(86) International Application No :NA	America U.S.A.
Filing Date :NA	(72)Name of Inventor :
(87) International Publication No : NA	1)Theodore Beyer
(61) Patent of Addition to Application Number :NA	2)Edna L. Richards
Filing Date :NA	3)Jonathan Robert Burns
(62) Divisional to Application Number :NA	4)Bryan McKeough
Filing Date :NA	5)Robert S. Parker

(57) Abstract :

Some gasoline engines have a high-pressure fuel pump that is driven by a rotating component of the engine such as the camshaft or crankshaft. In the event of a crash, the fuel lines coupled to the engine should remain intact to avoid fuel spillage. It is known in the prior art to provide a separate bracket to provide the protection. However, such bracket is a separate piece that must be separately assembled, coupled to components of the engine requiring mounting holes, and adds to the part count of the engine. By integrating a deflector with a fuel pump component, the bracket is obviated.

No. of Pages : 17 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :20/07/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : FEATURES TO PREVENT CROSS-CONTAMINATION OF ENDOSCOPE FROM REPROCESSING SYSTEM

(51) International classification :A61M5	14 (71)Name of Applicant :
(31) Priority Document No :15/230,	561 1)ETHICON, INC.
(32) Priority Date :08/08/2	Address of Applicant :U.S. Route #22, Somerville, New Jersey
(33) Name of priority country :U.S.A.	08876, U.S.A.
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)NGUYEN, Nick N.
(87) International Publication 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 reprocessing system includes a decontamination basin, a lid, a cleaning assembly, an exterior body, and an actuating panel assembly. The lid is configured to enclose the interior surface of the decontamination basin in a closed configuration. The lid and an interior surface of the decontamination basin are configured to cooperate to house a medical device when in the lid is in the closed configuration. The cleaning assembly is operable to clean a medical device housed in the decontamination basin. The actuating panel assembly is configured to transition between a withdrawn position and an extended position. The actuating panel assembly is configured to extend above a portion of the exterior body while the actuating panel assembly is in the extended position. Fig. 1



No. of Pages : 52 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :24/07/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : LASER WELDING METHOD FOR FLAT WIRES :B23K26/20 (71)Name of Applicant : (51) International classification 1)TOYOTA JIDOSHA KABUSHIKI KAISHA :2016-(31) Priority Document No Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken 152242 :02/08/2016 471-8571, Japan Japan (32) Priority Date (72)Name of Inventor : (33) Name of priority country :Japan (86) International Application No :NA 1)Hideo NAKAMURA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA

#### (57) Abstract :

Provided is a laser welding method for flat wires in which side surfaces (23a, 23b) at ends of first and second flat wires (20a, 20b) coated with insulating films, the side surfaces (23a, 23b) being stripped of the insulating films, are butted together, and a laser beam (LB) is applied to end surfaces (24a, 24b) of the first and second flat wires to weld together the side surfaces (23a, 23b). This method includes: applying the laser beam (LB) in a loop shape inside the end surface (24a) of the first flat wire to form a molten pool (30); and gradually increasing the diameter of a loop-shaped application trajectory of the laser beam (LB) inside the end surface (24a) of the first flat wire to allow the molten pool (30) to reach the side surfaces (23a, 23b).

No. of Pages : 33 No. of Claims : 11

#### (19) INDIA

(22) Date of filing of Application :26/07/2017

(43) Publication Date : 09/02/2018

(51) International classification	:C01F	(71)Name of Applicant :
(31) Priority Document No	:2016-	1)Miz Company Limited
(32) Priority Date	:02/08/2016	Kanagawa 247-0056, Japan. Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:NA	1)KUROKAWA, Ryousuke
Filing Date	:NA	2)SATOH, Fumitake
(87) International Publication No	: NA	3)SATOH, Bunpei
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : METHOD OF GENERATING HYDROGEN WATER

#### (57) Abstract :

A method of generating hydrogen water of pH 6 to 8 using at least one electrolyzer (2) is provided. The electrolyzer (2) includes a housing (20), a membrane (25) that partitions the inside of the housing (20), an anode chamber (21) and a cathode chamber (22) that are formed inside the housing by being partitioned by the membrane, an anode (23) that is provided to be in contact with a surface of the membrane at the anode chamber side or provided to be separated from the surface via a small space, and a cathode (24) that is provided to be in contact with a surface of the membrane at the cathode chamber side via a small space. The method includes continuously supplying the cathode chamber with water that contains a mineral component, supplying the anode chamber with water that does not contain a mineral component of which the amount exceeds an impurity content, applying a DC voltage between the anode and the cathode, and delivering hydrogen water generated in the cathode chamber. This method can generate neutral or alkaline hydrogen water.

No. of Pages : 41 No. of Claims : 15

(22) Date of filing of Application :28/07/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : ROTATING ELECTRICAL MACHINE			
(51) International classification	:H02K3/04	(71)Name of Applicant :	
(31) Priority Document No	:2016-	1)TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL	
(31) Thomy Document No	151769	SYSTEMS CORPORATION	
(32) Priority Date	:02/08/2016	Address of Applicant :3-1-1, Kyobashi, Chuo-ku, Tokyo 104-	
(33) Name of priority country	:Japan	0031, Japan Japan	
(86) International Application No	:NA	(72)Name of Inventor :	
Filing Date	:NA	1)TAKEZAWA, Yoshinori	
(87) International Publication 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 rotating electrical machine (100) comprises: a rotor (10) having a rotor shaft (11) and a rotor core (12); a stator (20) having a hollow cylindrical stator core (21) and stator windings (25); a frame (40); and two bearings (30) to support the rotor shaft (11) rotatably. The stator core (21) has stator teeth (22) formed by stator slots (23) which are provided along the inner circumferential surface of the stator core (21) with circumferential intervals therebetween and extend axially, each of the stator windings (25) including stator winding conductors (25a) penetrating the stator slot (23) axially. Each of the stator winding conductors (25a) is retained by a winding conductor retaining wedge (24) which is provided so as to close an opening (28) of each of the stator slots (23) and to extend axially, and the surface of the winding conductor retaining wedge (24) on the opening side protrudes to the opening side at least at both axial end parts.

No. of Pages : 19 No. of Claims : 3

#### (19) INDIA

(22) Date of filing of Application :01/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : BOTTLE HOLDING SYSTEM AND CONFIGURATIONS THEREOF

(51) International classification	:F01K15/00	(71)Name of Applicant :
(31) Priority Document No	:15/226,771	1)Mace Corporation
(32) Priority Date	:02/08/2016	Address of Applicant :3860 Schiff Drive, Las Vegas, NV
(33) Name of priority country	:U.S.A.	89103, United States of America U.S.A.
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Edgardo Clores
(87) International Publication 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 bottle holding system and provides multiple configurations to that system. More particularly, this disclosure desclibes a structure for securing and slanting a baby bottle to a correct feeding position. In one illustrative embodiment, the structure may be formed from a first member and second member parallel to each other with at least one beam formed between them from a set of rods. The members may support the beam for an attachment hooked thereto. The attachment may include a bottle engaging section for holding a baby bottle. The attachment may pivot providing the correct feeding position.

No. of Pages : 32 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :01/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : MEMBRANE COMPOSITIONS FOR ESTIMATING SOIL MICROBIAL LOAD

(51) International classification:C12Q1/04(31) Priority Document No:15/226,21(32) Priority Date:02/08/201(33) Name of priority country:U.S.A.(86) International Application No:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)PROLIFIC EARTH SCIENCES CORPORATION</li> <li>Address of Applicant :45 Dwight Place, Unit 5, Englewood, New Jersey 07631, USA U.S.A.</li> <li>(72)Name of Inventor :</li> </ul>
Filing Date :NA	1)FITZPATRICK, Judith
(87) International Publication No : NA	
(61) Patent of Addition to Application Number :NA	
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

Devices, methods, and kits for easy, accurate, and fast estimation of soil microbial load are provided. The devices include membranes that are rapidly wettable with aqueous fluids and retain soil microorganisms of up to 200 micrometers in size, without retaining soil pigments. The method requires reconstituting a soil sample in an extraction fluid so that the microorganisms in the soil sample are released from particles of the soil sample and into the extraction fluid. The method does not require a filtration step. The extraction fluid containing the microorganisms suspended therein is then pipetted onto the membrane device, or the membrane is dipped into the extraction fluid. The color appearing on the membrane is then compared to color intensity gray scale strips to determine the soil microbial load.

PERSONAL PROPERTY

No. of Pages : 45 No. of Claims : 24

(22) Date of filing of Application :01/08/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : KNEE BOLSTER FOR VEHICLE			
(51) International classification	:F01K15/00	(71)Name of Applicant :	
(31) Priority Document No	:2016- 152904	1)SUZUKI MOTOR CORPORATION Address of Applicant :300, Takatsuka-cho, Minami-ku,	
(32) Priority Date	:03/08/2016	Hamamatsu-shi, Shizuoka-ken, Japan Japan	
(33) Name of priority country	:Japan	(72)Name of Inventor :	
(86) International Application No	:NA	1)Toshihiro TADAOKA	
Filing Date	:NA	2)Ryuhei FUKUSHIMA	
(87) International Publication No	: NA		
(61) Patent of Addition to Application Number	:NA		
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

#### (57) Abstract :

Falling sideways is prevented in a deformation process occurring when a knee load in a vehicle collision is received, and an original load absorbing performance of a knee bolster is improved. [Solution] A knee bolster is constituted by a vehicle front portion 11 jointed to a steering support member 3 and a vehicle rear portion 12 joined to an instrument panel 2, and the vehicle front portion 11 and the vehicle rear portion 12 include an upper member 4 and a lower member 5, respectively, and the vehicle front portion 11 has a closed section formed by joining the upper member 4 and the lower member 5. [Selected Drawings] Figure 1

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

#### (19) INDIA

(22) Date of filing of Application :02/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : LOCATION BASED DYNAMIC GEO-FENCING SYSTEM FOR SECURITY

(51) International classification	:G08B21/18,	(71)Name of Applicant :
(31) Priority Document No	:15/227,694	1)HONEYWELL INTERNATIONAL INC.
(32) Priority Date	:03/08/2016	Address of Applicant :115 Tabor Rd, Morris Plains, NJ 07950,
(33) Name of priority country	:U.S.A.	USA U.S.A.
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MEGANATHAN, Deepak Sundar
(87) International Publication 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 dynamic integrated security system having a user interface with a display connected to the processor. A plurality of security devices may be situated in a geographical area. A security perimeter may be placed around a high profile entity initiated by a threat level having a predetermined magnitude. The security perimeter may be a geo-fence that encompasses a geo area around the high profile entity. The geo area may encompass one or more security devices. The one or more security devices in the geo area may be connected to the processor. The geo area may move and stay with the high profile entity upon a change of geographic position of the high profile entity. The one or more security devices within the geo area may be monitored and controlled for reducing or preventing effects of the threat level against the high profile entity.

No. of Pages : 23 No. of Claims : 15

(22) Date of filing of Application :02/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : APPROACH AND SYSTEM FOR AVOIDING AMBIGUOUS ACTION VIA MOBILE APPS THROUGH CONTEXT BASED NOTIFICATION

#### (57) Abstract :

A mechanism, with action awareness, incorporating a building automation system (BAS) having an interface screen. A mobile device may be logged by a first user into an app for connecting with the interface screen. A display of the mobile device may show the interface screen that reveals one or more components in a space covered by the BAS. The first user may select a first component of the one or more components in the display and perform a first action on the component. A second user may log into an app with a second or the same mobile device which has a display that reveals the one or more components in the space. The second user may select the first component in the display and see a notification describing one or more actions already performed on the first component before deciding whether to perform an action on it.

No. of Pages : 23 No. of Claims : 15

#### (19) INDIA

(22) Date of filing of Application :02/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : FRONT PASSENGER SEAT AIRBAG DEVICE :F01K15/00 (71)Name of Applicant : (51) International classification 1)TOYOTA JIDOSHA KABUSHIKI KAISHA :2016-(31) Priority Document No Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken 154061 :04/08/2016 471-8571, Japan Japan (32) Priority Date (72)Name of Inventor : (33) Name of priority country :Japan 1)Mitsuyoshi OHNO (86) International Application No :NA Filing Date :NA 2)Ikuo YAMADA (87) International Publication No : NA 3)Mikine HAYASHI (61) Patent of Addition to Application Number :NA 4)Shun ITO Filing Date :NA 5)Takahiro KOJIMA (62) Divisional to Application Number :NA Filing Date :NA

#### (57) Abstract :

A front passenger seat airbag device includes a module case; a front passenger seat airbag configured such that, in a folded state, a height of a first airbag section positioned at a vehicle outer side is lower than a height of a second airbag section positioned at a vehicle inner side, and widths of the first airbag section and the second airbag section are substantially the same; an inflator disposed at a bottom side of the module case; and a raising member disposed at a bottom portion of the module case, and that raises a height of a first support face supporting the first airbag section to be higher than a height of a second support face supporting the second airbag section, such that a height of an upper face of the first airbag section is substantially aligned with a height of an upper face of the second airbag section.

No. of Pages : 56 No. of Claims : 10

#### (19) INDIA

(22) Date of filing of Application :04/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PUMPABLE AND THERMALLY EXPANDABLE FILLER COMPOSITIONS

(51) International classification	:F01K15/00	(71)Name of Applicant :
(31) Priority Document No	:16183251.4	1)SIKA TECHNOLOGY AG
(32) Priority Date	:08/08/2016	Address of Applicant : Zugerstrasse 50, 6340 Baar (CH),
(33) Name of priority country	:EPO	Switzerland Switzerland
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Lin, Geng
(87) International Publication No	: NA	2)Proko, Blanka
(61) Patent of Addition to Application Number	:NA	3)Davis, Steve
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application is directed to pumpable thermally foaming filler compositions based on combinations of a liquid epoxy resin and a polyvinyl chloride resin and/or an acrylic resin powder. These pumpable filler materials provide the advantage that they can be applied as needed using conventional injection equipment and can be expanded to provide foam with good physical strength, high expansion and excellent adhesion on oiled metal substrates. The present invention further describes methods for filling closed spaces with the pumpable thermally foaming filler composition as well as vehicle parts which are obtainable with the indicated methods.

No. of Pages : 20 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :04/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : URINAL CARTRIDGE AND URINAL HAVING THE SAME

(51) International classification	:A47K11/12	(71)Name of Applicant :
(31) Priority Document No	:105211966	1)LAI, KELVIN YI-TSE
(32) Priority Date	:08/08/2016	Address of Applicant :2F1, NO. 104, WENYA ST., NORTH
(33) Name of priority country	:Taiwan	DIST., HSINCHU CITY POSTAL CODE: 30049, TAIWAN
(86) International Application No	:NA	Taiwan
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)LAI, KELVIN YI-TSE
(61) Patent of Addition to Application Number	:NA	2)HSUAN, MIN-CHIH
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cartridge (3) is adapted to be inserted removably into a drain hole (21) of a urinal (1), and includes a cartridge body (31), a guide plate member (32), a detecting module (33) and a filter unit (34). The cartridge body (31) has an internal space (313) having an opening (312). The guide plate member (32) is disposed in the opening (312), and is perforated to guide liquid which exits the urinal (1) via the drain hole (21) to flow therethrough into the internal space (313). The detecting module (33) includes a drug-detecting chip (331) for detecting presence of a specified drug, and a controlling chip (332) for controlling operation of the drug-detecting chip (331) according to measured displacement of the guide plate member (32). The filter unit (34) utilizes a channel (341) to direct the liquid from the guide plate member (32) to the drug-detecting chip (331). Fig. 2

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

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : METHOD FOR PRODUCING AT LEAST ONE RESERVOIR ASSEMBLY, INJECTABLE-PRODUCT RESERVOIR ASSEMBLY FOR AN INJECTION PEN AND INJECTION PEN EQUIPPED WITH SUCH AN ASSEMBLY

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	:A61M5/24 :1554991 :02/06/2015 :France :PCT/EP2016/062394 :01/06/2016 :WO 2016/193313 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)BIOCORP PRODUCTION <ul> <li>Address of Applicant :ZI De Lavaur La Bechade 63500 Issoire</li> </ul> </li> <li>France <ul> <li>(72)Name of Inventor :</li> <li>1)ANEAS Antoine</li> </ul> </li> </ul>
Filing Date	:NA :NA	

(57) Abstract :

Said method is used to produce at least one injectable product reservoir assembly (8) for an injection pen. The method comprises at least the sequence of steps consisting of: producing a hollow housing (30) equipped with a first mechanical member (31) for attaching a needle and a second mechanical member (38) for attaching the housing onto an injection pen; inserting (F6) an elongate container (20) having an open bottom (222) into the housing; and filling the container with a predetermined quantity of injectable product through an opening (O20) of the open bottom (222) of the container (20).

No. of Pages : 12 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(21) Application No.201717042037 A

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHOD FOR PROVIDING A BENEFIT TO SKIN

(51) International classification	:A61K8/34,A61K8/368,A61K8/49	(71)Name of Applicant :
(31) Priority Document No	:62/182888	1)JOHNSON & JOHNSON CONSUMER INC.
(32) Priority Date	:22/06/2015	Address of Applicant :199 Grandview Road Skillman NJ
(33) Name of priority country	:U.S.A.	08558 U.S.A.
(86) International Application	DCT/US2016/028646	(72)Name of Inventor :
No	.PC1/052010/058040	1)BINNER Curt
Filing Date	.22/00/2010	2)PATURI Jyotsna
(87) International Publication	WO 2016/200882	3)TRAN Bao T.
No	. WO 2010/209882	4)WU Jeffrey M.
(61) Patent of Addition to	·NI A	
Application Number		
Filing Date	INA	
(62) Divisional to Application	-NI 4	
Number		
Filing Date	INA	

(57) Abstract :

A method of providing a cosmetic and/or therapeutic benefit to a mammalian body surface (such as human skin) includes the steps of adhering a multilayered, thin, flexible article to an application site on a mammalian body; maintaining the article in place, and removing the article from the application site by application of water to the article. The article has a thickness of up to about 2 mm and comprises a top non-tacky layer and a bottom self-adhesive layer, and the bottom self-adhesive layer includes a benefiting agent. The article is maintained for a duration of at least a half hour whereby the benefitting agent is available for transfer to the application site.

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No. of Pages : 43 No. of Claims : 13

#### (19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : ENCLOSURE STRUCTURE PROVIDED WITH DIRECTIONALLY LAID POWER TRANSMISSION CONDUCTORS AND LAYING METHOD

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(2016)</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(34) International Application No</li> <li>(37) International Publication Number</li> <li>(38) International Publication Number</li> <li>(39) International Publication Number</li> <li>(31) International Publication Number</li> <li>(32) International Publication Number</li> <li>(32) International Publication Number</li> <li>(33) International Publication Number</li> <li>(34) International Publication Number</li> <li>(35) International Publication Number</li> <li>(36) International Publication Number</li> <li>(37) International Publication Number</li> <li>(38) Inter</li></ul>	2G3/00 610238242.3 04/2016 na(71)Name of Applicar 1)XINJIANG GOLD CO. LTD. Address of Applica Technological Develop (72)Name of Inventor 1)MA Shengjun 2)MA Wanshun	nt : DWIND SCIENCE & TECHNOLOGY nt :No. 107 Shanghai Road Economic & oment Zone Urumqi Xinjiang 830026 China :
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#### (57) Abstract :

An enclosure structure provided with directionally laid power transmission conductors and a laying method. The method comprises the following steps: according to an air flow parameter of the outside world of an enclosure structure (100) obtaining surface heat transfer coefficient change situations of the outer surface in contact with a flow coming from the windward direction of a shady side of an enclosure structure (100); determining a target laying position according to the shady side position corresponding to a highest surface heat transfer coefficient; and laying the power transmission conductors (300) at the target laying position. In the method the conductors are laid on the shady side of the enclosure structure (100) so as to make use of a cold source on the low temperature side; and particularly important the specific positions where the conductors are laid on the shady side and the power transmission conductors (300) are disposed at the turbulent flow detachment position on the shady side and the position that is on the outer surface of the enclosure structure (100) and that is corresponding to the highest surface heat transfer coefficient and accordingly the cold source on the shady side of the enclosure structure is more efficiently used the heat exchange rate with the help of the shady side of the enclosure structure and the natural environment is enhanced and the load of the power transmission conductors is increased.



No. of Pages : 35 No. of Claims : 28

(21) Application No.201717042050 A

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : HIGH VALUE ORGANIC CONTAINING FERTILIZERS AND METHODS OF MANUFACTURE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Pachlication No</li> </ul>	:B01J19/00,C05F1/00,C05F3/00 :62/171541 :05/06/2015 :U.S.A. :PCT/US2016/036043 :06/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)ANUVIA PLANT NUTRIENTS HOLDINGS LLC Address of Applicant :6751 Jones Ave. Zellwood Florida</li> <li>32798 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)BURNHAM Jeffrey C.</li> </ul>
<ul> <li>(87) International Publication No</li> <li>(61) Patent of Addition to</li> <li>Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:WO 2016/197119 :NA :NA :NA	2)DAHMS Gary L. 3)JARRETT Barry R. 4)MURPHY Larry S.

(57) Abstract :

The invention is directed to manufacturing fertilizers having commercial levels of nitrogen reacted with organic substances. The process comprises treatment of organics with acid that acidifies and heats a mix causing the hydrolysis of polymers. The acidified organic mix is injected sequentially with a nitrogen base under conditions that result in a partially neutralized melt. The sterilized and liquefied organic matter is disbursed over recycled material for production of granules in a granulator before final drying. The process is green scalable and safe for the location of community organics processing facilities in locations without generating a nuisance to local communities. Fertilizers also provide a green dual nitrogen release profile when applied to crops releasing a bolus of nitrogen over one to two weeks following application followed by a continued slow or enhanced efficiency release of nitrogen over a growing season.

No. of Pages : 64 No. of Claims : 40

(21) Application No.201717042052 A

(22) Date of filing of Application :23/11/2017

(19) INDIA

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ENCODING A PIXEL OF AN INPUT VIDEO SEQUENCE

(51) International classification	:H04N19/86,G09G5/02,H04N1/64	(71)Name of Applicant :
(31) Priority Document No	:62/171594	1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(32) Priority Date	:05/06/2015	Address of Applicant : Torshamnsgatan 23 164 83 Stockholm
(33) Name of priority country	:U.S.A.	Sweden
(86) International Application No Filing Date	:PCT/SE2016/050498 :30/05/2016	(72)Name of Inventor : 1)ANDERSSON Kenneth 2)WENNERSTEN Per
(87) International Publication No	:WO 2016/195576	3)STR-M Jacob
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A method of encoding a pixel comprises encoding second and third color component values of the pixel in a first color space. A first color component value in a second color space is obtained for the pixel. A first color component value in the first color space is determined based on minimizing an error computed based on a difference between the first color component value in the second color space and a test color component value in the second color space derived based on the encoded second and third color component values. The first color component value in the first color space is then encoded. The target value for coding of the first color component is thereby adapted given encoding of the second and third color components. As a result the visual quality of the pixel is improved.



No. of Pages : 61 No. of Claims : 27

#### (19) INDIA

(22) Date of filing of Application :23/11/2017

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : DISTRIBUTED FIBER SENSOR

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li></ul>	:G01K11/00,G01K11/22,G01K11/24 :62/155796 :01/05/2015	<ul> <li>(71)Name of Applicant :</li> <li>1)THE UNIVERSITY OF MASSACHUSETTS Address of Applicant :One Beacon Street 31st Floor Boston Massachusetts 02108 U S A</li> </ul>
(33) Name of priority country	:U.S.A.	(72)Name of Inventor : 1)WANG Xingwei
(86) International Application No Filing Date	:PCT/US2016/030074 :29/04/2016	2)WU Nan
(87) International Publication No	:WO 2016/178981	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

In an embodiment a sensor comprises a waveguide comprising a photoacoustic generation element disposed on the waveguide the photoacoustic generation element comprising a photoabsorptive material; and a sensing element comprising an optical acoustic wave detector. In another embodiment a sensing system comprises the sensor and a laser. In yet another embodiment a method of sensing comprises providing the sensing system; heating the photoabsorptive material with a laser to generate an acoustic signal; sensing an intensity of laser light reflected by the optical acoustic wave detector to detect the acoustic signal; and determining a time of flight of the acoustic signal between the generation and the detection to determine a change in a parameter change in a medium between the photoabsorptive material and the optical acoustic wave detector.



No. of Pages : 18 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : WIND POWER GENERATOR VIBRATION INHIBITION METHOD AND DEVICE

(51) International classification	:H02P9/14,H02P21/00,H02P101/15	(71)Name of Applicant : 1)BEIJING GOLDWIND SCIENCE & CREATION
(31) Priority Document No	:201510280381.8	WINDPOWER EQUIPMENT CO. LTD.
(32) Priority Date	:27/05/2015	Address of Applicant :No. 19 Kangding Road Beijing
(33) Name of priority country	:China	Economic & Technological Development Zone Daxing Beijing
(86) International Application	:PCT/CN2015/095569	100176 China
No Filing Date	:25/11/2015	(72)Name of Inventor : 1)LIU Yong
(87) International Publication No	:WO 2016/188069	2)ZHANG Xiaohe 3)ZHAO Xiang
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A wind power generator vibration and noise inhibition method and device. The method comprises: calculating to obtain a setpoint value of a flux-weakening control parameter of a generator according to the setpoint value of an electromagnetic active power of the generator and a : frequency of the generator (SlOI); and controlling the generator according to the setpoint value of the flux-weakening control parameter of the generator (SlO2). The method and device reduce the magnetic load of the generator by the flu - weakening control, thereby inhibiting vibration and noise of the generator.

inserves, es

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PROBIOTIC OR PREBIOTIC, METHOD FOR PRODUCING SAME, MICROBIAL PREPARATION, HEALTH FOOD, AND MEDICINE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> <li>(87) International Publication No</li> </ul> </li> </ul>	:A61K35/742,A23L31/15,A61P1/00 :2015121531 :30/05/2015 :Japan :PCT/JP2016/056806 :04/03/2016 :WO 2016/194427	<ul> <li>(71)Name of Applicant :</li> <li>1)JAPAN ECO SCIENCE CO. LTD. Address of Applicant :21111 1 Shiomigaoka cho Chuo ku</li> <li>Chiba shi Chiba 2600034 Japan</li> <li>2)KEIYO PLANT ENGINEERING CO. LTD</li> <li>3)MIROKU CO. LTD.</li> <li>4)NATIONAL UNIVERSITY CORPORATION CHIBA</li> <li>UNIVERSITY</li> <li>(72)Name of Inventor :</li> <li>1)MIYAMOTO Hirokuni</li> <li>2)KODAMA Hiroaki</li> </ul>
<ul> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to Application</li> <li>Number</li> <li>Filing Date</li> </ul>	:NA :NA <sup>1</sup> :NA :NA	3)OHNO Hiroshi 4)FUKUDA Shinji 5)HATTORI Masahira 6)OSHIMA Kenshiro 7)SUDA Wataru 8)ITO Toshiyuki 9)MIYAMOTO Hisashi

(57) Abstract :

{Problem] The diatheses of animals vary depending on genetic backgrounds of the animals, and the microbial structure of an enterobacterial flora inherent in a host and the behavior of the concentration of a biological molecule sometimes vary depending on the diathesis of the host. In this case, it is needed to administer a proper probiotic. [Solution] A microbial preparation for controlling the proportion of the population of bacteria belonging to the division Bacteroidetes, Firmicutes or Proteobacteria or the proportion of the population of bacteria belonging to the genus Clostridium, Lactobacillus, Bifidobacterium or Bacteroidetes in the enterobacterial flora in an animal body, and for controlling the concentration of a functional molecule contained in a living body, said microbial preparation containing a microorganism P01931 (International Accession No. BP-1931), MK-01A (International Accession No. BP-02066) or MK-03A (International Accession No. BP-02067) or a component of the microorganism.



No. of Pages : 28 No. of Claims : 7

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : DURABLE ICEPHOBIC SURFACES		
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> <li>(87) International Publication</li> <li>No</li> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to Application</li> <li>Number</li> <li>Filing Date</li> </ul>	n:C09K3/18,C08L75/04,C08G18/10 :62/153141 :27/04/2015 :U.S.A. :PCT/US2016/029596 :27/04/2016 :WO 2016/176350 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)THE REGENTS OF THE UNIVERSITY OF MICHIGAN Address of Applicant :Office of Technology Transfer 1600 Huron Parkway 2nd Floor Ann Arbor Michigan 48109 2590 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)TUTEJA Anish</li> <li>2)GOLOVIN Kevin</li> </ul>

(57) Abstract :

Durable icephobic materials form anti-ice coatings on a variety of substrates, including for aircraft, powerlines, vehicles, marine structures, communications towers, outdoor equipment, and the like. The icephobic material may comprise an elastomeric polymer with a low crosslink density (e.g.,  $\leq 1,300 \text{ mol/m3}$ ) and low initial ice adhesion strength (e.g.,  $\tau ice \leq 100 \text{ kPa}$  prior to exposure to icing conditions). Further, the icephobic material maintains rice after 10 icing/deicing cycles that is  $\geq 50\%$  of the initial rice Introducing optional miscible liquids enhances interfacial slippage of chains in the elastomeric polymer. The low rice levels minimize ice buildup and eliminate necessary work to remove any accumulated ice via passive removal during normal operation. Other icephobic materials include linear polymers with plasticizers distributed therein or PDMS-silane coatings, both of which are free of any layers of surface liquids. Methods of making such icephobic materials are also provided.



No. of Pages : 62 No. of Claims : 52

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : BACK LIGHT UNIT AND DISPLAY APPARATUS INCLUDING THE SAME

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	:G02F1/1335,G02F1/017 :1020150083312 :12/06/2015 :Republic of Korea :PCT/KR2016/002343 :09/03/2016 :WO 2016/200019 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SAMSUNG ELECTRONICS CO. LTD. Address of Applicant :129 Samsung ro Yeongtong gu Suwon si Gyeonggi do 16677 Republic of Korea</li> <li>(72)Name of Inventor :</li> <li>1)LEE Kye Hoon</li> </ul>
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

Disclosed herein are a back light unit including a quantum dot sheet capable of recycling light converted by quantum dots, and a display apparatus including the back light unit. The back light unit according to an example includes: a light source; and a quantum dot sheet configured to convert light generated in the light source into white light, wherein the quantum dot sheet includes a fluorescent member including quantum dots; a first barrier film disposed on the rear surface of the fluorescent member; and a second barrier film disposed on the front surface of the fluorescent member, and having a predetermined reflectivity to reflect the white light converted by the fluorescent member backward toward the fluorescent member.

No. of Pages : 18 No. of Claims : 15

#### (19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : IMPROVEMENT TO MOBILE ASPHALT PLANTS WITH SIDE PROTECTORS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to</li> </ul>	:E01C19/45,E01C19/10,B65G17/06 :BR2020150133850 :09/06/2015 :Brazil :PCT/BR2016/050126 :03/06/2016 :WO 2016/197218 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)CIBER EQUIPAMENTOS RODOVI • RIOS LTDA Address of Applicant :Rua Senhor Do Bom Fim N° 177 91140</li> <li>380 Porto Alegre Brazil</li> <li>(72)Name of Inventor :</li> <li>1)SCHWARZ FRANCESCHINI Andr</li> <li>2)PICCOLI Guilherme Luiz</li> </ul>
Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

The present utility model pertains to the technical field of equipment for producing asphalt concrete (AC) or hot mix asphalt concrete (HMAC) and relates more particularly to an improvement to mobile asphalt plants provided with side protectors. Proposed are protective screens for the areas which should be avoided by operators and others where high temperatures and noise levels prevail. The protectors are installed in the area where virgin aggregate arriving from the metering system is transferred to the drying/heating system where the intake temperature of the metered material is high and elements such as the conveyor belt can cause injury to operators. The other area to be isolated is the place where the burner of the plant carries out the process of combustion. In addition to protecting these areas in order to avoid any contact of the operators with the heated system there is also a reduction in noise in these areas. Thus by using thermally and acoustically insulating screens it is clearly possible to increase safety at work.





(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

(51) International classification	:G01V9/00	(71)Name of Applicant :
(31) Priority Document No	:62/181541	1)PURE TECHNOLOGIES LTD.
(32) Priority Date	:18/06/2015	Address of Applicant :3rd Floor 705 11th Avenue S.W.
(33) Name of priority country	:U.S.A.	Calgary Alberta T2R 0E3 Canada
(86) International Application No	:PCT/CA2016/050717	(72)Name of Inventor :
Filing Date	:17/06/2016	1)PAULSON Peter O.
(87) International Publication No	:WO 2016/201584	2)MCINTYRE John A.
(61) Patent of Addition to Application	·NA	
Number	·NA	
Filing Date	.11A	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : DETECTION OF PIPELINE EXPOSURE IN WATER CROSSINGS

(57) Abstract :

The present invention relates to a method and system of an arrangement of sensors that can be used to detect changes in burial conditions of a pipeline buried under a body of water. The method comprising : obtaining a first temperature of a fluid at a first location; obtaining a second temperature of the fluid at a second location upstream and proximal to the crossing of the body of water; obtaining a third temperature of the fluid at a third location downstream from the crossing of the body of water; generating an estimate of the temperature of the fluid at the third location by establishing the rate of change of temperature of the fluid using the obtained first and second temperature and the distance between the first and second sensors; and identifying pipe exposure when there is a deviation between the estimated temperature and the obtained third temperature.

No. of Pages : 13 No. of Claims : 19

(21) Application No.201717042087 A

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : IMPROVEMENT TO A CHASSIS FOR MOBILE ASPHALT PLANTS

(51) International classification	:E01C19/10,E01C19/08,B28C7/04	(71)Name of Applicant :
(31) Priority Document No	:BR2020150132161	1)CIBER EQUIPAMENTOS RODOVI • RIOS LTDA
(32) Priority Date	:05/06/2015	Address of Applicant :Rua Senhor Do Bom Fim Nº 177 91140
(33) Name of priority country	:Brazil	380 Porto Alegre Brazil
(86) International Application No Filing Date	:PCT/BR2016/050124 :03/06/2016	<ul><li>(72)Name of Inventor :</li><li>1)SCHWARZ FRANCESCHINI Andr</li><li>2)PICCOLI Guilherme Luiz</li></ul>
(87) International Publication No	:WO 2016/191843	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present utility model pertains to the technical field of equipment for producing asphalt concrete (AC) or hot mix asphalt concrete (HMAC) and relates more particularly to an improvement to a chassis for mobile asphalt plants. The solution consists in modularizing the design of the chassis in order to reduce design time and storage costs by virtue of a standardization of the chassis. Thus the solution fits asphalt plants of different sizes and reduces the physical space required to store items belonging to the structure of the chassis. The high level of standardization has been achieved by segmenting the main structure of the chassis into three regions which appropriately accommodate all of the systems for producing the asphalt mixture.

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

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:F03D3/04 :P20150471A :04/05/2015 :Croatia :PCT/HR2016/000015 :02/05/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)MARGITIC Zeljko Address of Applicant :Bijenik mali 24 a 10000 Zagreb Croatia</li> <li>(72)Name of Inventor :</li> <li>1)MARGITIC Zeljko</li> </ul>
<ul> <li>(61) Patent of Addition to Application</li> <li>Number</li> <li>Filing Date</li> <li>(62) Divisional to Application Number</li> <li>Filing Date</li> </ul>	:NA :NA :NA :NA	

#### (54) Title of the invention : COMBINED IMPELLER-PRESSURE TYPE WIND POWER PLANT •

(57) Abstract :

power plant uses wind speed from 5km/h to 250km/h. A wind speed of 250km/h produces 15 625 times more power than today s wind power units when using maximum allowed wind speed. If (R) is the biggest distance of rotating points from shaft rotation axis then wind aggregate s inertia moment of resistance to rotation rises with (R) and the total moment of the forces rises with (R). Top and bottom amplifiers increase the density () air streamlines. Decreased (R) increases angular velocity () but decreases the total moment so that increased air mass and energy efficiency coefficient multiplied by 3.rd potention of maximum wind speed can produce enormous energy. Greater output height than input height of air streamlines creates underpressure. Increased angular velocity and underpressure throw burnt out molecules with exhausted kinetic energy out from the power unit. Control microprocessors bring out maximum possible power by turning heating water and electric net on and off but they also control centrifugal acceleration and opening and closing of roof door. A small generator with permanent magnets provides excitation for bigger generators.



No. of Pages : 34 No. of Claims : 14

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No     <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication N</li> <li>(61) Patent of Addition to</li> <li>Application Number     <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application</li> <li>Number     <ul> <li>Filing Date</li> </ul> </li> </ul>	:B63B25/16,F17C6/00,F17C9/02 :1020150078142 :02/06/2015 :Republic of Korea :PCT/KR2016/003541 :05/04/2016 o:WO 2016/195229 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)DAEWOO SHIPBUILDING &amp; MARINE</li> <li>ENGINEERING CO. LTD.</li> <li>Address of Applicant :125 Namdaemun ro Jung gu Seoul</li> <li>04521 Republic of Korea</li> <li>(72)Name of Inventor :</li> <li>1)SHIN Hyun Jun</li> <li>2)CHOI Dong Kyu</li> <li>3)MOON Young Sik</li> <li>4)AN Su Kyung</li> <li>5)JANG Hyun Min</li> <li>6)SON Jae Wook</li> <li>7)LEE Joon Chae</li> </ul>
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#### (54) Title of the invention : SHIP

#### (57) Abstract :

Disclosed is a ship comprising a storage tank for storing a liquefied gas. A ship comprises: a boil-off gas heat exchanger which is provided downstream of a storage tank and is for heat exchanging a compressed boil-off gas (hereafter referred to as a first fluid) by means of a boil-off gas discharged from the storage tank as a refrigerant, thereby cooling same; a compressor which is provided downstream of the boil-off gas heat exchanger and is for compressing a part of the boil-off gas discharged from the storage tank; an extra compressor which is provided downstream of the boil-off gas heat exchanger and parallel with the compressor and is for compressing the other part of the boil-off gas discharged from the storage tank; a refrigerant heat exchanger which is for additionally cooling the first fluid which has been cooled by means of the boil-off gas heat exchanger; a refrigerant decompressing device which is for expanding a second fluid, which has been sent to the refrigerant heat exchanger (a fluid sent to the refrigerant heat exchanger hereafter being referred to as a second fluid) and cooled by means of the refrigerant heat exchanger, and then sending same back to the refrigerant heat exchanger; and a first decompressing device which is for expanding the first fluid that has been cooled by means of the boil-off gas heat exchanger and refrigerant heat exchanger, wherein the refrigerant heat exchanger heat exchanges and cools both the first fluid and second fluid by means of the boil-off gas, which has passed the refrigerant decompressing device, as a refrigerant, wherein the first fluid is either the boil-off gas which has been compressed by means of the compressor or a confluent flow of the boiloff gas compressed by means of the compressor and the boil-off gas compressed by means of the extra compressor, and the second fluid is either the boil-off gas which has been compressed by means of the extra compressor or a confluent flow of the boil-off gas compressed by means of the compressor and the boil-off gas compressed by means of the extra compressor.



No. of Pages : 109 No. of Claims : 20

## (19) INDIA

(22) Date of filing of Application :23/11/2017

### (43) Publication Date : 09/02/2018

#### (51) International classification :B63B25/16,B63H21/38,F17C9/02 (71)Name of Applicant : **1)DAEWOO SHIPBUILDING & MARINE** (31) Priority Document No :1020150078142 (32) Priority Date :02/06/2015 ENGINEERING CO. LTD. (33) Name of priority country :Republic of Korea Address of Applicant :125 Namdaemun ro Jung gu Seoul 04521 Republic of Korea (86) International Application :PCT/KR2016/005139 (72)Name of Inventor: No :16/05/2016 Filing Date **1)SHIN Hyun Jun** (87) International Publication 2)CHOI Dong Kyu :WO 2016/195279 No 3)MOON Young Sik (61) Patent of Addition to :NA Application Number :NA Filing Date (62) Divisional to Application :NA Number :NA Filing Date

#### (54) Title of the invention : SHIP

(57) Abstract :

Disclosed is a ship comprising a liquefied gas storage tank. A ship comprises: a first compressor which can compress one or more parts of a boil off gas discharged from a storage tank; a second compressor which is for compressing the other part of the boil off gas discharged from the storage tank; a propulsion compressor which is for compressing one part of the boil off gas that has been compressed by means of the first compressor and/or the second compressor; a first heat exchanger which is for heat exchanging the boil off gas compressed by means of the propulsion compressor and the boil off gas discharged from the storage tank; a refrigerant decompressing device which is for expanding the other part of the boil off gas that has been compressed by means of the first compressor; a second heat exchanger which is for cooling by means of a fluid expanded by means of the refrigerant decompressing device as a refrigerant the boil off gas that has been compressed by means of the first heat exchanger; an additional compressor which is for compressing device which is for expanding the fluid that has been compressed by means of the propulsion compressor and then cooled by means of the first heat exchanger and second heat exchanger; and a first decompressing device which is for expanding the fluid that has been compressed by means of the propulsion compressor and then cooled by means of the first heat exchanger and second heat exchanger where in the additional compressor and then cooled by means of the first heat exchanger and second heat exchanger where in the additional compressor and then cooled by means of the fluid by means of the fluid by means of the refrigerant decompressing device.

No. of Pages : 124 No. of Claims : 22

(19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : CONTROLLED AXIAL DISPLACEMENT POSTERIOR CHAMBER PHAKIC INTRAOCULAR LENS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:A61F2/16,G02C7/02 :62/166226 :26/05/2015 :U.S.A. :PCT/US2016/034463 :26/05/2016 :WO 2016/191614 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)STAAR SURGICAL COMPANY Address of Applicant :1911 Walker Avenue Los Angeles CA</li> <li>91016 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)PAUL Thomas R.</li> <li>2)OSSIPOV Alexei</li> </ul>
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(57) Abstract :

An improved posterior chamber phakic intraocular lens (PCPIL) is provided. The improved PCPIL incorporates one or more design elements that minimize or eliminate axial displacement of the PCPIL under horizontal compression.

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No. of Pages : 18 No. of Claims : 33

(21) Application No.201717042125 A

## (19) INDIA

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : COMPOSITIONS AND METHODS FOR TREATING PTERYGIUM

(51) International	· \ 61E0/00 \ 61K38/45 \ 61K30/305	(71)Name of Applicant :
classification	.A011'9/00,A01K30/45,A01K39/395	1)CLOUDBREAK THERAPEUTICS LLC
(31) Priority Document No	:62/172063	Address of Applicant :145 Cloudbreak Irvine California 92618
(32) Priority Date	:06/06/2015	U.S.A.
(33) Name of priority country	v:U.S.A.	(72)Name of Inventor :
(86) International	DCT/LIS201//02572/	1)NI Jinsong
Application No	:PC1/052010/035720	
Filing Date	:03/06/2016	
(87) International Publication		
No	:WO 2016/200688	
(61) Patent of Addition to	NT 4	
Application Number	:NA	
Filing Date	:NA	
(62) Divisional to		
(02) Divisional to	:NA	
Application Number	:NA	
Filing Date		

(57) Abstract :

Compositions and methods for inducing pterygium regression from visual axis/central cornea stabilizing pterygium treating hyperemia and symptoms in pterygium patients and treating pterygium recurrence following pterygiectomy are disclosed. The methods include administration of a multikinase inhibitor an antimetabolite or a combination thereof to patients in need thereof.

No. of Pages : 38 No. of Claims : 35

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication N</li> <li>(61) Patent of Addition to</li> <li>Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:B63B25/16,F17C6/00,F17C9/02 :1020150078142 :02/06/2015 :Republic of Korea :PCT/KR2016/003542 :05/04/2016 fo:WO 2016/195230 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)DAEWOO SHIPBUILDING &amp; MARINE</li> <li>ENGINEERING CO. LTD. Address of Applicant :125 Namdaemun ro Jung gu Seoul</li> <li>04521 Republic of Korea</li> <li>(72)Name of Inventor :</li> <li>1)SHIN Hyun Jun</li> <li>2)CHOI Dong Kyu</li> <li>3)MOON Young Sik</li> <li>4)AN Su Kyung</li> <li>5)JANG Hyun Min</li> <li>6)SON Jae Wook</li> <li>7)LEE Joon Chae</li> </ul>
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#### (54) Title of the invention : SHIP

#### (57) Abstract :

Disclosed is a ship comprising a storage tank for storing a liquefied gas. A ship comprises: a boil-off gas heat exchanger which is provided downstream of a storage tank and is for heat exchanging a compressed boil-off gas (hereafter referred to as a first fluid) by means of a boil-off gas discharged from the storage tank as a refrigerant, thereby cooling same; a compressor which is provided downstream of the boil-off gas heat exchanger and is for compressing a part of the boil-off gas discharged from the storage tank; a first extra compressor which is provided downstream of the boil-off gas heat exchanger and parallel with the compressor and is for compressing the other part of the boil-off gas discharged from the storage tank; a second extra compressor which is provided downstream of the boil-off gas heat exchanger and parallel with the compressor and first extra compressor and is for compressing the remaining part of the boil-off gas discharged from the storage tank; a refrigerant heat exchanger which is for additionally cooling the first fluid which has been cooled by means of the boil-off gas heat exchanger; a refrigerant decompressing device which is for expanding a second fluid, which has been sent to the refrigerant heat exchanger (a fluid sent to the refrigerant heat exchanger hereafter being referred to as a second fluid) and cooled by means of the refrigerant heat exchanger, and then sending same back to the refrigerant heat exchanger; and a first decompressing device which is for expanding the first fluid that has been cooled by means of the boil-off gas heat exchanger and refrigerant heat exchanger, wherein the refrigerant heat exchanger heat exchanges and cools both the first fluid and second fluid by means of the boil-off gas, which has passed the refrigerant decompressing device, as a refrigerant. The first fluid is any one of the boil-off gas which has been compressed by means of the compressor, the boil-off gas which has been compressed by means of the first extra compressor, a confluent flow of the boil-off gas compressed by means of the compressor and the boil-off gas compressed by means of the first extra compressor, and a confluent flow of the boil-off gas compressed by means of the compressor, the boil-off gas compressed by means of the first extra compressor and the boil-off gas compressed by means of the second extra compressor. The second fluid is any one of the boil-off gas which has been compressed by means of the first extra compressor, the boil-off gas which has been compressed by means of the second extra compressor, a confluent flow of the boil-off gas compressed by means of the first extra compressor and the boil-off gas compressed by means of the second extra compressor, and a confluent flow of the boil-off gas compressed by means of the compressor, the boil-off gas compressed by means of the first extra compressor and the boil-off gas compressed by means of the second extra compressor.



No. of Pages : 213 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :05/07/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : AN ALERTING SYSTEM FOR A VISUALLY CHALLENGED PEDESTRIAN

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:A61F9/08 :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)KAURA, LAKSHYA PAWAN SHYAM Address of Applicant :House No. 686, Sector No 17, Faridabad 121002, Haryana, India Haryana India</li> <li>(72)Name of Inventor :</li> <li>1)KAURA, LAKSHYA PAWAN SHYAM</li> </ul>
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA	

#### (57) Abstract :

The present disclosure relates to the field of alerting systems for a visually challenged pedestrian. The alerting system of the present disclosure is configured to alert the visually challenged pedestrian about approaching objects, generate alerts with minimum errors, provide maximum response time to the visually challenged pedestrian, and generates different type of alerts. The system comprises a first wearable device and a second wearable device. The first wearable device includes a plurality of cameras that are configured to sense and provide live feed of an approaching object, a computing device which is configured to receive the live feed from the cameras, and is further configured to generate an alert signal in an event of detection of any object, and a buzzer which is configured to receive the generated alert signal from the computing device and correspondingly generate an alert.

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

### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : IMMUNOGLOBULIN SINGLE VARIABLE DOMAIN ANTIBODY AGAINST RSV PREFUSION F PROTEIN

<ul> <li>(51) International classification</li> <li>:A61K39/00,C07K16/10,A61K39/12</li> <li>(31) Priority Document No</li> <li>:62/181522</li> <li>(32) Priority Date</li> <li>:18/06/2015</li> <li>(33) Name of priority country</li> <li>:U.S.A.</li> <li>(86) International</li> <li>Application No</li> <li>Filing Date</li> <li>:20/06/2016</li> <li>:WO 2016/203052</li> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>:NA</li> <li>Filing Date</li> <li>:NA</li> <li>Application Number</li> <li>Filing Date</li> <li>:NA</li> <li>Application Number</li> <li>:NA</li> </ul>	<ul> <li>(71)Name of Applicant :</li> <li>1)VIB VZW <ul> <li>Address of Applicant :Rijvisschestraat 120 9052 Gent</li> </ul> </li> <li>Belgium <ul> <li>2)UNIVERSITEIT GENT</li> <li>3)THE UNITED STATES OF AMERICA</li> <li>4)TRUSTEES OF DARTMOUTH COLLEGE</li> </ul> </li> <li>(72)Name of Inventor : <ul> <li>1)SAELENS Xavier</li> <li>2)SCHEPENS Bert</li> <li>3)ROSSEY Iebe</li> <li>4)GRAHAM Barney</li> <li>5)MCLELLAN Jason</li> <li>6)GILMAN Morgan</li> </ul> </li> </ul>
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(57) Abstract :

The present invention relates to immunoglobulin single variable domains (ISVDs) that are directed against respiratory syncytial virus (RSV). More specifically it relates to ISVDs that bind to the prefusion form of the fusion (F) protein of RSV. The invention relates further to the use of these ISVDs for prevention and/or treatment of RSV infections and to pharmaceutical compositions comprising these ISVDs.

No. of Pages : 24 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ANTIMALARIAL AGENT METHODS AND USES THEREOF

<ul> <li>(51) International</li> <li>classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority</li> <li>country</li> <li>(86) International</li> <li>Application No <ul> <li>Filing Date</li> <li>(87) International</li> </ul> </li> <li>Publication No</li> <li>(61) Patent of Addition to</li> <li>Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:C07C43/23,A61K31/09,A61K39/015 :108584 :25/06/2015 :Portugal :PCT/IB2016/053823 :27/06/2016 :WO 2016/207869 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)UNIVERSIDADE DO PORTO Address of Applicant :U.Porto Innovation Praa Gomes</li> <li>Teixeira 4099 002 Porto Portugal</li> <li>2)INSTITUTO DE HIGIENE E MEDICINA TROPICAL</li> <li>3)INSTITUTO POLITCNICO DO PORTO</li> <li>(72)Name of Inventor :</li> <li>1)DA COSTA LEO Pedro Nuno</li> <li>2)MARTINS Maria Do Rosrio</li> <li>3)COSTA Margarida</li> <li>4)VASCONCELOS Vtor</li> <li>5)DOMINGUES Valentina</li> <li>6)NOGUEIRA Ftima</li> </ul>
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present disclosure relates to compound of the formula I wherein R1 is a halogen; R2 R4 are independently selected from a group consisting of C1 C6 alkyl H COCH3 COH CO alkyl CO aryl; R3 is a C3 C30 alkyl; or a pharmaceutically acceptable salt ester solvate or prodrug thereof for use in medicine in particular as antimalarial agent. The present solution relates to halogenated alkyl aromatic secondary metabolites in particular hierridin C from the cyanobacterium Cyanobium sp. LEGE 06113 which was received on 29 May 2015 and accepted for deposit for patent purposes on 15th June 2015 at the Scottish Association for Marine Science Culture Collection of Algae and Protozoa (CCAP) International Depositary Authority under the Budapest Treaty under the CCAP number 1436/1 and its application as an antimalarial agent.

No. of Pages : 17 No. of Claims : 14
(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : DEVICES AND METHODS FOR DRUG ADMINISTRATION AND MIXING AND TRAINING OF PROPER TECHNIQUES THEREFOR

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:G09B23/28 :62/182426 :19/06/2015 :U.S.A. :PCT/EP2016/064227 :20/06/2016 :WO 2016/203058 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)JANSSEN PHARMACEUTICA NV Address of Applicant :Turnhoutseweg 30 B 2340 Beerse Belgium</li> <li>(72)Name of Inventor :</li> <li>1)SCRIMGEOUR Ian</li> <li>2)MARTIN Scott</li> <li>3)MCLUSKY James</li> <li>4)GLENCROSS James</li> <li>5)HUTTON Blair</li> <li>6)FOLEY Nick</li> <li>7)KRULEVITCH Peter</li> <li>8)BURN VIDAL, Jos Antonio</li> </ul>
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(57) Abstract :

A device for training users in a proper mixing of pharmaceutical components or for aiding in the mixing or for performing the mixing and administration of pharmaceutical components is disclosed. The device comprises a housing for receiving a pharmaceutical delivery device containing the pharmaceutical components. There is also a microcontroller disposed in the housing and a motion/orientation detection device disposed within or on the housing and in communication with the microcontroller. A method for use of the device is also disclosed along with a substance for use as one of the pharmaceutical components.

No. of Pages : 50 No. of Claims : 58

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:A61M5/178,A61M5/32	(71)Name of Applicant :
(31) Priority Document No	:1555748	1)BIOCORP PRODUCTION
(32) Priority Date	:23/06/2015	Address of Applicant :Zi de Lavaur La Bechade 63500 Issoire
(33) Name of priority country	:France	France
(86) International Application No	:PCT/EP2016/064374	(72)Name of Inventor :
Filing Date	:22/06/2016	1)ANEAS Antoine
(87) International Publication No	:WO 2016/207196	
(61) Patent of Addition to Application	·NI A	
Number	·NA	
Filing Date	.11A	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : SYRINGE COMPRISING A BONDED NEEDLE

(57) Abstract :

The invention relates to a syringe having a bonded needle (10) comprising a syringe body a needle protector (12) comprising a flexible cap (14) an outer sleeve (18) which can move along a longitudinal axis (X1) between an extended position in which it covers the needle and a retracted position in which it does not cover the needle and a collar (16b) which is mounted with a radial clearance (J1) around an end part (82) of the syringe body and which comprises at least one pin (160) engaged in a guide opening (180) of the sleeve. A portion (143) of the flexible cap (14) fills the radial clearance (J1) between the end part (82) of the syringe body and the collar (16b) when the cap (14) is mounted on the syringe such that the collar cannot rotate around the end part of the syringe body as long as the cap (14) is mounted on the syringe.

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

#### (19) INDIA

(22) Date of filing of Application :05/06/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : VEHICLE BATTERY HOLDING STRUCTURE		
(51) International classification	:B60L11/18	(71)Name of Applicant :
(31) Priority Document No	:2016- 154979	1)Suzuki Motor Corporation Address of Applicant :300, Takatsuka-cho, Minami-ku,
(32) Priority Date	:05/08/2016	Hamamatsu, Shizuoka 432-8611, Japan Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:NĀ	1)KISHIMOTO, Jun
Filing Date	:NA	2)IKEDA, Makoto
(87) International Publication 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 a battery holding structure that enables improving the holding force with respect to the orientation of a battery. A vehicle battery holding structure 100 according to one embodiment of the present invention includes a battery 104 for a vehicle and a battery tray 106 that supports the battery 104 from below. The vehicle battery holding structure 100 further includes a rear face support member 13 6 that supports a rear face 122 of the battery 104 at a location upwardly separated from the battery tray 106, and coupling members 126a and 126b that couple the rear face support member 13 6 to a predetermined vehicle body member (hood lock member 128) that constitutes a portion of the vehicle body.

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

#### (19) INDIA

(22) Date of filing of Application :12/06/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : VEHICLE TEST SYSTEM, RECORDING MEDIUM RECORDED WITH VEHICLE TEST SYSTEM PROGRAM, VEHICLE TEST METHOD, AND ROAD LOAD SETTING APPARATUS

(51) International classification	:B60R16/04	(71)Name of Applicant :
(31) Priority Document No	:2016-	1)HORIBA, Ltd. Address of Applicant : 2 Miyanobigashi cho, Kischoin
(32) Priority Date	:02/08/2016	Minami-ku, Kyoto-shi, Kyoto 601-8510, Japan Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:NA	1)OGAWA, Yasuhiro
Filing Date	:NA	2)ADACHI, Masayuki
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

In order to prevent the occurrence of a user<sup>TM</sup>s erroneous operation as well as preventing an inappropriate road load from being set in a dynamometer, a vehicle test system 100 that tests the performance of a vehicle V or a part of the vehicle V is adapted to include: a dynamometer 1 adapted to provide a load to the vehicle V or the part of the vehicle V; an actual running data acquisition part 61 adapted to acquire actual running data from an actual running vehicle V<sup>TM</sup> running on a road; a road load calculation part 62, 41 adapted to, on the basis of the actual running data, calculate a road load used to test the performance of the vehicle V or the part of the vehicle V; a road load data setting part 43 adapted to set the road load in the dynamometer 1; and an output part 44 adapted to, before the setting in the dynamometer 1, viewably output the road load to a user. Fig.: 2

9, 86 101 11 101 101

No. of Pages : 42 No. of Claims : 12

(22) Date of filing of Application :22/12/2017

(21) Application No.201717046416 A

(43) Publication Date : 09/02/2018

(54) Title of the invention : PRIVACY ENHANCED PERSONAL SEARCH INDEX

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:G06F21/62,G06F17/30 :14/753225 :29/06/2015 :U.S.A. :PCT/US2016/039188 :24/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)MICROSOFT TECHNOLOGY LICENSING LLC Address of Applicant :Attn: Patent Group Docketing (Bldg.</li> <li>8/1000) One Microsoft Way Redmond Washington 98052 6399 U.S.A.</li> <li>(72)Name of Inventor :</li> </ul>
<ul> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number</li> <li>Filing Date</li> <li>(62) Divisional to Application Number</li> <li>Filing Date</li> </ul>	:WO 2017/003842 :NA :NA :NA :NA	1)LEE Ho John

(57) Abstract :

Examples of the present disclosure describe systems and methods for enhancing the privacy of a personal search index. In some aspects a personal clear text document may be used to generate an encrypted document digest and an encrypted document on a first device. A second device may decrypt the document digest build a personal search index based on the decrypted document digest and store the encrypted document in a data store. The first device may subsequently receive a clear text search query that is used to query the personal search index on the second device for encrypted documents.

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

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ANNOTATING NOTES FROM PASSIVE RECORDING WITH CATEGORIES

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li></ul>	:G11B27/034,G11B27/11,G10L15/26 :62/186313 :29/06/2015	<ul> <li>(71)Name of Applicant :</li> <li>1)MICROSOFT TECHNOLOGY LICENSING LLC Address of Applicant :Attn: Patent Group Docketing (Bldg. 8/1000) One Microsoft Way Redmond Washington 98052 6399</li> </ul>
(33) Name of priority country	:U.S.A.	U.S.A. (72)Name of Inventor :
(86) International Application No Filing Date	:PCT/US2016/039695 :28/06/2016	1)LIU Jie 2)DALAL Mayuresh P. 3)GABOR Michal
(87) International Publication No	:WO 2017/003973	4)PRAJAPATI Gaurang
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

## (57) Abstract :

Systems and methods and computer readable media bearing instructions for carrying out methods of capturing notes from passive recording of an ongoing content stream and annotating the note with a category are presented. Passive recording comprises temporarily recording the most recent content of the ongoing content stream. An ongoing content stream is passively recorded in a passive recording buffer. The passive recording buffer is configured to store a limited amount of recorded content corresponding to the most recently recorded content of the ongoing content stream. Upon indication by the user a note is generated from the recorded content in the passive recording annotated with a category and stored in a note file for the user.

No. of Pages : 22 No. of Claims : 13

(21) Application No.201717046218 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : IMINODIACETATE CHELATING RESIN AND MANUFACTURING METHOD THEREFOR

(57) Abstract :

The present invention relates to an iminodiacetate chelating resin for which the moisture content in the resin is 50 75% and the Na form/H form volume ratio is 1.4 1.8. The present invention also relates to an iminodiacetate chelating resin manufacturing method that uses an alcohol as a reaction solvent for amination of a cross linked chloromethylated styrene copolymer with iminodiacetonitrile or uses sodium iodide and/or potassium iodide as the amination reaction solvent.

No. of Pages : 35 No. of Claims : 13

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : DISEASE THERAPY WITH CHIMERIC ANTIGEN RECEPTOR (CAR) CONSTRUCTS AND T CELLS (CAR T) OR NK CELLS (CAR NK) EXPRESSING CAR CONSTRUCTS

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li></ul>	:A61K35/12,A61K35/17,A61K39/385 :62/174894	<ul><li>(71)Name of Applicant :</li><li>1)IMMUNOMEDICS INC.</li><li>Address of Applicant :300 American Road Morris Plains New</li></ul>
(32) Priority Date	:12/06/2015	Jersey 07950 U.S.A.
(33) Name of priority country	:U.S.A.	<ul><li>(72)Name of Inventor :</li><li>1)CHANG Chien Hsing</li></ul>
(86) International Application No Filing Date	:PCT/US2016/036987 :10/06/2016	2)LIU Donglin 3)GOLDENBERG David M.
(87) International Publication No	:WO 2016/201300	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention concerns CAR CAR T and CAR NK constructs preferably comprising a scFv antibody fragment against a disease associated antigen or a hapten. More preferably the antigen is a TAA such as Trop 2. The constructs may be administered to a subject with a disease such as cancer autoimmune disease or immune dysfunction disease to induce an immune response against disease associated cells. Where the constructs bind to a hapten the subject is first treated with a hapten conjugated antibody that binds to a disease associated antigen. Therapy may be supplemented by other treatments such as debulking procedures (e.g. surgery chemotherapy radiation therapy) or coadministration of other agents. More preferably administration of the construct is preceded by predosing with an unconjugated antibody that binds to the same disease associated antigen. Most preferably an antibody against CD74 or HLA DR is administered to reduce systemic immunotoxicity induced by the constructs.

No. of Pages : 81 No. of Claims : 79

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHODS FOR PREPARING OLTIPRAZ

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:C07D409/04,C07D241/12 :1891/DEL/2015 :25/06/2015 :India :PCT/IN2016/050197 :24/06/2016 :WO 2016/207914 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ST IP HOLDING AG Address of Applicant :Baarerstrasse 2 Postfach 33 Zug CH</li> <li>6301 Switzerland 6301 Zug Switzerland</li> <li>(72)Name of Inventor :</li> <li>1)FRAMROZE Bomi P.</li> </ul>
Filing Date (62) Divisional to Application Number Filing Date	:NA :NA :NA	

(57) Abstract :

The invention provides improved methods of synthesizing oltipraz which result in higher overall yield and better purity of the desired product.

No. of Pages : 61 No. of Claims : 20

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number</li> </ul>	:E02F9/28 :15301005 :26/06/2015 :Sweden :PCT/SE2016/050577 :15/06/2016 :WO 2016/209146 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)COMBI WEAR PARTS AB Address of Applicant :Box 205 681 24 Kristinehamn Sweden</li> <li>(72)Name of Inventor :</li> <li>1)QUARFORDT Per</li> <li>2)GABELA Adnan</li> <li>3)LINDBLAD Jonas</li> <li>4)WECHSELBERGER Niclas</li> <li>5)FASTH Michael</li> </ul>
<ul> <li>(61) Patent of Addition to Application</li> <li>Number</li> <li>Filing Date</li> <li>(62) Divisional to Application Number</li> </ul>	:NA :NA :NA	4)WECHSELBERGER Niclas 5)FASTH Michael
Filing Date	:NA	

(54) Title of the invention : WEARING PART SYSTEM AND METHOD FOR LOCKING A WEARING PART

(57) Abstract :

The invention concerns a wearing part system comprising a wearing part holder a wearing part where the wearing part and the wearing part holder jointly define at least one locking opening a wedge for locking of the wearing part to the wearing part holder where the wearing part is arranged with a rotatable rotary disk where the rotary disk can be arranged in a first open position and a second closed position and the wedge can move in the locking opening through the rotary disk when the rotary disk is oriented in a first open position and the wedge is locked and retains the wearing part against the wearing part holder when the rotary disk is oriented in a second closed position. The invention moreover concerns a lock and a method for releasable locking of a wearing part to a wearing part holder.



No. of Pages : 22 No. of Claims : 11

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : CONTINUOUSLY BIOPRINTED MULTILAYER TISSUE STRUCTURE

(51) International classification (31) Priority Document No	a:C12N5/071,C12M3/00,C12M3/04 :62/180174	(71)Name of Applicant : 1)ASPECT BIOSYSTEMS LTD.
<ul><li>(32) Priority Date</li><li>(33) Name of priority country</li><li>(86) International Application</li></ul>	:16/06/2015 :U.S.A.	Address of Applicant : 1/81 West /5th Avenue Vancouver British Columbia V6P 6P2 Canada (72) Name of Inventor :
No Filing Date	:PCT/CA2016/050707 :16/06/2016	1)BEYER Simon 2)MOHAMED Tamer
(87) International Publication No	:WO 2016/201577	3)PAN Sheng 4)WADSWORTH Sam
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Provided herein are synthetic living tissue structures comprising multiple layers of fibers deposited in solidified form from a 3D bioprinter together with kits and methods of use related thereto. The fibers comprise a plurality of mammalian cells dispensed within a solidified biocompatible matrix. The structural integrity of the fiber is maintained upon and after deposition without any additional crosslinking. The fiber is continuously bioprinted through at least two layers of the structure. In one aspect synthetic muscle tissue structures exhibit a readily assayable contractile functionality.

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No. of Pages : 15 No. of Claims : 18

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : PYRAZOLE DERIVATIVE OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF

<ul> <li>(51) International classification</li> <li>(31) Priority Documen</li> <li>No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International</li> <li>Application No <ul> <li>Filing Date</li> <li>(87) International</li> <li>Publication No</li> <li>(61) Patent of Addition</li> <li>to Application Number</li> <li>Filing Date</li> <li>(62) Divisional to</li> <li>Application Number</li> <li>Filing Date</li> </ul> </li> </ul>	:C07D231/12,A61K31/415,A61K31/4155 t :2015126046 :23/06/2015 :Japan :PCT/JP2016/068445 :22/06/2016 :WO 2016/208602 t :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)KISSEI PHARMACEUTICAL CO. LTD. Address of Applicant :19 48 Yoshino Matsumoto shi Nagano 3998710 Japan</li> <li>(72)Name of Inventor :</li> <li>1)HIRASAWA Hideaki</li> <li>2)TANADA Fumiya</li> <li>3)MUTAI Yousuke</li> <li>4)FUSHIMI Nobuhiko</li> <li>5)KOBAYASHI Junichi</li> <li>6)KIJIMA Yoshiro</li> </ul>
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#### (57) Abstract :

[Problem] The purpose of the present invention is to provide a novel pyrazole derivative or a pharmaceutically acceptable salt thereof and a pharmaceutical composition containing same and a pharmaceutical use thereof. [Solution] The present invention provides a composition having a TRPM8 inhibitory activity and represented by formula (I) (in the formula ring A is C6 10 aryl or the like X is CR4a or the like R1 and R2 are a hydrogen atom or the like R3 is a hydrogen atom or the like R4 is a hydrogen atom or the like ring B is C6 10 aryl or the like R5 is a hydrogen atom or the like R6a is a hydrogen atom or the like R7a is a hydrogen atom or the like R7b is a hydrogen atom or the like R6b is a hydrogen atom or the like R8 is a hydrogen atom or the like and n is 0 1 or 2) or a pharmaceutically acceptable salt thereof. Furthermore the composition of the present invention represented by formula (I) or the pharmaceutically acceptable salt thereof can be used as a therapeutic agent or prophylactic agent for diseases or conditions caused by hyperexcitability or disorders of afferent nerves.

(1)

No. of Pages : 367 No. of Claims : 13

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

(		
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> </ul>	:F41H5/02 :NA :NA ·NA	<ul> <li>(71)Name of Applicant :</li> <li>1)BAE SYSTEMS PLC Address of Applicant :6 Carlton Gardens London SW1Y 5AD</li> <li>U K</li> </ul>
<ul> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:PCT/GB2015/000197 :24/06/2015 :WO 2016/207580	(72)Name of Inventor : 1)PARK Nicholas 2)JENKINGS Simon Anthony
(61) Patent of Addition to Application Number Filing Date	:NA :NA	3)TOWNSEND David
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (54) Title of the invention : ARMOUR

(57) Abstract :

Armour comprising a container (2) containing a liquid (6) said container having a threat facing wall (11) and at least one shock reflecting layer (5) of material contained within the container (2) the shock reflecting layer (5) having a shock impedance differing from the liquid (6) and being positioned at an angle to the threat facing wall (11) whereby to reflect shock waves (8) created in the liquid by passage of a projectile (1) through the liquid back towards the projectile (1) and across the trajectory of the projectile whereby to induce tumbling of the projectile within the liquid.



No. of Pages : 9 No. of Claims : 17

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : 3 3 DIFLUOROPIPERIDINE CARBAMATE HETEROCYCLIC COMPOUNDS AS NR2B NMDA **RECEPTOR ANTAGONISTS**

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(22) Divisional to</li> </ul>	:C07D401/12,C07D401/14,C07D409/14 :62/169107 :01/06/2015 :U.S.A. :PCT/US2016/035098 :31/05/2016 :WO 2016/196513 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)RUGEN HOLDINGS (CAYMAN) LIMITED Address of Applicant :P.O. Box 309 Ugland House KY1 1104 Grand Cayman Cayman Islands Cayman Island</li> <li>(72)Name of Inventor :</li> <li>1)SHAPIRO Gideon</li> </ul>
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Disclosed are chemical entities of Formula (I) wherein R1 and Z are defined herein as NR2B subtype selective receptor antagonists. Also disclosed are pharmaceutical compositions comprising a chemical entity of Formula (I) and methods of treating various diseases and disorders associated with NR2B antagonism e.g. diseases and disorders of the CNS such as depression by administering a chemical entity of Formula (I).

# 

No. of Pages : 221 No. of Claims : 25

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : NEW HYDROXYACID DERIVATIVES A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li><li>(32) Priority Data</li></ul>	:C07D495/04,A61K31/519,A61P35/00 :1555753	<ul> <li>(71)Name of Applicant :</li> <li>1)LES LABORATOIRES SERVIER Address of Applicant :35 rue de Verdun 92284 Suresnes</li> </ul>
(32) Flority Date (33) Name of priority country	:France	2)VERNALIS (RAndD) LIMITED (72)Name of Inventor :
(86) International Application No Filing Date	:PCT/EP2016/064417 :22/06/2016	1)SZLVIK Zoltn 2)PACZAL Attila 3)BLINT Balzs
(87) International Publication No	:WO 2016/207216	4)KOTSCHY Andrs 5)CHANRION Maa
(61) Patent of Addition to Application Number Filing Date	:NA :NA	6)GENESTE Olivier 7)DAVIDSON James Edward Paul 8)MURRAY James Brooke
(62) Divisional to Application Number Filing Date	:NA :NA	9)SIPOS Szabolcs 10)PROSZENYK gnes

#### (57) Abstract :

Compounds of formula (I): wherein R1 R2 R3 R4 R5 R6 R7 R8 R14 A and n are as defined in the description. Medicaments.

No. of Pages : 78 No. of Claims : 38

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : HARMONIC DISTRIBUTION RADIAL PISTON HYDRAULIC MACHINE

(57) Abstract :

The hydraulic machine comprises a cam (4) and a cylinder block with pistons (14) collaborating with the lobes of the cam which lobes each have two ramps (50A 50B) extending between top dead centre and bottom dead centre (PH PB) arcs. The cylinders are connected alternately to a supply and to an exhaust according to sequences separated by switchover phases comprising a phase of isolation with respect to the main supply and exhaust ducts. The angular position of the start or end of at least one first phase of isolation with respect to the corresponding dead centre arc differs from the angular position of the start or end of at least a second phase of isolation with respect to its corresponding dead centre arc these dead centre arcs both being top dead centre or bottom dead centre arcs.

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No. of Pages : 41 No. of Claims : 19

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ULTRASOUND PROBE WITH HOUSING AND INTERCHANGEABLE TIP :A61B8/00,A61B8/08 (71)Name of Applicant : (51) International classification (31) Priority Document No **1)ECHOSENS** :15168841.3 (32) Priority Date :22/05/2015 Address of Applicant :30 Place dItalie 75013 Paris France (33) Name of priority country (72)Name of Inventor: :EPO (86) International Application No **1)SANDRIN Laurent** :PCT/EP2016/061559 Filing Date :23/05/2016 (87) International Publication No :WO 2016/188947 (61) Patent of Addition to Application :NA Number :NA Filing Date (62) Divisional to Application Number :NA Filing Date :NA

(57) Abstract :

An aspect of the invention relates generally to an interchangeable tip (1) for ultrasound probe housing (20) comprising: At least one ultrasound transducer (2) constructed and configured to emit and receive ultrasound signals At least one electrical contact (4) of tip each electrical contact (4) of tip being constructed and configured to cooperate with an electrical connector (5) A tip connector (11) constructed and configured to secure the interchangeable tip (1) with an ultrasound probe housing (20).

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No. of Pages : 14 No. of Claims : 26

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : METHODS USED IN SERVING RADIO NODE AND CONTROL NODE AND ASSOCIATED DEVICES

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:H04W88/10 :PCT/CN2015/082516 :26/06/2015 :China :PCT/CN2016/087045 :24/06/2016 :WO 2016/206628 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :SE 164 83 Stockholm Sweden</li> <li>(72)Name of Inventor :</li> <li>1)LIU Jinhua</li> </ul>
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#### (57) Abstract :

The present disclosure discloses a method used in a serving radio node and an associated serving radio node. The method includes receiving from a control node controlling the serving radio node a sounding and sensing related configuration for the serving radio node wherein each sounding resource element indicated by the sounding and sensing related configuration is orthogonal to each sounding resource element indicated by a sounding and sensing related configuration for each neighboring radio node; and sensing through a Receiver (RX) Radio Frequency (RF) chain of the serving radio node configured for each radio link of the one or more radio links all sounding signals in a direction of the radio link based on the received sounding and sensing related configuration. The present disclosure also discloses another method used in a serving radio node and an associated serving radio node. The present disclosure further discloses a method used in a control node controlling a serving radio node and an associated control node.

No. of Pages : 41 No. of Claims : 35

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : GLUCOSYLTRANSFERASE AMINO ACID SEQUENCE MOTIFS FOR PRODUCING LINEAR POLY ALPHA 1 3 GLUCAN

<ul> <li>(51) International classification :</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> <li>(87) International Publication</li> <li>No</li> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to Application</li> </ul>	:C12P19/04,C12P19/18,C12N9/10 :62/180779 :17/06/2015 :U.S.A. :PCT/US2016/037673 :15/06/2016 :WO 2016/205401 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)E I DU PONT DE NEMOURS AND COMPANY Address of Applicant :Chestnut Run Plaza 974 Centre Road</li> <li>P.O. Box 2915 Wilmington Delaware 19805 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)PAYNE Mark S.</li> <li>2)BRUN Yefim</li> <li>3)BOTT Richard R.</li> </ul>
Application Number Filing Date (62) Divisional to Application Number Filing Date	:NA :NA :NA	

(57) Abstract :

Reactions comprising water sucrose and one or more glucosyltransferase enzymes are disclosed herein. Glucosyltransferase enzymes used in these reactions comprise certain motifs allowing production of insoluble poly alpha 1 3 glucan having at least 95% alpha 1 3 glycosidic linkages.



No. of Pages : 60 No. of Claims : 15

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : NEW ALKYNYL SUBSTITUTED 3 PHENYLPYRROLIDINE 2 4 DIONES AND USE THEREOF AS HERBICIDES

(57) Abstract :

The invention relates to new effective alkynyl substituted 3 phenylpyrrolidine 2 4 diones of general formula (I) or agrochemically acceptable salts thereof wherein X = C1 C4 alkyl C1 C4 haloalkyl or C3 C6 cycloalkyl; Y = C1 C4 alkyl or C3 C6 cycloalkyl; n = 1 2 or 3; m = 1 or 2; R1 = C1 C6 alkyl or C3 C6 cycloalkyl; R2 = hydrogen or methyl; R3 = C1 C3 alkoxy C1 C3 alkyl or a saturated five or six membered heterocycle having an oxygen or sulfur atom; G = hydrogen a group L that can be cleaved off or a cation E. The invention further relates to the use of the compounds according to the invention to control weeds and undesired grasses in cultures of useful plants.



No. of Pages : 44 No. of Claims : 24

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : METHODS AND COMPOSITIONS FOR RNA GUIDED TREATMENT OF HIV INFECTION

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li></ul>	:A61P31/18,A61K48/00,C12N5/10 :62/169384 :01/06/2015	<ul> <li>(71)Name of Applicant :</li> <li>1)TEMPLE UNIVERSITY OF THE COMMONWEALTH</li> <li>SYSTEM OF HIGHER EDUCATION</li> <li>Address of Applicant :Broad Street and Montgomery Avenue</li> </ul>
<ul><li>(33) Name of priority country</li><li>(86) International Application</li><li>No</li><li>Filing Data</li></ul>	:U.S.A. :PCT/US2016/035141 :01/06/2016	Philadelphia PA 19122 U.S.A. (72)Name of Inventor : 1)KHALILI Kamel 2)HU Wonbui
(87) International Publication No	:WO 2016/196539	3)ZHANG Yonggang
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Compositions for specifically cleaving target sequences in retroviruses include nucleic acids encoding a Clustered Regularly Interspace Short Palindromic Repeat (CRISPR) associated endonuclease and a guide RNA sequence complementary to one or more target nucleic acid sequences in a retrovirus genome.



No. of Pages : 65 No. of Claims : 49

(21) Application No.201717046418 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(51) International classification (31) Priority Document No	:G06F17/30 :62/185767	<ul> <li>(71)Name of Applicant :</li> <li>1)SECURE ISLANDS TECHNOLOGIES LTD.</li> <li>Addrass of Applicant The Habrey University of Isrussian</li> </ul>
<ul> <li>(32) Fhonty Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> <li>Eiling Date</li> </ul>	:U.S.A. :PCT/IB2016/053879	High Tech Village Givat Ram Campus P.O. Box. 93158 9139101 Jerusalem Israel
<ul><li>(87) International Publication No</li><li>(61) Patent of Addition to Application</li><li>Number</li></ul>	:WO 2017/002028 :NA	(72)Name of inventor : 1)ELDAR Yuval 2)OZ Roee
Filing Date (62) Divisional to Application Number Filing Date	:NA :NA :NA	

## (54) Title of the invention : ADAPTIVE CLASSIFICATION OF DATA ITEMS

(57) Abstract :

Described are embodiments for adaptive classification of data items which may include receiving a classification training set the classification training set comprising a set of items associated with classification events made by a group of selected users each item in the set of items having been designated as belonging to a particular classification by a selected user while manipulating the each item; determining from the classification training set a set of rules which can be used to classify unknown data items such that the classification of the unknown data items is consistent with the manual or automatic classification of the classification training set; adaptively updating the set of rules according to classifications made to additional data items by additional users; and automatically classifying based on the set of rules one or more data items that are manipulated by a second set of one or more users.

No. of Pages : 21 No. of Claims : 23

(21) Application No.201717046419 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : RECONFIGURING WIRELESS NETWORKS BY PREDICTING FUTURE USER LOCATIONS AND LOADS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	:H04W28/08,H04W28/02 :14/753716 :29/06/2015 :U.S.A. :PCT/US2016/039136 :24/06/2016 :WO 2017/003829 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)MICROSOFT TECHNOLOGY LICENSING LLC Address of Applicant :Attn: Patent Group Docketing (Bldg. 8/1000) One Microsoft Way Redmond Washington 98052 6399 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)HORVITZ Eric Joel</li> <li>2)CHANDRA Ranveer</li> </ul>
Filing Date	:NA	

(57) Abstract :

Wireless networks may be dynamically reconfigured based at least in part on predicted future user device locations. The predicted future user device locations may be used to for example to offload user devices to small cells or WiFi networks. The predicted future user device locations may additionally or alternatively be used for targeting directional signals and/or for beam forming for multi user multi input / multi output systems.

No. of Pages : 28 No. of Claims : 15

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PROCESS FOR THE PREPARATION OF POLYURETHANE SOLUTIONS BASED ON SILICON POLYCARBONATE DIOLS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication</li> <li>No</li> <li>(61) Patent of Addition to</li> <li>Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application</li> </ul>	:A61L27/18,A61L27/50,A61L29/06 :62/172653 :08/06/2015 :U.S.A. :PCT/US2016/036466 :08/06/2016 :WO 2016/200956 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)AORTECH INTERNATIONAL PLC Address of Applicant :Level Two Springfield House 23</li> <li>Oatlands Drive Weybridge Surrey KT13 9LZ U.K.</li> <li>2)AORTECH EUROPE LTD</li> <li>(72)Name of Inventor :</li> <li>1)VENKATARAMANI Sriram</li> <li>2)MAGUIRE Francis P.</li> </ul>
Number Filing Date	:NA :NA	

## (57) Abstract :

The present invention provides silicon based polycarbonates processes for their preparation and their use in the synthesis of copolymers in particular segmented copolymers such as polyurethanes for biomedical applications.

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

(21) Application No.201717046425 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : THERMAL RADIATION SENSOR AND METHOD OF MANUFACTURING SAME

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> </ul>	:G01J5/20,H01L31/00,B82B1/00 :2015126565 :03/07/2015 :Russia :PCT/RU2016/000390 :30/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)PHOTOELECTRONIC DEVICES LLC Address of Applicant :Moscow region, Zavodskoy proezd, 2, Fryazino,141190, Russian Federation Russia</li> <li>(72)Name of Inventor :</li> <li>1)CHETVEROV Yuriy Stepanovich</li> </ul>
<ul> <li>(87) International Publication No.</li> <li>(61) Patent of Addition to</li> <li>Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA :NA	

#### (57) Abstract :

An infrared thermal detector apparatus and a method for manufacturing thereof are disclosed herein. The thermal infrared detector apparatus comprises: a pixel on a semiconductor substrate (100). The pixel comprises a first section and a second section. The first section is on a surface of the semiconductor substrate and comprises integrated circuit means (102). The second section is spaced from and immediately above the first section. The second section is planar and comprises leg portions (116) a microbridge structure (117) and a temperature responsive detector (108) affixed to the microbridge structure. The second section is supported by posts (118). One of the leg portions has one end integrally connected to the microbridge structure and another end integrally connected to one of the posts. Another one of the leg portions has one end integrally connected to the microbridge structure and another end integrally connected to the integrated circuit means via the respective posts and a thermal insulation of the microbridge structure and the temperature responsive detector to the semiconductor substrate.

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No. of Pages : 39 No. of Claims : 23

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:H02J9/06	(71)Name of Applicant :
(31) Priority Document No	:NA	1)TOSHIBA MITSUBISHI ELECTRIC INDUSTRIAL
(32) Priority Date	:NA	SYSTEMS CORPORATION
(33) Name of priority country	:NA	Address of Applicant :3 1 1 Kyobashi Chuo ku Tokyo
(86) International Application No	:PCT/JP2015/069503	1040031 Japan
Filing Date	:07/07/2015	(72)Name of Inventor :
(87) International Publication No	:WO 2017/006427	1)TOYODA Masaru
(61) Patent of Addition to Application	·NA	
Number	. N A	
Filing Date	INA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : UNINTERRUPTIBLE POWER SUPPLY DEVICE

(57) Abstract :

An uninterruptible power supply device (1) receives alternating current power with a first load (53) said alternating current power being supplied from an alternating current power supply (51). The uninterruptible power supply device (1) is provided with: a converter (2) that converts into direct current power the alternating current power supplied from the alternating current power supply (51); an inverter (4) which converts into alternating current power the direct current power generated by the converter (2) or direct current power of a battery (3) and supplies the power to a second load (54); control units (15 24 25) which control reactive power generated by the converter (2) and compensate at least a part of reactive power generated by the first load (53); and a limiter (13) that limits the reactive power generated by the converter (2) to be equal to or lower than upper limit power. The upper limit power is set to a value corresponding to a difference between the rating capacity of the uninterruptible power supply device (1) and the alternating current power to be supplied to the second load (54).



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

## (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : SCHEME FOR SHARING USER PROFILE INFORMATION IN MOBILE COMMUNICATION SYSTEM

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:H04W8/20,H04W4/16,H04W80/10 :1020150081136 :09/06/2015 :Republic of Korea :PCT/KR2016/006067 :08/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)SAMSUNG ELECTRONICS CO. LTD. Address of Applicant :129 Samsung ro Yeongtong gu Suwon si Gyeonggi do 16677 Republic of Korea</li> <li>(72)Name of Inventor :</li> <li>1)OH Gyu Bong</li> <li>2)CHOI Sung Ho</li> <li>3)YU Han II</li> </ul>
(87) International Publication No	:WO 2016/200145	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

## (57) Abstract :

A method for sharing user profile information includes transmitting a session initiation message including profile information of a first user of the terminal to a communication network server based on a sharing level for the first users profile information receiving a response message responsive to the session initiation message from the communication network server or a corresponding terminal storing or displaying profile information of a second user of the corresponding terminal if the response message includes the profile information of the second user and performing a call with the corresponding terminal.



No. of Pages : 25 No. of Claims : 15

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SYSTEMS AND METHODS FOR ASYNCHRONOUS TOGGLING OF I2C DATA LINE (51) International classification :G06F19/00 (71)Name of Applicant : (31) Priority Document No 1)LEXMARK INTERNATIONAL INC. :14/729858 (32) Priority Date Address of Applicant : IP Legal Department/Bldg 004 1 740 :03/06/2015 (33) Name of priority country West New Circle Road Lexington KY 40550 U.S.A. :U.S.A. (86) International Application No :PCT/US2016/034087 (72)Name of Inventor: Filing Date :25/05/2016 1)AHNE Adam J. (87) International Publication No :WO 2016/196118 (61) Patent of Addition to Application :NA Number :NA Filing Date (62) Divisional to Application Number :NA Filing Date :NA

(57) Abstract :

A method of operating an I2C slave having an I2C clock pin and an I2C data pin is disclosed. The method includes (a) receiving a command via the I2C clock pin and the I2C data pin (b) driving the I2C data pin to logic low for a first duration (c) not driving the I2C data pin to logic low for a second duration and (d) repeatingly alternating (b) and (c) until a termination event occurs (b) and (c) are not synchronized to transitions of the I2C clock pin. Other methods and systems are disclosed.

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

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : INPUT DEVICE AND ELECTRONIC APPARATUS FOR RECEIVING SIGNAL FROM THE INPUT DEVICE

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li><li>(33) Name of priority country</li></ul>	:G06F3/0354,G06F3/041,G06F3/0488 :62/185040 :26/06/2015 :U.S.A.	<ul> <li>(71)Name of Applicant :</li> <li>1)SAMSUNG ELECTRONICS CO. LTD. Address of Applicant :129 Samsung ro Yeongtong gu Suwon si Gyeonggi do 16677 Republic of Korea</li> <li>(72)Name of Inventor :</li> <li>1)KIM Kang nam</li> </ul>
<ul> <li>(86) International</li> <li>Application No</li> <li>Filing Date</li> <li>(87) International</li> <li>Publication No</li> </ul>	:PCT/KR2016/006563 :21/06/2016 :WO 2016/208935	
<ul> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to</li> <li>Application Number</li> <li>Filing Date</li> </ul>	:NA :NA :NA	

(57) Abstract :

An input device and an electronic apparatus for receiving a signal from the input device are provided. The input device includes a conductive tip configured to receive an electric field transmission signal generated from at least one electrode of the electronic apparatus a circuit configured to generate an electric field response signal corresponding to the electric field transmission signal a variable capacitor disposed between the conductive tip and the circuit and configured to vary the electric field response signal according to writing pressure applied to the conductive tip and a case in which the circuit and the variable capacitor are disposed. The variable capacitor includes a first electrode and a second electrode coupled to the conductive variable electrode disposed to face the first electrode and a dielectric disposed between the first electrode and the conductive variable electrode. The first electrode and the second electrode are fixed to the case.

No. of Pages : 24 No. of Claims : 15

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : OPERATING METHOD FOR APPLICATION PROGRAM AND ELECTRONIC DEVICE SUPPORTING THE SAME

<ul> <li>(51) International classification :G06F9/44,G06F11/30,G06F3/043</li> <li>(31) Priority Document No :1020150089769</li> <li>(32) Priority Date :24/06/2015</li> <li>(33) Name of priority country :Republic of Korea</li> <li>(86) International Application No Filing Date :PCT/KR2016/006726</li> <li>(87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> <li>(63) Divisional to Application Number Filing Date</li> <li>(64) Patent of Addition to Application Number Filing Date</li> <li>(65) Divisional to Application Number Filing Date</li> <li>(65) Divisional to Application Number Filing Date</li> <li>(65) Divisional to Application Number Filing Date</li> <li>(66) Divisional to Application Number Filing Date</li> <li>(67) Divisional to Application Number Filing Date</li> <li>(68) Divisional to Application Number Filing Date</li> <li>(61) Patent Of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> <li>(63) Divisional to Application Number Filing Date</li> <li>(64) Divisional to Application Number Filing Date</li> <li>(7) Divisional to Application State Stat</li></ul>	<ul> <li>(71)Name of Applicant :</li> <li>1)SAMSUNG ELECTRONICS CO. LTD. Address of Applicant :129 Samsung ro Yeongtong gu Suwon si Gyeonggi do 16677 Republic of Korea (72)Name of Inventor :</li> <li>1)KONG Ji Young</li> <li>2)GU Heum Mo</li> <li>3)KIM Sang Mi</li> <li>4)KIM Jeong Yun</li> <li>5)MIN Kyung Sub</li> </ul>
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(57) Abstract :

An electronic device including a memory storing an application program that provides a guide about a user action collects information on a performance of the user action or collects information on a user state. A processor connected to the memory is configured to execute the application program to detect a cause by which the application program is stopped and to automatically reexecute the application program or to provide a user interface for receiving a user input for the reexecution of the application program on the basis of at least a portion of the detected cause.



No. of Pages : 35 No. of Claims : 15

(21) Application No.201717046080 A

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : IMPROVED RAMAN SPECTROSCOPY SYSTEM

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to</li> </ul>	:G01J3/02,G01J3/44,G01J1/02 :15507064 :01/06/2015 :Sweden :PCT/EP2016/062398 :01/06/2016 :WO 2016/193315 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SERSTECH AB Address of Applicant :Ideon Innovation Ole Rmers vg 12</li> <li>LUND 223 70 Sweden</li> <li>(72)Name of Inventor :</li> <li>1)SZYBEK Katja</li> <li>2)SONNVIK Jan</li> </ul>
Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

A spectroscopy system (10) for analyzing in elastic scattered electromagnetic radiation from an object being irradiated by electromagnetic radiation is provided. The system comprises a tunable lens assembly (13) having a tunable lens provided in the beam path between an electromagnetic radiation source (11) and the object (0) and arranged to project a beam of electromagnetic radiation emitted from the electromagnetic radiation source onto an area of the object and receive and collimate the in elastic scattered electromagnetic radiation from the object. Based on electromagnetic radiation detected by at least a first detector (121) a control unit (14) is capable making a decision to change the operational settings of the tunable lens.

No. of Pages : 17 No. of Claims : 19

(21) Application No.201717046317 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : SOLID INSULATION MATERIAL USE THEREOF AND THE THUS PRODUCED INSULATION SYSTEM

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:H02K3/40,H02K15/12 :10 2015 213 535.7 :17/07/2015 :Germany :PCT/EP2016/061311 :19/05/2016 :WO 2017/012737 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SIEMENS AKTIENGESELLSCHAFT Address of Applicant :Werner von Siemens Strae 1 80333</li> <li>Mnchen Germany</li> <li>(72)Name of Inventor :</li> <li>1)HUBER Jrgen</li> <li>2)SCHIRM Dieter</li> <li>3)BLER Matthias</li> </ul>
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(57) Abstract :

The invention relates to a solid in particular strip shaped insulation material to the use thereof in a vacuum impregnation method to a thus produced insulation system and to an electric machine using the insulation system in particular for the medium and high voltage range that is for medium and high voltage machines in particular rotating electric machines in the medium and high voltage range and to semi finished products for electric switching systems. The solid insulation material and the thus produced insulation system is characterised by the fact that it can be produced anhydride free.

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

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : WRITING INSTRUMENT HAVING A MULTI USE TIP (51) International classification :B43K8/02,B43K1/00 (71) Name of Applicant : 1555012

(31) International classification	.D43K0/02,D43K1/00	
(31) Priority Document No	:1555813	1)SOCIETE BIC
(32) Priority Date	:24/06/2015	Address of Applicant :14 rue Jeanne dAsnires 92110 Clichy
(33) Name of priority country	:France	France
(86) International Application No	:PCT/FR2016/051450	(72)Name of Inventor :
Filing Date	:15/06/2016	1)BEZ Arnaud
(87) International Publication No	:WO 2016/207518	2)ALBENGE Olivier
<ul> <li>(61) Patent of Addition to Application</li> <li>Number</li> <li>Filing Date</li> <li>(62) Divisional to Application Number</li> </ul>	:NA :NA ·NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a writing instrument which comprises a body (12) and a writing tip (14) mounted on the body (12) the body (12) and the writing tip (14) extending in an axial direction (X) the writing tip (14) having a distal end portion (18) having a U shaped cross section.

The state

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

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:H04L5/00	(71)Name of Applicant :
(31) Priority Document No	:62/182977	1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(32) Priority Date	:22/06/2015	Address of Applicant :S 164 83 Stockholm Sweden
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/EP2015/076167	1)ASHRAF Shehzad Ali
Filing Date	:10/11/2015	2)ANSARI Junaid
(87) International Publication No	:WO 2016/206763	3)BALDEMAIR Robert
(61) Patent of Addition to Application	٠NA	4)LINDOFF Bengt
Number	.INA .NA	
Filing Date	.INA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(54) Title of the invention : DYNAMIC SELECTION OF MULTICARRIER MODE BASED ON QOS PARAMETERS

#### (57) Abstract :

In one aspect a transmitter for a first time interval allocates first and second portions of a frequency band to first and second multicarrier modulation schemes with first and second subcarrier spacings that differ from one another. The data is transmitted to wireless devices in the first time interval using the first and second multicarrier modulation schemes in the first and second portions of the frequency band. For a second time interval third and fourth non overlapping portions of a frequency band are allocated to third and fourth multicarrier modulation schemes that have third and fourth subcarrier spacings that differ from one another. The third and fourth portions and/or schemes differ from the first and second portions and/or schemes. The data is transmitted in the second time interval using the third and fourth multicarrier modulation schemes in the third and fourth portions of the frequency band.

No. of Pages : 21 No. of Claims : 32

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHODS AND APPARATUSES FOR HANDLING DATA TRAFFIC IN A RADIO NODE HAVING A SPLIT PROTOCOL STACK

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li><li>(33) Name of priority country</li></ul>	:H04W12/02,H04L29/06,H04W84/04 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :S 164 83 Stockholm Sweden</li> <li>(72)Name of Inventor :</li> <li>1)KRISHNAN Suresh</li> </ul>
(86) International Application No Filing Date	:PCT/US2015/038237 :29/06/2015	
(87) International Publication No	:WO 2017/003418	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

In one aspect of the teachings herein a radio node provides a local loopback mode of operation in at least some operational instances in which it loops local traffic between wireless devices operating within a local radio cell or cells rather than forwarding such traffic along to a controlling gateway for handling. The wireless devices operating within the cell(s) and involved in the loopback operation switch over from symmetric encryption that involves the controlling gateway as a secure endpoint for their traffic to asymmetric or public private key pair encryption. The radio node uses a correspondingly derived loopback encryption key to enable security on the loopback traffic flow between the involved local devices. Use of the loopback encryption key means that the radio node need not know or otherwise have access to the symmetric encryption keys used by the involved devices and the controlling gateway for normal non loopback operation.

No. of Pages : 22 No. of Claims : 32

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : MICROBIAL INOCULANTS FERTILISER COMPOSITIONS GROWTH MEDIUMS AND METHODS FOR ENHANCING PLANT GROWTH

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No <ul> <li>Filing Date</li> <li>(87) International Publication</li> </ul> </li> <li>No <ul> <li>(61) Patent of Addition to</li> <li>Application</li> </ul> </li> </ul>	a:C05F11/08,A01N63/02,C12N1/20 :2015902251 :05/06/2015 :Australia :PCT/AU2016/050453 :03/06/2016 :WO 2016/191828 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SUSTAINABLE ORGANIC SOLUTIONS PTY LTD Address of Applicant :24 Kaleena Street Middle Park</li> <li>Queensland 4074 Australia</li> <li>(72)Name of Inventor :</li> <li>1)WEST Stephen</li> <li>2)SAGULENKO Evgeny</li> <li>3)KINAEV Nikolai</li> </ul>
Application Number Filing Date	:NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to microbial inoculants fertiliser compositions growth mediums and methods for enhancing plant growth. In one aspect the invention relates to a method of increasing plant growth plant productivity seed germination or soil quality for a dicotyledonous plant or a monocotyledonous plant the method comprising the step of: applying to the plant a treatment agent comprising at least one plant beneficial Burkholderia like species.



No. of Pages : 33 No. of Claims : 18
(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:A01N43/40,A61K31/44	(71)Name of Applicant :
(31) Priority Document No	:62/171138	1)CHROMADEX INC.
(32) Priority Date	:04/06/2015	Address of Applicant :10005 Muirlands Blvd. Suite G Irvine
(33) Name of priority country	:U.S.A.	CA 92618 U.S.A.
(86) International Application No	:PCT/US2016/035729	2)THE QUEENS UNIVERSITY OF BELFAST
Filing Date	:03/06/2016	(72)Name of Inventor :
(87) International Publication No	:WO 2016/196941	1)MIGAUD Marie Eugenie
(61) Patent of Addition to Application	.N. 4	2)REDPATH Philip
Number	.INA .NA	3)CROSSEY Kerri
Filing Date	INA	4)CUNNINGHAM Richard
(62) Divisional to Application Number	:NA	5)RHONEMUS Troy
Filing Date	:NA	6)VENKATARAMAN Sylesh

#### (54) Title of the invention : SELECTIVE SOLVENT FREE PHOSPHORYLATION

(57) Abstract :

A synthetic process is provided for the preparation of phosphorylated analogs of nicotinamide riboside (NR) having the formula (I) or salts thereof and reduced or modified derivatives thereof having the formula (II) wherein X Y1 Y2 Z1 Z2 n R1 R2 R3 R4 R5 R6 and R7 are as defined herein. The present disclosure also relates to the preparation of phosphorylated analogs of nicotinic acid riboside (NAR) having the formula (I) or salts thereof and reduced or modified derivatives thereof having the formula (II). Generally solvent free conditions are employed using appropriate mechano chemical techniques as described. (I) (II)

No. of Pages : 43 No. of Claims : 30

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHOD FOR PRODUCING A PLASTIC FRAME FOR A TWO WHEELED VEHICLE

(51) International classification	:B62M6/40,B62K19/16,B62K19/30	(71)Name of Applicant : 1)WOLFSBERGER Christian
(31) Priority Document No	:10 2015 008 561.1	Address of Applicant : Wallseerstr. 5 4100 Ottensheim Austria
(32) Priority Date	:02/07/2015	(72)Name of Inventor :
(33) Name of priority country	:Germany	1)WOLFSBERGER Christian
(86) International Application No Filing Date	:PCT/EP2016/000536 :31/03/2016	
(87) International Publication No	:WO 2017/001031	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The invention relates to a method for producing a plastic frame for a two wheeled vehicle by means of plastic injection molding said plastic frame having at least one cavity in the interior said method comprising a series of steps wherein after a preferably thermoplastic plastic melt has been injected into a closed injection molding tool a fluid is injected in order to displace the plastic core out of the component cavity.



No. of Pages : 13 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
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#### (19) INDIA

(22) Date of filing of Application :21/12/2017

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : NOVEL XYLANASE

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li><li>(33) Name of priority country</li><li>(86) International Application</li><li>No</li></ul>	:C12N15/09,C12N1/15,C12N1/19 :2015128823 :26/06/2015 :Japan :PCT/JP2016/067996 :16/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)KAO CORPORATION Address of Applicant :14 10 Nihonbashi Kayabacho 1 chome Chuo ku Tokyo 1038210 Japan (72)Name of Inventor : 1)SHIBATA Nozomu</li></ul>
Filing Date	:16/06/2016	2)SUETSUGU Mari
(87) International Publication No	:WO 2016/208492	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Provided is a novel xylanase having a high xylanase activity. A protein that comprises an amino acid sequence described in (a) (b) or (c) and has a xylanase activity: (a) an amino acid sequence corresponding to the amino acids at the 23rd 404th positions of SEQ ID NO:2; (b) an amino acid sequence having at least 90% identity to the amino acid sequence corresponding to the amino acids at the 23rd 404th positions of SEQ ID NO:2; by deletion insertion substitution or addition of one or more amino acids.

No. of Pages : 54 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHOD FOR PRODUCING O [1 (2 HYDROXYPROPYL)]OXIME COMPOUND

(51) International classification	:C07C249/12,C07C249/14,C07C251/54	(71)Name of Applicant : 1)NISSAN CHEMICAL INDUSTRIES LTD.
(31) Priority Document No	:2015104803	Address of Applicant :7 1 Kanda Nishiki cho 3 chome Chiyoda ku Tokyo 1010054 Japan
(32) Priority Date	:22/05/2015	(72)Name of Inventor :
(33) Name of priority country	:Japan	1)SAITO Hirohisa 2)AKEBOSHI Tomohiro
(86) International Application No Filing Date	:PCT/JP2016/065198 :23/05/2016	3)UTSUNOMIYA Tomohisa
(87) International Publication No	:WO 2016/190280	
<ul> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to</li> <li>Application Number</li> </ul>	:NA :NA :NA	
Filing Date	:NA	

(57) Abstract :

There is provided an inexpensive and efficient method for producing an 0-[1-(2-hydroxypropyl)] oxime compound with an extremely high purity which is suitable as an intermediate for pharmaceuticals, agrochemicals, or electronic materials, for example. An industrially useful method for producing the 0-[1-(2-hydroxypropyl)] oxime compound with an extremely high purity of formula (1) (wherein R1 and R2 are each independently a C\.6 alkyl group), comprising steps (a) to (c) below.

No. of Pages : 56 No. of Claims : 9

(21) Application No.201717046089 A

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PHYSICAL TOPOLOGY FOR A POWER CONVERTER

<ul> <li>(51) International</li> <li>classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority</li> <li>country</li> <li>(86) International</li> </ul>	:H01L29/73,H01L23/48,H02M3/155 :62/183437 :23/06/2015 :U.S.A. :PCT/CA2016/050702	<ul> <li>(71)Name of Applicant :</li> <li>1)TM4 INC.</li> <li>Address of Applicant :135 J. Armand Bombardier Bureau 25</li> <li>Boucherville Qubec J4B 8P1 Canada</li> <li>(72)Name of Inventor :</li> <li>1)CYR Jean Marc</li> <li>2)AMAR Mohammed</li> </ul>
Application No Filing Date	:16/06/2016	3)EL YACOUBI Maalainine 4)FLEURY Pascal
(87) International Publication No	<sup>h</sup> :WO 2016/205929	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

A physical topology for receiving top and bottom power electronic switches comprises a top collector trace connected to a positive voltage power supply tab and having a connection area for a collector of a top power electronic switch a bottom emitter trace connected to a negative voltage power supply tab and having a connection area for an emitter of the bottom power electronic switch and a middle trace connected to a load tab and having a connection area for an emitter of the top power electronic switch and a connection area for a collector of the bottom power electronic switch. Sampling points are provided on the traces for voltages on the emitters of the top and bottom power electronic switches on the trace for voltage of the collector of the bottom power electronic switch and on the negative voltage power supply tab. The topology defines parasitic inductances. Sample voltages can be supplied to gate driver references.



No. of Pages : 24 No. of Claims : 16

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : TYROSINE KINASE INHIBITORS

(51) International classification:C07D471/04,C07D473/34,A61K31/437(31) Priority Document No:62/170547(32) Priority Date:03/06/2015(33) Name of priority country:U.S.A.(86) International Filing Date:PCT/US2016/035588 :02/06/2016(87) International Publication No (61) Patent of Addition to Filing Date:WO 2016/196840(62) Divisional to Filing Date:NA :NA :NA(82) Divisional to Filing Date:NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)PRINCIPIA BIOPHARMA INC. Address of Applicant :400 East Jamie Court Suite 302 South San Francisco California 94080 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)GOLDSTEIN David</li> <li>2)OWENS Timothy D.</li> </ul>
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#### (57) Abstract :

The present disclosure provides compounds that are tyrosine kinase inhibitors in particular Bruton tyrosine kinase (BTK) inhibitors and are therefore useful for the treatment of diseases treatable by inhibition of BTK such as cancer autoimmune inflammatory and thromboembolic diseases. Also provided are pharmaceutical compositions containing such compounds and processes for preparing such compounds.

No. of Pages : 108 No. of Claims : 51

(22) Date of filing of Application :22/12/2017

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : PNEUMATICALLY ADJUSTABLE CONTINUOUSLY VARIABLE TRANSMISSION

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:F16H9/18,F16H63/06 :10 2015 214 129.2 :27/07/2015 :Germany :PCT/EP2016/063014 :08/06/2016 :WO 2017/016729 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20 70442 Stuttgart</li> <li>Germany</li> <li>(72)Name of Inventor :</li> <li>1)GERUNDT Oliver</li> <li>2)KRASTEV Ianislav</li> <li>3)SCHWARTZ Daniel</li> <li>4)DREWE Ingo</li> <li>5)KLYMENKO Mykhaylo</li> <li>6)EYDAM Rudolf</li> <li>7)DIEKMANN Ralf</li> <li>8)BREITINGER Carolin</li> </ul>
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(57) Abstract :

The invention relates to a continuously variable transmission (CVT) comprising: a V pulley (2) that includes at least one axially movable conical disk (21); an adjusting device (5) for adjusting a position of the axially movable conical disk (21); and a control unit (6) designed to actuate the adjusting device (5) in order to change the position of the axially movable conical disk (21). The adjusting device (5) is a pneumatic adjusting device that moves the axially movable conical disk (21) by a pneumatic force.

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

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

# (54) Title of the invention : SHIPPABLE NETWORK ATTACHED DATA STORAGE DEVICE WITH UPDATEABLE ELECTRONIC DISPLAY

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:G06Q10/08,G06Q50/28 :14/788671 :30/06/2015 :U.S.A. :PCT/US2016/040510 :30/06/2016 :WO 2017/004431 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)AMAZON TECHNOLOGIES INC. Address of Applicant :P.O. Box 81226 Seattle Washington 98108 1226 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)LAZIER Colin Laird</li> <li>2)VASS William J.</li> </ul>
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#### (57) Abstract :

A network attachable data transfer device housed within a shippable enclosure that incorporates an updateable electronic display for displaying shipping destination information is disclosed. The device may be initialized (e.g. prepared to receive data and the updateable electronic shipping display set to the shipping destination) by a service provider and shipped in accordance with the displayed destination address as a self contained shipping unit. The device may be installed onto a network at the destination and loaded with data. The display may also be updated with the next destination address such that the device is shipped to the updated destination address (e.g. back to the service provider or onto other destinations before being send back to the service provider). When the device is received back at the service provider the data is transferred from the device to a service provider storage facility wiped of data and prepared to be sent out again.



No. of Pages : 26 No. of Claims : 15

(21) Application No.201717046464 A

#### (19) INDIA

(22) Date of filing of Application :23/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : LOW MICROGEL SURFACE PROTECTION FILM

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:B23D23/04,C08L23/06,C08L23/08 :62/171473 :05/06/2015 :U.S.A. :PCT/US2016/035770 :03/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)TREDEGAR FILM PRODUCTS CORPORATION <ul> <li>Address of Applicant :1100 Boulders Parkway Richmond VA</li> </ul> </li> <li>23225 U.S.A.</li> <li>(72)Name of Inventor : <ul> <li>1)RAY Carl Douglas</li> <li>2)PATEL Shailesh Chunilal</li> <li>3)DESAI Bankim Bhupendra</li> </ul> </li> </ul>
(87) International Publication No	:WO 2016/196965	4)YOURSHAW James Mason
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A method of refining a polymer resin material is provided. The method comprises melting and subjecting the resin material to shear stresses in a range of 250 kPa to 400 kPa to form a refined resin material. The refined resin material may be extruded solidified and cut into reduced microgel resin pellets which may be subsequently melted and extruded to form a reduced microgel film.

No. of Pages : 19 No. of Claims : 22

(19) INDIA

(22) Date of filing of Application :23/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:C12Q1/68	(71)Name of Applicant :
(31) Priority Document No	:1510876.4	1)CAMBRIDGE ENTERPRISE LIMITED
(32) Priority Date	:19/06/2015	Address of Applicant : The Old Schools Trinity Lane
(33) Name of priority country	:U.K.	Cambridge Cambridgeshire CB2 1TN U.K.
(86) International Application No	:PCT/GB2016/051831	(72)Name of Inventor :
Filing Date	:17/06/2016	1)LEE Helen
(87) International Publication No	:WO 2016/203267	2)POWELL Michael
(61) Patent of Addition to Application	·NI A	
Number		
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : DIAGNOSIS AND TREATMENT OF INFECTIOUS DISEASE

(57) Abstract :

Methods are described for determining whether a subject suffering from or suspected of suffering from an infectious disease caused by a microbe is infected with a strain of the microbe that is susceptible to an antimicrobial agent where there exist different strains of the microbe that are resistant to the antimicrobial agent. The methods comprise determining whether nucleic acid of the strain of the microbe infecting the subject comprises wild type nucleotide sequence at a conserved nucleotide position at which mutation is associated with resistance to the antimicrobial agent in nucleic acid of the different resistant strains. The methods are particularly applicable for determining whether a subject suffering from or suspected of suffering from Gonorrhoea is infected with a strain of Neisseria gonorrhoeae that is susceptible to an antimicrobial agent. Kits for use in the methods are described as well as methods for treatment of infectious disease. Methods for reducing the prevalence of resistance of microbes causing infectious disease to antimicrobial agents are also described.



No. of Pages : 50 No. of Claims : 40

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : MICROALGAE PRODUCTION PROCESS AND EQUIPMENT		
<ul> <li>(54) Title of the invention : MICROALGA</li> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> <li>Filing Date</li> </ul> </li> </ul>	E PRODUCTION PROC :C12M1/04,C12M1/00 :1511545.4 :01/07/2015 :U.K. :PCT/IB2016/053966 :01/07/2016 :WO 2017/002084 :NA :NA	(71)Name of Applicant : 1)NELSON MANDELA UNIVERSITY Address of Applicant :Room 1207 12th Floor Main Building Nelson Mandela Metropolitan University Summerstrand Campus (South) University Way Summerstrand 6031 Port Elizabeth South Africa (72)Name of Inventor : 1)ZEELIE Bernard 2)BARNARD Johan Pieter
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Microalgae cultivation equipment for the cultivation of microalgae is provided in which a raceway is modified so as to contain multiple generally upright photobioreactor columns spaced apart along its length so as to increase the total surface area of liquid growth medium directly exposed to light and to improve the transfer of CO2 from the gas phase to the liquid phase by providing adequate height inside the vertical photobioreactor columns. The lowermost ends of the photobioreactor columns are immersed inside the liquid growth medium in the raceway component and are fed with liquid growth medium by a circulation promoting facility circulating the liquid growth medium from the raceway through the photobioreactor columns to become discharged back into the raceway. Gas inlets provide CO2 containing gas bubbles passing upwards in each of the photobioreactor columns. One or more paddle wheels or jet pumps induce a flow of liquid growth medium within the raceway.



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

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : LABORATORY INSTRUMENT INDUSTRIAL DESIGN CUSTOMIZATION FOR CUSTOMER PERSONALIZATION

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(33) Name of priority country</li> <li>(34) International Application No</li> <li>(51) International Publication No</li> <li>(52/1674</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(34) Name of priority country</li> <li>(35) International Application No</li> <li>(36) International Publication No</li> <li>(37) International Publication No</li> <li>(37) International Publication No</li> <li>(37) International Publication No</li> <li>(37) NA</li> <li>(37) International Publication No</li> <li>(37) NA</li> <li>(38) Name of Publication Number</li> <li>(39) Name of Publication Number</li> <li>(31) Publication Number</li> <li>(32) Divisional to Application Number</li> <li>(32) NA</li> <li>(33) Name of Publication Number</li> <li>(34) NA</li> </ul>	1/00(71)Name of Applicant :74291)BECTON DICKINSON AND COMPANY2015Address of Applicant :1 Becton Drive Franklin Lakes NJ07417 U.S.A.07417 U.S.A.20161)SHINDLEDECKER Scott016/1916572)SKEVINGTON Edward3)POHL Brent Ronald4)DIEMERT Dustin5)GUILLET Thierry
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(57) Abstract :

A customizable laboratory instrument comprising an interior space for receipt of test materials therein. An indented exterior surface of the laboratory instrument defines a boundary surface a backing surface and a sidewall. The backing surface is offset from the boundary surface a distance substantially equal to a depth of the sidewall. A panel having an edge is attachable to the sidewall such that a space is formed between the panel and backing surface for receipt of an object therein.

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

(21) Application No.201717046344 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHOD FOR CONTROLLING NOTIFICATION AND ELECTRONIC DEVICE THEREOF

(57) Abstract :

An electronic device and operation method of the electronic device are provided. The method comprises displaying an object for displaying a notification in response to detecting an input for the object storing the notification in a region corresponding to the detected input among at least one region and displaying an indication for indicating that the notification is stored.

No. of Pages : 20 No. of Claims : 14

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : APPARATUS AND METHOD FOR CUTTING PRINTING OR EMBOSSING

(51) International classification	:B41F16/00,B41F33/00,B41F13/56	(71)Name of Applicant : 1)AB GRAPHIC INTERNATIONAL LTD
(31) Priority Document No	:GB1509471.7	Address of Applicant : Lancaster Road Carnaby Industrial
(32) Priority Date	:02/06/2015	Estate Bridlington Y015 3QY U.K.
(33) Name of priority country	:U.K.	(72)Name of Inventor :
(86) International Application	:PCT/GB2016/000102	1)ADAMS Mike
No	:19/05/2016	2)WRACK Phil
Filing Date		
(87) International Publication No	:WO 2016/193650	
(61) Patent of Addition to	:NA	
Filing Date	:NA	
(62) Divisional to Application	:NA	
Number Filing Date	:NA	

(57) Abstract :

The invention relates to an apparatus (10 80) and method (160) for cutting printing or embossing a continuous sheet (26) of material. The apparatus (10 80) comprising a tool element (12) at least two anvils 14 16 which are co operable with the tool element (12) and a phase adjustment device (24). The tool element (12) is configured to have a constant surface speed during operation of the apparatus (10 80). The apparatus (10 80) is adapted to receive the continuous sheet (26) at a constant speed into the apparatus (10 80) and being adapted to output the continuous sheet (26) at a constant speed from the apparatus (10 80). The phase adjustment device (24) is operable to adjust a speed of the continuous sheet (26) within the apparatus (10 80) in order to adjust a phase of alternate parts of the continuous sheet (26) to be cut printed or embossed by each anvil (14 16) as it co operates with the tool element (12).

No. of Pages : 35 No. of Claims : 47

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : VEHICLE BODY FOR RAILWAY VEHICLE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International</li> <li>Application No Filing Date</li> <li>(87) International Publication</li> </ul>	:B61D15/06,B61D17/06,B61G11/16 :2015112946 :03/06/2015 :Japan :PCT/JP2016/002622 :31/05/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)KAWASAKI JUKOGYO KABUSHIKI KAISHA Address of Applicant :1 1 Higashikawasaki cho 3 chome Chuo ku Kobe shi Hyogo 6508670 Japan</li> <li>(72)Name of Inventor :</li> <li>1)SANO Atsushi</li> <li>2)KAWAKAMI Naoaki</li> <li>3)YOSHIDA Naohiro</li> <li>4)HATA Shinichiro</li> </ul>
No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:NA :NA :NA :NA	5)YAGI Seiichiro 6)TOMIZAWA Masayuki

(57) Abstract :

A vehicle body for a railway vehicle comprises: a base frame; a first member which is supported by the base frame while being disposed further toward one vertical side than the vertical center of the base frame and absorbing collision energy; and a second member which is supported by the base frame while being disposed further toward the other vertical side than the vertical center of the base frame and which when the first member is compressed by a collision with an obstacle comes into contact with the obstacle. When the first member is compressed by the collision with the obstacle the second member is subjected to a reaction force from the obstacle and transmits a moment load to the base frame the moment load acting in the rotational direction opposite the rotational direction of a moment load transmitted to the base frame by the first member.



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

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : MULTILAYER MEDIA BED FILTER WITH IMPROVED BACKWASH

(51) International classification	:B01D24/00,B01D24/14,B01D24/46	(71)Name of Applicant : 1)NEPTUNE BENSON LLC
(31) Priority Document No	:62/169807	Address of Applicant :6 Jefferson Drive Coventry Rhode
(32) Priority Date	:02/06/2015	Island 02816 U.S.A.
(33) Name of priority country	v:U.S.A.	(72)Name of Inventor :
(86) International	·PCT/US2016/035216	1)SILVERWOOD Alain
Application No Filing Date	:01/06/2016	2)BOSISIO Marco
(87) International Publication No	:WO 2016/196594	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A multi layer media bed filter with an increasing density of media from the finest media on the top to the coarsest media on the bottom is backwashed using air without significantly disrupting stratification of the media layers. When the air is stopped the contaminants in the liquid above the finest media that were removed by the airflow are flushed away either with liquid injected above the media or by a liquid flow through the media that does not remove the finest media. The amount of contaminants that remain in the finest media with the stratification maintaining air backwash is significantly less than when using liquid backwash alone whether the liquid backwash uses a flow rate sufficient to suspend the micromedia or below a suspending flow rate.



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

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> </ul> </li> </ul>	:F02D29/02, :2016-144407 :22/07/2016 :Japan :PCT/JP2016/076713 :09/09/2016 :WO / 2018/016085 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SHINDENGEN ELECTRIC MANUFACTURING CO.,</li> <li>LTD <ul> <li>Address of Applicant :2-1, OHTEMACHI 2-CHOME,</li> <li>CHIYODA-KU, TOKYO-TO, JAPAN Japan</li> <li>(72)Name of Inventor :</li> <li>1)TAKAYUKI MEGURO</li> <li>2)MITSUHIRO KIMURA</li> </ul> </li> </ul>
(61) Patent of Addition to Application Number Filing Date	:NA :NA	2)MITSUHIRO KIMURA
(62) Divisional to Application Number Filing Date	:NA :NA	

(54) Title of the invention : CONTROLLING APPARATUS AND CONTROLLING METHOD OF HYBRID VEHICLE

(57) Abstract : [Problem] To make quick determination relating to assisting starting of a hybrid vehicle. [Solution] A control apparatus 1 according to one embodiment of the present invention is for a hybrid vehicle 30 having a motor generator 3 that is mechanically connected to an internal combustion engine 2, that is capable of generating electric power by rotation of the internal combustion engine 2, and that is capable of applying torque to the internal combustion engine 2. This control apparatus is provided with: a rotation information acquisition unit 11 that acquires rotation information of the motor generator 3 in higher resolution than that of the internal combustion engine 2; and an assistance determination unit 12 that makes determination relating to assisting starting by the motor generator 3 on the basis of the rotation information of the motor generator 3.

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No. of Pages : 33 No. of Claims : 10

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : SCROLL TY	PE FLUID MACHINE	
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application <ul> <li>Number</li> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:F04C18/02 :NA :NA :NA :PCT/JP2015/065974 :03/06/2015 :WO 2016/194156 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO.</li> <li>LTD. <ul> <li>Address of Applicant :3 Kanda Neribei cho Chiyoda ku Tokyo</li> </ul> </li> <li>10022 Japan</li> <li>(72)Name of Inventor : <ul> <li>1)WATANABE Sho</li> <li>2)SAKAMOTO Susumu</li> <li>3)KOBAYASHI Yoshio</li> <li>4)IWANO Kiminori</li> </ul> </li> </ul>

#### (57) Abstract :

The present invention makes a lap clearance between a fixed scroll and an turning scroll as small as possible to suppress leakage of compressed fluid from a compression chamber in a compression operation thereby improving a compression efficiency. Provided is a scroll type fluid machine characterized by comprising: a fixed scroll having a scroll lap portion; and an orbiting scroll that is provided to face the fixed scroll and that has a scroll lap portion turning so as to form a plurality of compression chambers in a clearance relative to the lap portion of the fixed scroll wherein the lap portion of at least one of the fixed scroll and the turning scroll is provided with in a predetermined region a recessed portion on one lateral surface thereof and a protruding portion on the other lateral surface thereof.

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No. of Pages : 14 No. of Claims : 13

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SUPPORT MATERIALS FOR 3D PRINTING

<ul> <li>(51) International</li> <li>classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> <li>(87) International Publication</li> </ul>	:C09D101/28,B29C67/00,C08L1/28 :62/172850 :09/06/2015 :U.S.A. :PCT/US2016/035463 :02/06/2016	<ul> <li>(71)Name of Applicant :</li> <li>1)DOW GLOBAL TECHNOLOGIES LLC Address of Applicant :2040 Dow Center Midland MI 48674 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)BAYER Roland</li> <li>2)WAGNER Anette</li> <li>3)PYZIK Aleksander J.</li> </ul>
No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:WO 2016/2006/3 :NA :NA :NA	

(57) Abstract :

A three dimensionally printed article is comprised of a hydroxyethyl methylcellulose (HEMC) having a DS of 1.7 to 2.5 and an MS of at least 0.5 wherein DS is the degree of substitution of methoxyl groups and MS is the molar substitution of hydroxyethoxyl groups. The HEMC may advantageously be used as a support material when making a three dimensionally printed article using a build material such as a different thermoplastic polymer such as a poly(acrylonitrile butadiene styrene) polylactic acid polyethylene and polyprophylene. When the HEMC is a support material it may be easily removed from the build material by contacting the three dimensionally printed article with water which may be at ambient temperatures and a pH that is neutral or close to neutral.

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

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

#### (43) Publication Date : 09/02/2018

## (54) Title of the invention : SYSTEM FOR THE DETECTION AND THE EARLY PREDICTION OF THE APPROACHING OF EXACERBATIONS IN PATIENTS SUFFERING FROM CHRONIC OBSTRUCTIVE BRONCOPNEUMATY

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:G06F19/00 :NA :NA :NA :PCT/IT2015/000146 :03/06/2015 :WO 2016/194007 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ol> <li>LABORATORI DI INFORMATICA APPLICATA DI</li> </ol> </li> <li>(GIUSEPPE CAPASSO <ul> <li>Address of Applicant :Via Fratelli Cairoli 38 I 09134 Cagliari</li> </ul> </li> <li>(CA) Italy </li> <li>(72)Name of Inventor : <ul> <li>ANTONELLI INCALZI Raffaele Franco</li> </ul> </li> <li>(2)BARBARA Francesca Maria</li> <li>3)BUSSU Angela Maria</li> <li>4)CAPASSO Giuseppe</li> <li>(3)IANNELLO Giulio</li> <li>(3)MERONE Mario</li> <li>(7)ONOFRI Leonardo</li> <li>(7)ONOFRI Leonardo</li> <li>(7)SODA Paolo</li> </ul>
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#### (57) Abstract :

The present invention concerns a system (S) for the detection and early warning of the incoming of acute events in patients with chronic obstructive pulmonary disease comprising: at least one device (D) for the detection of physiological parameters (R) that can be applied to said patient to be monitored; at least one timer for detecting time intervals such as date and time associated with said detected physiological parameters (R); at least one emission device of sound and/or visual alarm signals capable of emitting an sound and/or visual output warning signal associated with said physiological detected parameters (R); a control logic unit (C) connectable to said at least one device (D) and at least one timer and capable of controlling said at least one emission signals device suitable to receive in input said physiological detected parameters (R) and said time intervals said control logic unit (C) being provided with a processing program in which thresholds of predetermined values reached by said physiological parameters (R) are initially stored which runs the following steps: associating said detected physiological parameters (R) with the time intervals in which the detection algorithm; comparing said statistical indexes obtained in the preceding step with said predetermined threshold and activating said at least one signals emission device for the emission of a sound and/or visual warning signal if at least one of said statistical indexes exceeds said corresponding predetermined threshold.



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

(21) Application No.201717046362 A

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES BASED ON TISSUE TYPE

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li><li>(33) Name of priority country</li></ul>	:A61B18/14,A61B17/32,A61B18/00 :62/186984 :30/06/2015	<ul> <li>(71)Name of Applicant :</li> <li>1)ETHICON LLC Address of Applicant :#475 Street C Suite 401 Los Frailes Industrial Park Guaynabo 00969 U.S.A.</li> <li>(72)Name of Inventor :</li> </ul>
<ul> <li>(86) International</li> <li>Application No Filing Date</li> <li>(87) International Publication</li> </ul>	:PCT/US2016/039218 :24/06/2016	<ol> <li>(72) Aunce of Inventor 1</li> <li>1)STULEN Foster B.</li> <li>2)MADAN Ashvani K.</li> <li>3)HOUSER Kevin L</li> </ol>
No (61) Patent of Addition to Application Number Filing Date	:WO 2017/003852 :NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Various forms are directed to systems and methods for coagulation and dissection of tissue. A surgical instrument includes an end effector configured to seal and dissect tissue at a distal end thereof and a generator circuit that is configured to deliver energy to the end effector. A force sensor is in communication with the end effector and is configured to measure a force being applied to the tissue by the end effector. The energy delivered to the end effector is dynamic based on a determination of the type of tissue interacting with the end effector. The tissue type is determined based on a tissue coefficient that is calculated based on the measured force applied to the tissue by the end effector the ultrasonic motion of the end effector and a rate of heat generated by the end effector.

No. of Pages : 72 No. of Claims : 110

(54) Title of the invention : ANTIBODIES AGAINST OX40 AND USES THEREOF

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to</li> <li>Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> <li>(62) Divisional to Application</li> </ul>	:C07K16/28,A61K39/395,A61P35/00 :62/168377 :29/05/2015 :U.S.A. :PCT/US2016/034470 :26/05/2016 :WO 2016/196228 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ul> <li>I)BRISTOL MYERS SQUIBB COMPANY</li> <li>Address of Applicant :Route 206 And Province Line Road Princeton</li> <li>NJ 08543 U.S.A.</li> </ul> </li> <li>(72)Name of Inventor : <ul> <li>I)CAI Zhehong</li> <li>2)CHAKRABORTY Indrani</li> <li>3)GARCIA Marie Michelle Navarro</li> <li>4)KEMPE Thomas D.</li> <li>5)KORMAN Alan J.</li> <li>6)KOZHICH Alexander T.</li> <li>7)LEMAR Hadia</li> <li>8)MAURER Mark</li> <li>9)MILBURN Christina Maria</li> <li>10)QUIGLEY Michael</li> <li>11)RODRIGUEZ Maria</li> <li>12)SHAO Xiang</li> <li>13)SRINIVASAN Mohan</li> <li>14)STEVENS Brenda L.</li> <li>15)THUDIUM Kent</li> <li>16)WONG Susan Chien Szu</li> <li>17)GOKEMEIJER Jochem</li> <li>18)WANG Xi Tao</li> <li>19)CHANG Han</li> <li>20)HUANG Christine</li> <li>21)JURE KUNKEL Maria</li> <li>22)YANG Zheng</li> <li>23)FENG Yan</li> <li>24)GUIRNALDA Patrick</li> <li>25)LONBERG Nils</li> <li>26)BARNHART Bryan C.</li> <li>27)YAMNIUK Aaron P.</li> <li>28)HENNING Karla A.</li> <li>29)HAN Michelle Minhua</li> <li>30)LEI Ming</li> <li>31)SCHWEIZER Liang</li> <li>32)HATCHER Sandra V.</li> <li>33)RAJPAL Arvind</li> <li>34)AANUR Praveen</li> </ul></li></ul>

(57) Abstract :

Provided herein are antibodies or antigen binding portions thereof that bind to OX40. Also provided are uses of these proteins in therapeutic applications such as in the treatment of cancer. Further provided are cells that produce the antibodies polynucleotides encoding the heavy and/or light chain variable region of the antibodies and vectors comprising the polynucleotides encoding the heavy and/or light chain variable region of the antibodies.



No. of Pages : 294 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : BIOMASS CONVERSION PROCESS USING AMORPHOUS SILICA ALUMINA TO OBTAIN A MONOOXYGENATED STREAM

#### (57) Abstract :

An improved process for the production of a higher hydrocarbon from solid biomass is provided. Solid biomass that has been digested and hydrodeoxygenated in a liquid digestive solvent in the presence of a hydrothermal hydrocatalytic catalyst is separated to an organic rich phase and an aqueous rich phase containing diols. At least a portion of the aqueous rich phase is contacted with an acidic amorphous silica alumina catalyst producing monooxygenate containing stream comprising water organic monooxygenates and unsaturated aliphatic hydrocarbons. At least a portion of the monooxygenate containing stream is contacted with a solid acid condensation catalyst to produce a higher hydrocarbons stream. At least a portion of the organic rich phase is also contacted with a solid acid condensation catalyst to produce a higher hydrocarbons stream.

No. of Pages : 28 No. of Claims : 23

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : HIGH PRESSURE RESISTANT FILTER

(51) International	:B01D46/52.B01D46/00.B01D35/30	(71)Name of Applicant :
classification		1)SAINT GOBAIN PERFORMANCE PLASTICS
(31) Priority Document No	:62/172789	CORPORATION
(32) Priority Date	:08/06/2015	Address of Applicant :31500 Solon Road Solon OH 44139
(33) Name of priority country	/:U.S.A.	U.S.A.
(86) International	DCT/LIS2016/026000	(72)Name of Inventor :
Application No	PC1/052010/050099	1)LIN Zhenwu
Filing Date	:00/00/2010	2)ANDREWS Jacob
(87) International Publication No	:WO 2016/200745	
(61) Patent of Addition to	•N A	
Application Number		
Filing Date	INA	
(62) Divisional to	•NT 4	
Application Number	INA NA	
Filing Date	:INA	

(57) Abstract :

A filter cartridge constructed to prevent an enclosed pleated filter from collapsing into the through bores formed In a rigid core in high differential pressure applications. The core is modified with reduced dimension bores to reduce the area of filter material not supported by the core. Alternatively or in addition a semi rigid or rigid core wrap is superposed about the core to add further structural support to the pleated filter. The wrap is formed as a webbed structure with the thickness and spacing of the webbing segments adjusted to partially occlude the underlying core though bores. This reduces the effective cross sectional diameter of the through bores to reduce the overall area of the pleated filter unsupported by the core. The through bores may have modified shapes to maintain the area of the through bore and reduce the distance of the through bore center point from portions of the core wail defining the through bore. The core also may be modified with clustered through bores regions.

No. of Pages : 16 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ANTIBODY DRUG CONJUGATES (ADCS) AND ANTIBODY PRODRUG CONJUGATES (APDCS) WITH ENZYMATICALLY CLEAVABLE GROUPS

		(71)Name of Applicant :
(51) International classification	:A61K47/48,A61P35/00	1)BAYER PHARMA AKTIENGESELLSCHAFT
(31) Priority Document No	:15173102.3	Address of Applicant :Mllerstr. 178 13353 Berlin Germany
(32) Priority Date	:22/06/2015	(72)Name of Inventor :
(33) Name of priority country	:EPO	1)LERCHEN Hans Georg
(86) International Application No	:PCT/EP2016/064118	2)REBSTOCK Anne Sophie
Filing Date	:20/06/2016	3)CANCHO GRANDE Yolanda
(87) International Publication No	:WO 2016/207089	4)MARX Leo
(61) Patent of Addition to Application	·NA	5)STELTE LUDWIG Beatrix
Number	·NA	6)TERJUNG Carsten
Filing Date	.11A	7)MAHLERT Christoph
(62) Divisional to Application Number	:NA	8)GREVEN Simone
Filing Date	:NA	9)SOMMER Anette
		10)BERNDT Sandra

(57) Abstract :

The invention relates to novel antibody prodrug conjugates (ADCs) in which antibodies with inactive precursor compounds of kinesin spindel protein inhibitors are conjugated and to antibody drug conjugate (ADCs) and to a method for producing said APDCs or ADCs.

No. of Pages: 831 No. of Claims: 55

### (19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : MULTIJUNCTION PHOTOVOLTAIC DEVICE

(51) International classification (31) Priority Document No	:H01L27/30,H01L51/44,H01L51/46 :1510353 4	(71)Name of Applicant : 1)OXFORD PHOTOVOLTAICS LIMITED Address of Applicant :Oxford Industrial Park Unit 7.8 Mead
<ul><li>(32) Priority Date</li><li>(33) Name of priority country</li></ul>	:12/06/2015	Road Yarnton Oxfordshire OX5 1QU U.K.
<ul> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> <li>(87) International Publication</li> </ul>	:PCT/GB2016/051744 :10/06/2016 :WO 2016/198898	1)ROBINSON Anna 2)CASE Christopher 3)KIRK Daniel 4)CROSSLAND Edward 5)WATTS Jim
(61) Patent of Addition to Application Number Filing Date	:NA :NA	5)WATTS JIM 6)BEAUMONT Nicola 7)BUTLER Phillip 8)HOOPER Stewart
(62) Divisional to Application Number Filing Date	NA NA	

(57) Abstract :

There is provided a multi junction photovoltaic device (100) comprising a first sub cell (110) disposed over a second sub cell (120) the first sub cell comprising a photoactive region comprising a layer of perovskite material and the second sub cell comprising a silicon heterojunction (SHJ).

No. of Pages : 42 No. of Claims : 32

#### (19) INDIA

(22) Date of filing of Application :21/12/2017

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : PHOTOVOLTAIC DEVICE

<ul> <li>(51) International</li> <li>classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> </ul>	:H01L51/44,C01G21/00,H01L27/30 :1510349.2 :12/06/2015 :U.K. :PCT/GB2016/051728	<ul> <li>(71)Name of Applicant :</li> <li>1)OXFORD PHOTOVOLTAICS LIMITED Address of Applicant :Oxford Industrial Park Unit 7 8 Mead Road Yarnton Oxfordshire OX5 1QU U.K.</li> <li>(72)Name of Inventor :</li> <li>1)KAMINO Brett Akira</li> <li>2)DEDE7 Lourse Minords</li> </ul>
Filing Date	:10/06/2016	2)PEREZ Laura Miranda
(87) International Publication No	:WO 2016/198889	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	n:NA :NA	

(57) Abstract :

There is provided a photovoltaic device that comprises a photoactive region the photoactive region comprising a perovskite material of general formula A1 xAxBX3 yXy wherein A is a formamidinium cation(HC(NH)2)2+) A is a caesium cation (Cs+)B is at least one divalent inorganic cation X is iodide and X is bromide and x is greater than 0 and equal to or less than 0.4 and y is greater than 0 and less than or equal to 3. There is also provided a method of producing a photovoltaic device comprising a photoactive region comprising the perovskite material and formulations for use in the formation of the perovskite material.



No. of Pages : 46 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(21) Application No.201717046121 A

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : HYDROPHILIC LINKERS FOR CONJUGATION

<ul><li>(51) International</li><li>classification</li><li>(31) Priority Document No</li></ul>	:C07F9/6558,A61K38/05,A61K47/48 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)HANGZHOU DAC BIOTECH CO. LTD Address of Applicant :Building 12 ZhengTaiZhongZi</li> </ul>
(32) Priority Date	:NA	Technology Park No. 260 Sixth Street HEDA Hangzhou City
(33) Name of priority country	:NA	Zhejiang Province 310018 China (72) <b>Name of Inventor :</b>
(86) International Application No Filing Date	:PCT/IB2015/054521 :15/06/2015	1)ZHAO Robert Yongxin
(87) International Publication No	:WO 2015/151078	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

Cell binding agent drug conjugates comprising hydrophilic linkers and methods of using such linkers and conjugates are provided.



No. of Pages : 67 No. of Claims : 31

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A STABLE LIQUID FORMULATION OF FUSION PROTEIN WITH IGG FC DOMAIN (51) International classification (71)Name of Applicant : :A61K47/18 (31) Priority Document No **1)ALTEOGEN, INC** :10-2015-0089186 (32) Priority Date Address of Applicant :62, YUSEONG-DAERO 162 BEON-:23/06/2015 (33) Name of priority country GIL. YUSEONG-GU DAEJEON 34054. REPUBLIC OF :Republic of Korea (86) International Application No :PCT/KR2016/006679 KOREA Republic of Korea (72)Name of Inventor: Filing Date :23/06/2016 (87) International Publication No 1)PARK, SOON JAE :WO/2016/208989 (61) Patent of Addition to Application 2)CHUNG, HYE SHIN :NA Number 3)KIM, JUN YOUNG :NA Filing Date (62) Divisional to Application Number :NA Filing Date :NA

#### (57) Abstract :

The present invention relates to a stable liquid formulation of a fusion protein having an Fc domain of a human immunoglobulin G (IgG) (in particular, a protein in which an Fc domain of a human immunoglobulin G (IgG) and a soluble extracellular domain of a vascular endothelial growth factor (VEGF) receptor are fused (e.g., aflibercept)). Further, the present invention relates to a composition for stabilizing a protein in which an Fc domain of an IgG and a soluble extracellular domain of a VEGF receptor are fused, and to a method for stabilizing a protein in which an Fc domain of an IgG and a soluble extracellular domain of a VEGF receptor are fused. The present invention improves therapeutic effects on various ophthalmic diseases (e.g., retinal vein occlusion, diabetic macular edema, choroidal neovascularization and wet age-related macular degeneration, etc.) caused by abnormal angiogenesis, while pursuing stabilization of bioactivity through a stable liquid formulation suitable for intravitreal injection of an anti-VEGF-Fc fusion protein including aflibercept.

No. of Pages : 25 No. of Claims : 14

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHODS AND APPARATUSES FOR MONITORING A RADIO LINK

(51) International classification	:H04W76/04	(71)Name of Applicant :
(31) Priority Document No	:NA	1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(32) Priority Date	:NA	Address of Applicant :SE 164 83 Stockholm Sweden
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:PCT/EP2015/062861	1)YILMAZ Osman Nuri Can
Filing Date	:09/06/2015	2)HGLUND Andreas
(87) International Publication No	:WO 2016/198098	3)WAGER Stefan
(61) Patent of Addition to Application	٠NIA	
Number		
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for monitoring a radio link between a base station (B1 B4 BN) and a terminal (100) in a wireless communication system comprising adapting (S302) at least one parameter used in monitoring said radio link based on a duration of an inactive phase in which the terminal (100) is not transmitting to and/or receiving data from the base station (B1 B4 BN) via the radio link.



No. of Pages : 27 No. of Claims : 41

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:A61M16/00 :62/183902 :24/06/2015 :U.S.A. :PCT/US2016/039440 :24/06/2016 :WO 2016/210382 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ol> <li>SALVINO Chris</li> <li>Address of Applicant :7694 E Rose Garden Lane Scottsdale</li> </ol> </li> <li>AZ 85255 U.S.A. <ol> <li>WHITE Scott</li> </ol> </li> <li>(72)Name of Inventor : <ol> <li>SALVINO Chris</li> <li>WHITE Scott</li> </ol> </li> </ul>
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#### (54) Title of the invention : OXYGEN BIOFEEDBACK DEVICE AND METHODS

(57) Abstract :

Supplemental oxygen is used by millions of people each year in hospitals and at home. The device and methods described allow people on supplemental oxygen through a feedback loop to optimize their blood oxygen level by measuring oxygen and/or carbon dioxide and/or other related gases in the blood. Because the device and methods optimize the level of supplemental oxygen and/or carbon dioxide and/or other related gases complications (from too much or too little oxygen and/or carbon dioxide) including death can be prevented. In addition users can reduce their costs by reducing the amount of oxygen needed as well as labor costs. Additionally helicopters ambulance and mobile surgical sites can reduce weight in critical situations. In addition the device and methods described also allow patients on ventilators through a feedback loop to optimize ventilation by measuring carbon dioxide in the blood; which can reduce complications and reduce labor costs. Finally the device and methods provides a warning system when the oxygen supply is compromised has or is exhausted.

No. of Pages : 31 No. of Claims : 17

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : RESIN MOLDED ARTICLE AND METHOD FOR MANUFACTURING RESIN MOLDED ARTICLE			
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:B29C45/37 :2015125349 :23/06/2015 :Japan :PCT/JP2016/066493 :02/06/2016 :WO 2016/208355 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)KOITO MANUFACTURING CO. LTD. Address of Applicant :8 3 Takanawa 4 chome Minato ku Tokyo 1088711 Japan</li> <li>(72)Name of Inventor :</li> <li>1)WATANABE Akira</li> <li>2)KOHATA Takahiro</li> <li>3)IKEDA Toshimasa</li> </ul>	

(57) Abstract :

A resin molded article (10) is provided with: a resin molded article body (11); and a protrusion (12) formed integrally with the resin molded article body (11) and protruding from the resin molded article body (11). In injection molding of the resin molded article (10) molten resin flows through a part (C 1) corresponding to the protrusion (12) of a cavity (C) defined by a pair of molds (20 30). A concave part (14) is formed on the rear surface side of the protrusion (12) and a hollow bag shaped bulging part (12a) is formed on the front surface side of the protrusion (12).

FIG.1



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

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:A61J1/14,A61J1/20 :15168952.8 :22/05/2015 :EPO :PCT/EP2016/061582 :23/05/2016 :WO 2016/188957 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)FRESENIUS KABI DEUTSCHLAND GMBH Address of Applicant :Else Krner Strasse 1 61352 Bad Homburg Germany</li> <li>(72)Name of Inventor :</li> <li>1)BRANDENBURGER Torsten</li> </ul>
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#### (54) Title of the invention : CONNECTION ASSEMBLY FOR CONDUCTING A MEDICAL LIQUID

#### (57) Abstract :

The invention relates to a connection assembly for conducting a medical liquid comprising a connection piece (11) through which a medical liquid can be pumped; an attachment part (2) which can be attached to the connection piece (11) and which can be connected to a pump device (5) for pumping a medical liquid through the connection piece; an opening (210) into which the connection piece (11) engages when the attachment part (2) is attached to the connection piece (11); and a seal element (4) for sealing a passage between the connection piece (11 12) and the attachment part (2). The seal element (4) can be inserted into the opening (210) of the attachment part (2) in an insert direction (E) such that the seal element (4) is held between the attachment part (2) and the connection piece (11) when the attachment part (2) is attached to the connection piece (11). The seal element (4) has a sealing head (40) which closes the opening (210) of the attachment part (2) against the passage of liquid when the attachment part (2) is attached to the connection piece (11) and a body (42) which adjoins the sealing head (40) and which can be arranged in the opening (210) at a radial distance to the attachment part (2). The interior of the seal element (4) is free of a tipped body which should aid the opening process of the sealing head (40). The seal element (4) has a shoulder (410) which projects beyond the sealing head (40) radially to the insert direction (E) and which can be brought into contact with a paired contact surface (212) within the opening (210) of the attachment part (2) along the insert direction (E) at the transition between the sealing head (40) and the body (42); a flange (420) which is arranged at a distance from the shoulder (410) along the insert direction (E) projects radially outwards with respect to the body (42) of the seal element (4) and is held between the attachment part (2) and the connection piece (11) when the attachment part (2) is attached to the connection piece (11) such that the lower face (422) of the flange (420) rests on a support surface (114) of the connection piece (11) and the upper face (421) of the flange is at least partly exposed; and a foot portion (43) which engages into a paired recess (113) in the connection piece (11) when the attachment part (2) is attached to the connection piece (11). In this manner a medical liquid conducting connection assembly can be provided which allows a reliable hold of the seal element between the connection piece and the attachment part.

No. of Pages : 19 No. of Claims : 18

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : LOGIN METHOD AND DEVICE FOR ACCOUNT NUMBER REPORTED FOR LOSS (51) International classification :H04L29/06 (71)Name of Applicant : 1)ALIBABA GROUP HOLDING LIMITED (31) Priority Document No :201510379975.4 (32) Priority Date Address of Applicant :Fourth Floor One Capital Place P.O. :01/07/2015 (33) Name of priority country Box 847 George Town Grand Cayman Cayman Island :China :PCT/CN2016/086865 (72)Name of Inventor : (86) International Application No Filing Date :23/06/2016 1)QIAN Jianbo (87) International Publication No :WO 2017/000826 (61) Patent of Addition to Application :NA Number :NA Filing Date (62) Divisional to Application Number :NA Filing Date :NA

(57) Abstract :

Disclosed are a login method and device for an account number reported for loss which can log in on a network server with the account number reported for loss. By means of the present application by logging in with an account number reported for loss on a network server through an operation code associated with the account number reported for loss it is achieved that within a processing period of cancelling the report of loss of the account number reported for loss a user can still continue to use the account number thereof and corresponding network services thereby guaranteeing that the network life of the user is not affected.

No. of Pages : 23 No. of Claims : 26

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : SPENT CATALYST STANDPIPES

(51) International classification	:C10G11/18,B01J8/18,B01J8/00	(71)Name of Applicant :
(31) Priority Document No	:62/187286	1)SHELL INTERNATIONALE RESEARCH
(32) Priority Date	:01/07/2015	MAATSCHAPPIJ B.V.
(33) Name of priority country	:U.S.A.	Address of Applicant : Carel van Bylandtlaan 30 NL 2596 The
(86) International Application No	:PCT/US2016/039727	Hague Netherlands
Filing Date	:28/06/2016	(72)Name of Inventor :
(87) International Publication No	:WO 2017/003991	1)CARROLL Cian Seamus
(61) Patent of Addition to	:NA	
Filing Date	:NA	
(62) Divisional to Application	:NA	
Number Filing Date	:NA	

#### (57) Abstract :

A catalyst standpipe comprising a horizontal section a sloped section and vertical section wherein the vertical section comprises one or more ring portions and associated methods and systems.

No. of Pages : 13 No. of Claims : 20

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : BIOMASS CONVERSION PROCESS USING AMORPHOUS SILICA ALUMINA TO OBTAIN A MONOOXYGENATED STREAM

#### (57) Abstract :

A process for the production of a higher hydrocarbon useful to produce diesel components from solid biomass is provided. The process provides for improved production of diesel components by contacting the stable oxygenated hydrocarbon intermediate containing diols produced from digestion and hydrodoxygenation of the solid biomass to an amorphous silica alumina catalyst to reduce the diols content and removing water prior to contacting with the condensation catalyst to produce the higher hydrocarbon.

No. of Pages : 25 No. of Claims : 8
(21) Application No.201717046376 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : METHOD FOR CHECKING SECURITY BASED ON BIOLOGICAL FEATURES CLIENT AND SERVER

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> </ul>	:H04L29/06 :201510394393.3 :02/07/2015 :China :PCT/CN2016/086868 :23/06/2016 :WO 2017/000829 :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ALIBABA GROUP HOLDING LIMITED Address of Applicant :Fourth Floor One Capital Place P.O. Box 847 George Town Grand Cayman Cayman Island</li> <li>(72)Name of Inventor :</li> <li>1)LIN Junsui</li> </ul>
Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

Disclosed are a method for checking security based on biological features a client and a server. The method comprises: a client sending an authentication request; after a server end receives the authentication request returning an authentication request response message; the client receiving a fingerprint image for checking input by a user acquiring a corresponding biological feature template ID comparing same with a biological feature template ID in a starting record locally saved so as to generate an authentication response message including the acquired biological feature template ID and sending the authentication response message to the server end; the server end receiving the authentication response message and comparing same with a biological feature template ID in a corresponding user record locally saved in the server end if matching passing a check otherwise reporting an error. Also proposed at the same time are a client and a server corresponding to the method. The present invention can prevent the transmission of individual biological features on the network can prevent the risk of revelation and can reduce the network traffic of network transmission at the same time thereby having higher security.

No. of Pages : 29 No. of Claims : 36

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : COUPLING ASSEMBLY WITH WATERTIGHT FEATURE FOR SECURING CONDUITS TOGETHER

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No</li> <li>(87) International Publication</li> <li>No</li> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to Application</li> </ul>	:F16L9/22,F16L19/04,H01R13/52 :14/723741 :28/05/2015 :U.S.A. :PCT/US2016/034727 :27/05/2016 :WO 2016/191714 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)ATKORE STEEL COMPONENTS INC. Address of Applicant :4701 Johnson Road Coconut Creek FL</li> <li>33073 4316 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)SHEMTOV Sami</li> </ul>
Number Filing Date	:NA :NA	

(57) Abstract :

A coupling assembly for securing two conduits together includes a coupling sleeve a compression nut and a stop seal ring. The coupling sleeve includes an outwardly protruding stop flange and the stop seal ring fits over the coupling sleeve without sliding past the stop flange. The coupling sleeve enters an expanded end of a first conduit until the stop seal ring is squeezed by the stop flange and the conduit. The conduit sleeve is crimped with the first conduit and the nut with a compression ring therein is screwed onto the conduit sleeve. A second conduit is inserted into the nut and the conduit sleeve and tightening the nut compresses the compression ring to grip and secure the second conduit. With the stop seal ring squeezed between the stop flange and the first conduit the coupling assembly protects against rain or other liquids from entering the conduits.

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

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

### (54) Title of the invention : GAS PROPELLED AUTOINJECTOR WITH GAS FLOW REGULATOR

5,A61M5/168,A61M5/20 16/037677 205403	<ul> <li>(71)Name of Applicant :</li> <li>1)NUANCE DESIGNS OF CT LLC Address of Applicant :1764 Litchfield Turnpike Suite 202</li> <li>Woodbridge CT 06525 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)GUILLERMO Carlos</li> <li>2)DESALVO David</li> </ul>
	5,A61M5/168,A61M5/20 16/037677 205403

(57) Abstract :

An autoinjector that includes a canister having a liquefied gas a flow regulator and an actuator is provided. The flow regulator engages the canister to receive a flow of gas generated by the liquefied gas. The actuator is coupled to the canister and the flow regulator and includes a passageway for receiving the flow of gas downstream from the flow regulator. The actuator moves relative to the canister between an engaged position whereby the flow regulator is in fluid communication with the canister for receiving the flow of gas and a storage position whereby the flow regulator is spaced from the canister.

No. of Pages : 40 No. of Claims : 20

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:A61B18/24,A61B1/313	(71)Name of Applicant :
(31) Priority Document No	:2015901911	1)LAZCATH PTY LTD
(32) Priority Date	:25/05/2015	Address of Applicant :138 Glyde Street Mosman Park Western
(33) Name of priority country	:Australia	Australia 6012 Australia
(86) International Application No	:PCT/AU2016/050403	(72)Name of Inventor :
Filing Date	:25/05/2016	1)PRATTEN Peter
(87) International Publication No	:WO 2016/187664	2)WEERASOORIYA Rukshen
(61) Patent of Addition to Application	٠NA	3)ALAMEH Kamal
Number	·NA	
Filing Date	.11A	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(54) Title of the invention : CATHETER SYSTEM AND METHOD OF ABLATING A TISSUE

#### (57) Abstract :

A catheter system for ablating a tissue portion of a body and visualising the ablation in real time the system comprising a means for generating an optical imaging beam a catheter including a catheter tip assembly comprising an array of first optical fibres for carrying the optical imaging beam and an ablating means wherein the catheter tip assembly is adapted to direct said beam onto the tissue portion and capture a reflected portion of the optical imaging beam from the tissue portion. The system further includes a first switching means for switching the optical imaging beam between a plurality of the first optical fibres in the array and a means for processing the reflected portion of the optical imaging beam to account for variations in length between the first optical fibres.

No. of Pages : 48 No. of Claims : 23

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ISOCYANATE FREE REACTIVE POLYURETHANE COMPOSITIONS

(57) Abstract :

The invention relates to isocyanate free polyurethane compositions for adhesives sealants and coatings.

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

(21) Application No.201717046400 A

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ELECTROPORATION SYSTEM FOR CONTROLLED LOCALIZED THERAPEUTICS DELIVERY :A61N1/32,A61N1/05 (71)Name of Applicant : (51) International classification 1)NEWSOUTH INNOVATIONS PTY LIMITED (31) Priority Document No :2015902456 (32) Priority Date Address of Applicant : Rupert Myers Building Level 2 Gate 14 :25/06/2015 (33) Name of priority country Barker Street Sydney New South Wales 2052 Australia :Australia :PCT/AU2016/050546 (72)Name of Inventor : (86) International Application No Filing Date :24/06/2016 **1)HOUSLEY Gary David** (87) International Publication No :WO 2016/205895 2)LOVELL Nigel Hamilton (61) Patent of Addition to Application **3)PINYON Jeremy** :NA Number 4)CRAWFORD Edward Norman :NA Filing Date **5)BROWNE Cherylea** (62) Divisional to Application Number :NA Filing Date :NA

#### (57) Abstract :

Embodiments of the present invention provide an electroporation system comprising an electroporation probe having at least two contiguous electrodes configured to be inserted into biological tissue for electroporation treatment and a pulse generator electrically connected to the probe and configured to drive the electroporation probe using a sequence of one or more electric pulses to cause current transmission through the probe and induce a non uniform electric field in the biological tissue proximate the probe electrodes. Treatment tissue can be targeted by controlling the probe configuration carrier solution characteristics and parameters of the electroporation pulse sequence to achieve predictable electroporation outcomes. This electroporation control method can also reduce potentially toxic effects of electroporation treatment.

No. of Pages : 47 No. of Claims : 19

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PROTECTING STATE INFORMATION FOR VIRTUAL MACHINES

<ul> <li>(51) International</li> <li>classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> </ul>	:G06F21/53,G06F9/455,G06F21/60 :14/748883 :24/06/2015 :U.S.A. :PCT/US2016/038694	<ul> <li>(71)Name of Applicant :</li> <li>1)ADVANCED MICRO DEVICES INC. Address of Applicant :One AMD Place Sunnyvale California</li> <li>94088 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)KAPLAN David</li> </ul>
No Filing Date	:22/06/2016	2)VAN DOOM Leendert 3)SCHIFFMAN Joshua
(87) International Publication No	:WO 2016/209915	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A processing system [100] includes a processor [102] that implements registers [115 116] to define a state of a virtual machine (VM) [200] running on the processor. The processor detects exit conditions [605] of the VM. The processing system also includes a memory element [103] to store contents of the registers in a first data structure [120] that is isolated from a hypervisor [202] of the VM in response to the processor detecting an exit condition. The VM is to selectively expose [625] contents of a subset of the registers to the hypervisor.



No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(21) Application No.201717046407 A

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ARTICLES FORMED WITH BIODEGRADABLE MATERIALS

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> </ul>	:C08L3/00,C08L3/02,C08L23/00 :62/187231 :30/06/2015 :U.S.A. :PCT/US2016/040104 :29/06/2016 o:WO 2017/004210 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)BIOLOGIQ INC Address of Applicant :2400 East 25th Street Idaho Falls ID</li> <li>83404 U.S.A.</li> <li>(72)Name of Inventor :</li> <li>1)LAPRAY Bradford</li> <li>2)QUAN Wenji</li> </ul>
Filing Date (62) Divisional to Application Number Filing Date	:NA :NA	

#### (57) Abstract :

Described herein are strength characteristics and biodegradation of articles produced using one or more petrochemical based polymers and one or more carbohydrate based polymers. A compatibilizer can optionally be included in the article. In some cases the article can include a film or bag.



#### FIG. 1

No. of Pages : 56 No. of Claims : 15

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : ROTARY ELECTRIC MACHINE HAVING A TURBINE HAVING INCREASED NEGATIVE PRESSURE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application</li> <li>Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number <ul> <li>Filing Date</li> </ul> </li> </ul>	:H02K9/06 :1556256 :02/07/2015 :France :PCT/EP2016/065537 :01/07/2016 :WO 2017/001671 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)MOTEURS LEROY SOMER Address of Applicant :Boulevard Marcellin Leroy CS 10015 16915 Angoulme Cedex 9 France (72)Name of Inventor : 1)ZAHRADSKY Vit 2)DUTAU Alexis</li></ul>
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(57) Abstract :

The present invention relates to a rotary electric machine that comprises a rotor and a stator and is cooled by a stream of air generated by at least one fan the fan being driven by a main shaft of the machine or by its own drive system said fan comprising main blades (33) for generating a stream of cooling air and upstream of said main blades fins which at least partially cover coil heads of the stator in the axial direction.

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

## (12) PATENT APPLICATION PUBLICATION (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SURFACE TREATMENT AGENT SURFACE TREATMENT METHOD AND SURFACE TREATED METAL MATERIAL

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(2015132484</li> <li>(32) Priority Date</li> <li>(01/07/2015</li> <li>(33) Name of priority country :Japan</li> <li>(86) International Application No</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Filing Date</li> <li>(62) Divisional to Application Number</li> <li>(71) Patent of Application Filing Date</li> <li>(72) Divisional to Application Number</li> <li>(72) Divisional to Application Number</li> <li>(73) NA</li> </ul>	<ul> <li>(71)Name of Applicant :</li> <li>1)NIHON PARKERIZING CO. LTD. Address of Applicant :15 1 Nihonbashi 1 chome Chuo ku Tokyo 1030027 Japan</li> <li>(72)Name of Inventor :</li> <li>1)AZUMA Takeru</li> <li>2)MORIYAMA Atsushi</li> <li>3)ARA Masayasu</li> </ul>
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#### (57) Abstract :

The present invention addresses the problem of providing the following: a surface treatment agent which is chromate free and which can impart excellent coating adhesion and corrosion resistance to a metal material (in particular a metal material treated with a phosphate); a surface treatment method that uses the surface treatment agent; and a surface treated metal material that is surface treated using the surface treatment method. This surface treatment agent is a surface treatment agent for a metal material and contains a water soluble ethylene glycol monoalkyl ether. Furthermore it is preferable for this surface treatment agent to contain at least one type of metal compound selected from among a water soluble vanadium compound a water soluble titanium compound a water soluble zirconium compound and a water soluble hafnium compound.

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

#### (19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SUBSCRIPTION MANAGEMENT COMPRISING SUBSCRIPTION SPECIFIC PROFILES FOR **RESTRICTING THE FUNCTIONALITIES OF THE SECURITY ELEMENT**

(51) International classification	:G06F21/62,H04W4/00,H04W8/18	(71)Name of Applicant : 1)GIESECKE+DEVRIENT MOBILE SECURITY GMBH
(31) Priority Document No	:10 2015 008 117.9	Address of Applicant : Prinzregentenstrasse 159 81677
(32) Priority Date	:23/06/2015	Mnchen Germany
(33) Name of priority country	:Germany	(72)Name of Inventor :
(86) International Application No Filing Date	:PCT/EP2016/001065 :22/06/2016	1)NITSCH Nils 2)SCHNELLINGER Michael
(87) International Publication No	:WO 2016/206806	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

### (57) Abstract :

The invention relates to a method and to a system for subscription management in a security element for a mobile terminal. Here each subscription is assigned a subscription profile. For a subscription profile access to functionalities of the security element is restricted in a subscription profile specific manner (S3).

No. of Pages : 8 No. of Claims : 14

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SYSTEMS AND METHODS FOR AGGREGATING ASSET VULNERABILITIES (51) International classification :H04L29/06 (71)Name of Applicant : 1)VERACODE INC. (31) Priority Document No :14/747291 (32) Priority Date Address of Applicant :65 Network Drive Burlington MA :23/06/2015 (33) Name of priority country :U.S.A. 01803 U.S.A. (86) International Application No :PCT/US2016/038103 (72)Name of Inventor : Filing Date :17/06/2016 1)FLOERING Michael (87) International Publication No :WO 2016/209729 (61) Patent of Addition to Application :NA Number :NA Filing Date (62) Divisional to Application Number :NA Filing Date :NA

(57) Abstract :

In a system for determining vulnerabilities associated with a web property a network accessible server associated with the property is identified. One or more software components/subsystems associated with that server and optionally one or more versions of that component/subsystem are identified. For the identified components and versions thereof vulnerability information is obtained from a database and compiled to determine vulnerability of the web property without requiring access to any code of the software components/subsystems.

No. of Pages : 14 No. of Claims : 30

(19) INDIA

(22) Date of filing of Application :22/12/2017

(43) Publication Date : 09/02/2018

(54) Title of the invention : WATERJET PROPULSION SYSTEM AND WATERCRAFT HAVING A WATERJET PROPULSION SYSTEM

<ul><li>(51) International classification</li><li>(31) Priority Document No</li><li>(32) Priority Date</li><li>(33) Name of priority country</li></ul>	:B63H11/08,F04D3/02,F04D29/22 :A 333/2015 :27/05/2015 :Austria	<ul> <li>(71)Name of Applicant :</li> <li>1)DESCH Andreas Address of Applicant :Kranzlweg 3 4755 Zell an der Pram Austria</li> </ul>
<ul> <li>(86) International Application</li> <li>No</li> <li>Filing Date</li> <li>(87) International Publication</li> </ul>	:PCT/AT2016/000058 :27/05/2016	(72)Name of Inventor : 1)DESCH Andreas
No	:WO 2016/187627	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The invention relates to a waterjet propulsion system (1) for a watercraft comprising an intake region (2) an impeller region (3) which adjoins the intake region and in which a one stage impeller (4) is mounted and an outlet nozzle (5) which adjoins the impeller region the waterjet propulsion system having a drive motor (6) which is at least indirectly connected to an impeller driveshaft (7) of the impeller (4). According to the invention the impeller has only one single blade (8).



No. of Pages : 15 No. of Claims : 23

#### (19) INDIA

(22) Date of filing of Application :07/08/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : IMPROVEMENTS RELATING TO BICYCLE TRANSMISSIONS (51) International classification :B60R16/04 (71)Name of Applicant : 1)Freeflow Technologies Limited (31) Priority Document No :GB1613598.0 (32) Priority Date Address of Applicant :1 West Regent Street Glasgow G2 :08/08/2016 (33) Name of priority country 1RW, United Kingdom U.K. :U.K. (72)Name of Inventor : (86) International Application No :NA Filing Date :NA 1)EDWARDS, Neil (87) International Publication No : NA 2)MACMARTIN, Neil (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 generally to gearing transmission systems, especially those used in bicycles, but may be used in other vehicle and non-vehicle applications. More specifically a freewheel mechanism for a bicycle is disclosed, comprising a bottom bracket axle, the bottom bracket axle having or being able to receive one or more crank arms, and a chain-ring or chain-ring mount, wherein there is provided a one-way bearing between the axle and the chain-ring or chain-ring mount.



No. of Pages : 44 No. of Claims : 14

#### (19) INDIA

(22) Date of filing of Application :08/08/2017

(43) Publication Date : 09/02/2018

## (54) Title of the invention : METHOD TO RECOGNIZE THE OCCURRENCE OF MISFIRE PHENOMENA IN THE CYLINDERS OF AN INTERNAL COMBUSTION ENGINE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:F01K15/00 :102016000083426 :08/08/2016 :Italy :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)MAGNETI MARELLI S.p.A. Address of Applicant :20011 CORBETTA, Viale Aldo Borletti, 61/63, Italy Italy</li> <li>(72)Name of Inventor :</li> <li>1)Matteo DE CESARE</li> <li>2)Envice REUCNONI</li> </ul>
<ul> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA :NA	2)EIIFICO BRUGNONI 3)Luigi PAIANO 4)Federico MONTI

#### (57) Abstract :

A method to recognize the occurrence of misfire phenomena in an internal combustion engine (1) provided with at least one cylinder (3), which is connected to an exhaust manifold (7) by means of an exhaust pipe (8), which is regulated by an exhaust valve (9); and a sound sensor (21), which is arranged in the area of the exhaust pipe (8); the method comprising determining a detection window, expressed in degrees of engine angle, for the cylinder (3); estimating, with every combustion cycle, the value of an index (SMIi) of successful combustion for the cylinder (3) through the contribution of the sound signal generated by the opening of the exhaust valve (9) in the respective detection window; and recognizing the occurrence of misfire phenomena for the cylinder (3) depending on the comparison between a threshold value (THR) and the index (SMIi) of successful combustion. Main figure: Figure 4



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

(22) Date of filing of Application :17/03/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : COMPOSITION FOR PREVENTING OR TREATING LIVER CANCER CONTAINING **GINSENOSIDE F2**

:A61K31/7028	(71)Name of Applicant :
:10-2016- 0099978	1)INTELLIGENT SYNTHETIC BIOLOGY CENTER Address of Applicant :401ho, 291 Daehak-ro, Yuseong-gu,
:05/08/2016	Daejeon 34141, Republic of Korea Republic of Korea
:Republic of Korea	(72)Name of Inventor : 1)JEONG, Won II
:NA	2)KIM, Myung Ho
:NA	3)JEONG, Jong Min
: NA	4)KIM, So Yeon
:NA	5)KIM, Sun Chang
:NA	
:NA	
:NA	
	:A61K31/7028 :10-2016- 0099978 :05/08/2016 :Republic of Korea :NA :NA :NA :NA :NA :NA :NA :NA

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#### (57) Abstract :

The present invention relates to a composition for preventing or treating liver cancer containing ginsenoside F2 as an active ingredient. Specifically, the composition according to the present invention kills liver cancer cells, specifically inhibits the formation of liver cancer, and reduces the expression of alanine aminotransferase (ALT) or aspartate aminotransferase (AST), without affecting normal hepatocytes, and thus can be usefully used as a therapeutic agent for liver cancer.

[FIG. 1a]



No. of Pages : 37 No. of Claims : 7

#### (19) INDIA

(22) Date of filing of Application :15/03/2016

(43) Publication Date : 09/02/2018

(51) International classification	:B65D5/42	(71)Name of Applicant :
(31) Priority Document No	:201510920618.4	1)HON HAI PRECISION INDUSTRY CO., LTD.
(32) Priority Date	:14/12/2015	Address of Applicant :66, Chung Shan Road, Tu-Cheng Dist.
(33) Name of priority country	:China	Taiwan
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)CHIN-HUI CHEN
(87) International Publication No	: NA	2)CHIA-YUN LEE
(61) Patent of Addition to Application Number	:NA	3)CHENG-HSIU YANG
Filing Date	:NA	4)YUEH-LIN TSAI
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : CARGO CONTAINER WITH BUILT-IN LIFTING MEMBER

(57) Abstract :

A cargo container with strong and structurally supportive but unobtrusive built-in carrying handles cargo container includes a case, a cover, a positioning member mounted on the case, and the carrying handles lifting member. The carrying handles lifting member can slide up and down and a first lock opening and a second lock opening are defined. When the carrying handle lifting member is in a first position, the first lock opening engages the carrying handle in a retracted state lifting member. When the carrying handle lifting member is at a second lock opening engages and locks the carrying handle while lifting member extended out of the cover.

10.001 10

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

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : PROCESS FOR PRODUCTION, AND ISOLATION OF RECOMBINANT HUMAN SERUM ALBUMIN IN E. COLI

(51) International classification	:C07C31/02	(71)Name of Applicant :
(31) Priority Document No	:NA	1)INDIAN INSTITUTE OF TECHNOLOGY, DELHI
(32) Priority Date	:NA	Address of Applicant :Hauz Khas, New Delhi - 110 016, India
(33) Name of priority country	:NA	Delhi India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)CHAUDHURI, Tapan Kumar
(87) International Publication No	: NA	2)SHARMA, Ashima
(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 process for production and extraction of recombinant human serum albumin (rHSA) using E.coli as a host system. The process of the instant disclosure provides enhanced recovery of soluble and functional rHSA over conventional known methods.



No. of Pages : 32 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :10/11/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : MATTRESS WITH ADJUSTABLE HARDNESS AND COMFORT LEVELS :B60K28/06 (71)Name of Applicant : (51) International classification 1)PT Massindo International (31) Priority Document No :S00201605162 (32) Priority Date Address of Applicant :Perum Taman Kebon Jeruk Blok A III :05/08/2016 (33) Name of priority country No. 1, Jl. Meruya Ilir Rt. 004, Rw. 007 Kembangan, Jakarta Barat :Indonesia 11650 (ID) Indonesia (86) International Application No :NA (72)Name of Inventor: Filing Date :NA (87) International Publication No : NA 1)KHO, Silvia (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA

(57) Abstract :

A mattress with adjustable hardness and comfort levels includes a surface cover layer, a first comfort layer, a second comfort layer and a hollow space made of foam at the bottom. This mattress also provides the flexibility for consumers to change the first and second comfort layers in the mattress to achieve the most appropriate hardness level according to his body profile independently for the users on the left and right sides of the mattress. Thus, consumers may change the hardness and comfort levels of their mattress easily by changing the comfort layers according to their desires anytime.

No. of Pages : 10 No. of Claims : 5

#### (19) INDIA

(22) Date of filing of Application :15/07/2016

(43) Publication Date : 09/02/2018

## (54) Title of the invention : A METHOD AND SYSTEM OF SMART DATA MAPPING FOR SMART ELECTRIC METER

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:B60L11/18 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)SUMERU VERDE TECHNOLOGIES PVT. LTD. Address of Applicant :A-51, Sector-67, Noida, UP, 201301</li> <li>India Uttar Pradesh India</li> <li>(72)Name of Inventor :</li> <li>1)Subhasis Ojha</li> </ul>
(87) International Publication No	: NA	2)Prithvi Pal Singh
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a method and system of smart data mapping for smart electric meter. More particularly, this invention relates to smart data mapping by effective memory space utilization in order to improve the overall system performance. The present invention provides a system and method that provide an efficient utilization of physical memory space with different data sets using same application program in a smart meter. The present invention provides an efficient utilization of physical memory, considers the number of electrical parameters and their data size along with number of days in each data set. This gives flexibility in re-allocation of physical memory requirements in each data set. Figure 1 on Sheet 1 of the drawings may accompany the abstract when published.

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

#### (19) INDIA

(22) Date of filing of Application :25/05/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : USER LEVEL ASSESSMENT BASED REAL-TIME SUBMISSION AND MANAGEMENT OF INVESTMENT OPTIONS

2 (71)Name of Applicant :
1)SINGHANIA, Rajiev Raj
Address of Applicant :Shashi Kunj, A50/134, Anand Nagar,
Raebareli- 229001, Uttar Pradesh, India. Uttar Pradesh India
(72)Name of Inventor :
1)SINGHANIA, Rajiev Raj

#### (57) Abstract :

A system and method for evaluating user knowledge/skill/level and proposing, in real-time, one or more investment options to the user based on the evaluated knowledge/skill/level in a manner such that, using at least one of said proposed investment options, minimum returns to the user can be ensured is disclosed. A system (also referred to as investment options recommendation engine •) for enabling investments based on evolving knowledge/competence of users, wherein the system is configured to evaluate knowledge level (also referred to as knowledge •, or skill • or level • or awareness •) of the user regarding investments based on assessment of user input comprising of current financial portfolio (if any) and response of questions posted to the user. Further, the system is configured to, in real-time, determine and subsequently recommend one or more investment options for the user from a plurality of stored investment options based on the assessed/evaluated/measured knowledge level of the user.



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

#### (19) INDIA

(22) Date of filing of Application :26/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : METHOD FOR CONTROLLING CORROSION AND MICROBIAL GROWTH IN WATER COOLED SYSTEM

(51) International classification :C02F1/50	((1)Name of Applicant :
(31) Priority Document No :NA	1)CLEANFLO INDIA PVT. LTD.
(32) Priority Date :NA	Address of Applicant :403, Gupta Tower, Commercial
(33) Name of priority country :NA	Complex, Azadpur, Delhi-110033 Delhi India
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)KUMAR SANJAY SHARMA
(87) International Publication No : NA	2)SHWETA SHARMA
(61) Patent of Addition to Application Number :NA	
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

#### (57) Abstract :

A method for controlling corrosion, microbial growth, scaling and fouling in water cooled systems by dispersing Zinc Oxide (ZnO) nanoparticles and Zinc Sulphide (ZnS) nanoparticles in water. The present invention provides a method for controlling corrosion and microbial growth, the steps comprising of: a) dissolving starch in distilled water forming a starch solution; b) adding and stirring Zinc nitrate in the starch solution; c) adding Sodium nitrate solution to starch solution in step b) while stirring constantly to form a mixture; d) leaving the mixture formed in step (c) for at least 2 hour and allowing the mixture to settle; e) discarding supernatant solution of the settled mixture; f) centrifuging the settled mixture obtained in step e) to form nanoparticles; g) washing nanoparticles with distilled water for at least 3 times; h) drying the washed nanoparticles at 80°C for overnight; and i) dispersing the nanoparticles in water.

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

#### (19) INDIA

(22) Date of filing of Application :26/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : AN ADULTERATION	N CHECKING D	DEVICE
<ul> <li>(54) Title of the invention : AN ADULTERATION</li> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	N CHECKING D :B01L3/502 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :         <ol> <li>(71)Name of Applicant :                 <ul> <li>(71)SAVITA CHAURASIA</li></ul></li></ol></li></ul>
<ul> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:NA :NA :NA :NA	

(57) Abstract :

An adulteration checking device, for simultaneous detection of multiple adulterants in milk sample is disclosed. The device comprising a base plate having a milk sample receiving chamber mounted thereon. Plurality of sample conveying arms / pipes, connected with the sample receiving chamber, are provided to facilitate flow of the milk sample to a test chamber provided at other end of the sample conveying pipes. A testing pad is provided in each of the test chambers to facilitate testing of the milk sample. A transparent cover is provided to cover the device except milk receiving chamber. A colour chart is provided at the cover to facilitate identification of the adulterants. In one embodiment substrate is mounted on the base plate to facilitate flow of the milk sample, in the test chambers, due to capillary action.

No. of Pages : 15 No. of Claims : 10

#### (19) INDIA

(22) Date of filing of Application :31/05/2016

(43) Publication Date : 09/02/2018

## (54) Title of the invention : MAGNETIC LIQUID BASED SELF-CHARGING BATTERY AND METHOD OF SELF- CHARGING

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> </ul>	:B03C1/01 :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)CHITKARA UNIVERSITY Address of Applicant :Chandigarh-Patiala National Highway(NH-64) Tehsil Rajpura, Distt. Patiala Punjab, India. </li> <li>Punjab India (72)Name of Inventor :</li></ul>
(87) International Publication No	: NA	1)SALUJA DEEPAK
(61) Patent of Addition to Application Number	:NA	2)JINDAL RITIKA
Filing Date	:NA	3)SHUBHAM
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

A novel self-charging battery using magnetic liquid is developed by the inventors. The said self-charging battery, for energy harvesting consists of ~electrodes<sup>TM</sup>, ~magnet<sup>TM</sup>, and ~magnetic-liquid<sup>TM</sup>. Battery works like an ordinary battery and uses magnets to self-charge. Hence eliminates the need of external charging. Self-charging capability makes it a self -sustainable battery. The battery will do the work of being both the energy harvester and storage element.



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

#### (19) INDIA

(22) Date of filing of Application :01/06/2016

(43) Publication Date : 09/02/2018

(51) International classification :B60T8/0	(71)Name of Applicant :
(31) Priority Document No :NA	1)Hero MotoCorp Limited
(32) Priority Date :NA	Address of Applicant :34, Community Center, Basant Lok,
(33) Name of priority country :NA	Vasant Vihar, New Delhi India 110057 Delhi India
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)Ravi Kaushik
(87) International Publication No : NA	2)Shubham Dubey
(61) Patent of Addition to Application Number :NA	3)Abhishek Mishra
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	
(61) Patent of Addition to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NAFiling Date:NA	3)Abhishek Mishra

#### (54) Title of the invention : INTEGRATED BRAKING SYSTEM FOR VEHICLE

(57) Abstract :

In an embodiment, integrated braking system for two-wheeled vehicle (200) includes front brake device (FBD), rear brake device (RBD), first brake lever (L1), second brake lever (L2), integrated device (10) and mounting provision (9). FBD and RBD, upon actuation, are configured to apply brakes on front wheel (108) and rear wheel (127), respectively. First brake lever (L1) is configured to actuate RBD. Integrated device (10) is operatively coupled to FBD, RBD, first brake lever (L1), second brake lever (L2) and is configured to actuate FBD upon actuation of RBD by first brake lever (L1). Mounting provision (9) extends downwardly from first sub-frame (117a) of two-wheeled vehicle (200). First sub-frame (117a) is on same lateral side of two-wheeled vehicle (200) on which RBD is positioned. Integrated device (10) is mounted to mounting provision (9) in non-vertical position such that at least portion of it is covered below first sub-frame (117a). Figure 4

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

#### (19) INDIA

(22) Date of filing of Application :28/06/2016

(43) Publication Date : 09/02/2018

## (54) Title of the invention : COLD PRESSURE FIX TONER COMPOSITIONS BASED ON CRYSTALLINE POLYESTER AND AMORPHOUS ORGANIC COMPOUND MIXTURES •

(51) International classification	:G03G9/08	(71)Name of Applicant :
(31) Priority Document No	:14/802,932	1)Xerox Corporation
(32) Priority Date	:17/07/2015	Address of Applicant :45 Glover Avenue, P.O. Box 4505,
(33) Name of priority country	:U.S.A.	Norwalk, Connecticut 06856-4505, UNITED STATES OF
(86) International Application No	:NA	AMERICA U.S.A.
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Richard Philip Nelson Veregin
(61) Patent of Addition to Application Number	:NA	2)Kentaro Morimitsu
Filing Date	:NA	3)Guerino G. Sacripante
(62) Divisional to Application Number	:NA	4)Ke Zhou
Filing Date	:NA	5)Nan-Xing Hu

#### (57) Abstract :

A cold pressure fix toner composition includes at least one crystalline polyester material having a melting point in a range from about 30 °C to about 130 °C and at least one C16 to C80 amorphous organic material having a Tg of from about -30 °C to about 70 °C. A method of cold pressure fix toner application includes providing the cold pressure fix toner composition, disposing the cold pressure fix toner composition on a substrate, and applying pressure to the disposed composition on the substrate under cold pressure fixing conditions. A latex can be formed from the cold pressure fix toner composition.

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

#### (19) INDIA

(22) Date of filing of Application :11/06/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : VEHICLE INTERIOR ILLUMINATION SYSTEM			
(51) International classification	:B60Q3/02	(71)Name of Applicant :	
(31) Priority Document No	:14/750,	1)GM Global Technology Operations LLC	
	245	Address of Applicant :300 Renaissance Center, Mail Code	
(32) Priority Date	:25/06/2015	482-C23-B21 Detroit, Michigan 48265-3000, United States of	
(33) Name of priority country	:U.S.A.	America U.S.A.	
(86) International Application No	:NA	(72)Name of Inventor :	
Filing Date	:NA	1)CARLESIMO, DANIEL P.	
(87) International Publication No	: NA	2)LAZARINI, MARCELO V	
(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 a device for illuminating an interior space is described and includes a controller including a microcontroller connected to a power control circuit and a signal reading circuit, wherein the power control circuit electrically connects to the signal reading circuit at a node. A lighting device including a light bulb and a user switch connects to the node of the controller via a single electric cable. The microcontroller controls the signal reading circuit to monitor a signal input from the user switch, and includes a control routine executable to control electric power to the lighting device in response to a user request, a user command, and a system request.

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

#### (19) INDIA

(22) Date of filing of Application :23/11/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : CLUTCH DEVICE WITH COMPENSATION FOR WEAR, NOTABLY FOR A MOTOR VEHICLE

:F16D21/06 :1561424 :26/11/2015 :France :NA :NA : NA : NA	<ul> <li>(71)Name of Applicant :</li> <li>1)VALEO EMBRAYAGES <ul> <li>Address of Applicant :81 Avenue Roger Dumoulin, 80009</li> </ul> </li> <li>Amiens Cedex 2, France, France</li> <li>(72)Name of Inventor : <ul> <li>1)LEBAS, Gilles</li> <li>2)LAFORGE, Thibault</li> <li>3)COMMEINE, Emmanuel</li> </ul> </li> </ul>
:NA :NA ·NA	
	:F16D21/06 :1561424 :26/11/2015 :France :NA :NA :NA :NA :NA :NA

(57) Abstract :

The invention relates notably to a dual clutch (1) with compensation for wear, notably for a motor vehicle, comprising at least a reaction plate (4), a first and a second friction disc (5a, 5b), a first and a second pressure plate (3a, 3b) controlled respectively by a first and a second diaphragm (9a, 9b), a fixed housing (6), first wear detection and compensation means mounted between the first diaphragm (9a) and the fixed housing (6), and second wear detection and compensation means mounted between the second diaphragm (9b) and the second pressure plate (3b).



No. of Pages : 56 No. of Claims : 15

#### (19) INDIA

(22) Date of filing of Application :07/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : OVERALL TOP LINE REVENUE SHARING LOYALTY PROGRAM :G06F (71)Name of Applicant : (51) International classification **1)SAURABH KATHPALIA** 21/54 (31) Priority Document No Address of Applicant :HOUSE NO D-87, SECTOR 56, :NA (32) Priority Date NOIDA Uttar Pradesh India :NA (33) Name of priority country (72)Name of Inventor : :NA (86) International Application No :NA **1)SAURABH KATHPALIA** Filing Date :NA 2)SAURABH KATHPALIA (87) International Publication 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 invention related to business promotion and expansion for startup as well as established online affiliate marketing companies, for startup as well as established service companies and for professionals who charge a Fee for the services offered. In this invention, initial few customers, herein referred as Early bird customers, the number of early bird customers as decided by the management, who buy any goods or services through an affiliate marketing Business Entity or take any service from any service related Business entity are distributed a fixed percentage of Top line revenue earned by the Business Entity from the very first rupee earned and not after expenses for running the business. Aspect to note here is that these initial few customers, also known as Early bird customers stand to benefit by getting a share out of Business Entitys Top line earnings, each and every rupee that the Business Entity earns or will earn in future, just by virtue of them being Business Entitys Early bird customers, when the Business Entity was just starting business. By following this practice religiously, the management of the Business Entity aims to create a very strong word of mouth publicity from the set of early bird customers as they earn from the very first rupee and with each and every rupee that the Business Entity earns. Through this system, the endeavor is to create a virtual marketing team out of satisfied customers without having to incur a fixed salary obligation. Also, this system aims to provide a regular monthly income for a set of eligible customers till the business is in existence, as they benefit every time the Business Entity earns a rupee from any and every source, irrespective of whether the Business Entity is posting a Net profit or a Net loss. This way, the team of these eligible customers will try to ensure from their side that business remains in existence forever by making efforts for promoting the business. 2 Further, In this invention, all customers have an option of referring new customers and earning a percentage out of the revenue earned by the Business Entity through the referred customers. Using this refer and earn program, all new customers, after the initial set of early bird customers will also have an opportunity to earn a percentage out of companys overall Top line revenue earned which can be much greater than being given to early bird customers, if they are able to earn a certain thresh hold income by referring new customers and earning from refer and earn program. These few customers who are able to secure a share in Business entitys top line revenue by earning a thresh hold income through the refer and earn program are herein referred to as Active Loyal Customers. Opportunity to qualify as an Active Loyal Customer will be available with all customers of the business entity, including the Early bird customers. This invention which may be used by Business entities to build their business and customer base takes inspiration from a law of nature which infers that if you want to create wealth for yourself then aim to create wealth for as many other people as possible. Kindly note that during the description of the invention, we have used the terms revenue and earnings interchangeably and both signify the same thing.



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

(19) INDIA

(22) Date of filing of Application :23/11/2017

(54) Title of the invention : BOIL OFF GAS RE LIQUEFYING SYSTEM

(43) Publication Date : 09/02/2018

#### :F17C5/02,F17C7/04,F25J1/00 (71)Name of Applicant : (51) International classification **1)DAEWOO SHIPBUILDING & MARINE** (31) Priority Document No :1020150078142 (32) Priority Date :02/06/2015 ENGINEERING CO. LTD. (33) Name of priority country :Republic of Korea Address of Applicant :125 Namdaemun ro Jung gu Seoul (86) International Application No :PCT/KR2016/004103 04521 Republic of Korea (72)Name of Inventor: Filing Date :20/04/2016 (87) International Publication No :WO 2016/195237 **1)SHIN Hyun Jun** (61) Patent of Addition to 2)CHOI Dong Kyu :NA Application Number 3)MOON Young Sik :NA Filing Date 4)AN Su Kyung (62) Divisional to Application 5)LEE Joon Chae :NA Number :NA Filing Date

#### (57) Abstract :

Disclosed is a system for re liquefying a boil off gas generated from a storage tank. A boil off gas re liquefying system comprises: a first compressor for compressing a part of a boil off gas (hereafter referred to as fluid A) that is discharged from a storage tank; a second compressor for compressing the other part of the boil off gas (hereafter referred to as fluid B) that is discharged from the storage tank; a second expanding means for expanding a part of a confluence flow (hereafter referred to as fluid C) of fluid A and fluid B; a heat exchanger for cooling the other part of the confluence flow (hereafter referred to as fluid D) of fluid A and fluid B; and a first expanding means for expanding fluid D that has been cooled by means of the heat exchanger wherein the heat exchanger heat exchanges and cools fluid D by means of fluid C which has been expanded by means of the second expanding means as a refrigerant.



No. of Pages : 16 No. of Claims : 9

(22) Date of filing of Application :23/11/2017

(43) Publication Date : 09/02/2018

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application</li> <li>No         <ul> <li>Filing Date</li> <li>(87) International Publication N</li> <li>(61) Patent of Addition to</li> </ul> </li> <li>Application Number         <ul> <li>Filing Date</li> <li>(62) Divisional to Application</li> </ul> </li> <li>Number         <ul> <li>Filing Date</li> </ul> </li> </ul>	:B63B25/16,F17C6/00,F17C9/02 :1020150078142 :02/06/2015 :Republic of Korea :PCT/KR2016/003543 :05/04/2016 o:WO 2016/195231 :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)DAEWOO SHIPBUILDING &amp; MARINE</li> <li>ENGINEERING CO. LTD. Address of Applicant :125 Namdaemun ro Jung gu Seoul</li> <li>04521 Republic of Korea</li> <li>(72)Name of Inventor :</li> <li>1)SHIN Hyun Jun</li> <li>2)CHOI Dong Kyu</li> <li>3)MOON Young Sik</li> <li>4)AN Su Kyung</li> <li>5)JANG Hyun Min</li> <li>6)SON Jae Wook</li> <li>7)LEE Joon Chae</li> </ul>
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#### (54) Title of the invention : SHIP

#### (57) Abstract :

Disclosed is a ship comprising a storage tank for storing a liquefied gas. A ship comprises: a boil off gas heat exchanger which is provided downstream of a storage tank and is for heat exchanging a compressed boil off gas (hereafter referred to as a first fluid) by means of a boil off gas discharged from the storage tank as a refrigerant thereby cooling same; a compressor which is provided downstream of the boil off gas heat exchanger and is for compressing a part of the boil off gas discharged from the storage tank; an extra compressor which is provided downstream of the boil off gas heat exchanger and parallel with the compressor and is for compressing the other part of the boil off gas discharged from the storage tank; a propulsion compressor which is provided upstream of the boil off gas heat exchanger and is for compressing the first flow supplied to the boil off gas heat exchanger; a refrigerant heat exchanger which is for additionally cooling the first fluid which has been cooled by means of the boil off gas heat exchanger; a refrigerant decompressing device which is for expanding a second fluid which has been sent to the refrigerant heat exchanger (a fluid sent to the refrigerant heat exchanger hereafter being referred to as a second fluid) and cooled by means of the refrigerant heat exchanger and then sending same back to the refrigerant heat exchanger; and a first decompressing device which is for expanding the first fluid that has been cooled by means of the boil off gas heat exchanger and refrigerant heat exchanger wherein the refrigerant heat exchanger heat exchanges and cools both the first fluid and second fluid by means of the boil off gas which has passed the refrigerant decompressing device as a refrigerant wherein the first fluid is either the boil off gas which has been compressed by means of the compressor or a confluent flow of the boil off gas compressed by means of the compressor and the boil off gas compressed by means of the extra compressor and the second fluid is either the boil off gas which has been compressed by means of the extra compressor or a confluent flow of the boil off gas compressed by means of the compressor and the boil off gas compressed by means of the extra compressor.

No. of Pages : 80 No. of Claims : 20

(19) INDIA

(22) Date of filing of Application :23/12/2017

#### (43) Publication Date : 09/02/2018

#### :G06F13/00 (71)Name of Applicant : (51) International classification 1)ULTRATA LLC (31) Priority Document No :62/172978 (32) Priority Date Address of Applicant :1934 Old Gallows Road Suite 350 :09/06/2015 (33) Name of priority country Vienna Virginia 22182 U.S.A. :U.S.A. :PCT/US2016/035268 (72)Name of Inventor : (86) International Application No Filing Date :01/06/2016 1)FRANK Steven (87) International Publication No :WO 2016/200657 2) REBACK Larry (61) Patent of Addition to Application :NA Number :NA Filing Date (62) Divisional to Application Number :NA Filing Date :NA

(54) Title of the invention : INFINITE MEMORY FABRIC HARDWARE IMPLEMENTATION WITH ROUTER

#### (57) Abstract :

Embodiments of the invention provide systems and methods for managing processing memory storage network and cloud computing to significantly improve the efficiency and performance of processing nodes. More specifically embodiments of the present invention are directed to a hardware based processing node of an object memory fabric. The processing node may include a memory module storing and managing one or more memory objects the one or more memory objects each include at least a first memory and a second memory wherein: each memory object is created natively within the memory module and each memory object is accessed using a single memory reference instruction without Input/Output (I/O) instructions; and a router configured to interface between a processor on the memory module and the one or more memory objects.

No. of Pages : 102 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :23/12/2017

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : COMPOUNDS FOR USE IN TREATING NEUROMUSCULAR DISORDERS

(51) International classification	:A61K31/192,A61K31/216,A61K31/44	(71)Name of Applicant : 1)NMD PHARMA APS
(31) Priority Document No	:62/175590	Address of Applicant :c/o Capnova bogade 15 8200 rhus N Denmark
(32) Priority Date	:15/06/2015	(72)Name of Inventor :
(33) Name of priority country	:U.S.A.	1)HOLM PEDERSEN Thomas 2)BROCH LIPS Martin
(86) International Application No Filing Date :PCT/DK2016/050186 :15/06/2016	3)ELSBORG OLESEN Claus 4)LABELLE Marc 5)BKGAARD NIELSEN Ole	
(87) International Publication No	:WO 2016/202341	
<ul> <li>(61) Patent of Addition to</li> <li>Application Number</li> <li>Filing Date</li> <li>(62) Divisional to</li> <li>Application Number</li> </ul>	:NA :NA	
Filing Date	:INA	

(57) Abstract :

The present invention relates to compositions comprising compounds for use in treating ameliorating and/or preventing neuromuscular disorders. The compounds as defined herein preferably inhibit the ClC 1 ion channel. The invention further relates to methods of treating preventing and/or ameliorating neuromuscular disorders by administering said composition to a person in need thereof.



No. of Pages : 121 No. of Claims : 78

(12) PATENT APPLICATION PUBLICATION
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(22) Date of filing of Application :13/01/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : RECIRCULATION VALVE				
<ul> <li>(54) Title of the invention : RECIRCULATION VAI</li> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	:F02M25/07 :1504058.7 :10/03/2015 :U.K. :NA :NA :NA : NA	<ul> <li>(71)Name of Applicant :</li> <li>1)CONCENTRIC BIRMINGHAM LIMITED Address of Applicant :Unit 10, Gravelly Park Tyburn Road Birmingham B24 8HW West Midlands, United Kingdom U.K.</li> <li>(72)Name of Inventor :</li> <li>1)SHEPHERD, Paul</li> <li>2)PIECZKO, Mark</li> </ul>		
(61) Patent of Addition to Application Number Filing Date	:NA :NA			
(62) Divisional to Application Number Filing Date	:NA :NA			

#### (57) Abstract :

A recirculation valve for a pump having a regulator spool, a first resilient biasing means and a control valve. The first resilient biasing means biases the regulator spool in a first position in which flow of a liquid from a first port of the pump to a second port of the pump is prevented. The control valve controls the force required to move the regulator spool against the first resilient biasing means to a second position in which flow of the liquid from the first port to the second port is enabled.



No. of Pages : 25 No. of Claims : 16

(19) INDIA

(22) Date of filing of Application :21/12/2017

(43) Publication Date : 09/02/2018

(51) International classification	:B29C35/16,	(71)Name of Applicant :
(31) Priority Document No	:61/089,704	1)Productive Research LLC
(32) Priority Date	:18/08/2008	Address of Applicant :1599 Sugar Maple Way, West
(33) Name of priority country	:U.S.A.	Bloomfield, Michigan 48324, United States of America U.S.A.
(86) International Application No	:PCT/US2009/053676	(72)Name of Inventor :
Filing Date	:13/08/2009	1)MIZRAHI, Shimon
(87) International Publication No	:WO / 2010/021899	
(61) Patent of Addition to Application	٠NA	
Number	·NA	
Filing Date	.11A	
(62) Divisional to Application Number	:923/DELNP/2011	
Filed on	:07/02/2011	

#### (54) Title of the invention : FORMABLE LIGHT WEIGHT COMPOSITES

(57) Abstract :

The present invention relates to light weight composite materials (10, 12) which comprise a metallic layer (14) and a polymeric layer, the polymeric layer containing a filled thermoplastic polymer (16) which includes a thermoplastic polymer (18) and a metallic fiber (20). The composite materials of the present invention may be formed using conventional stamping equipment at ambient temperatures. Composite materials of the present invention may also be capable of being welded to other metal materials using a resistance welding process such as resistance spot welding.



No. of Pages : 62 No. of Claims : 24

(22) Date of filing of Application :11/05/2016

(21) Application No.201611016447 A

(43) Publication Date : 09/02/2018

## (54) Title of the invention : Computer-implement method and system for competency information management

(51) International classification :G06Q30/08	(71)Name of Applicant :
(31) Priority Document No :NA	1)Hitanshu Dewan
(32) Priority Date :NA	Address of Applicant :#85, Pocket-D/11, Sector-8, Rohini,
(33) Name of priority country :NA	Delhi-110085 Delhi India
(86) International Application No :NA	(72)Name of Inventor :
Filing Date :NA	1)Hitanshu Dewan
(87) International Publication No : NA	2)Subhasish Ghosh
(61) Patent of Addition to Application Number :NA	
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

#### (57) Abstract :

Embodiments herein discloses a method for competency information management. The method includes receiving an input topic. Further, the method includes causing by the competency profile manager to display a graphical element comprising at least one knowledge cluster of interconnected skills corresponding to the input topic, wherein the at least one knowledge cluster of interconnected skills are dynamically determined from a cluster-based knowledge repository based on a plurality of competency parameters. Furthermore, the method includes generating by the competency profile manager a competency profile by combining the input topic with at least one skill selected from the plurality of interconnected skills and storing the competency profile. FIG. 4



No. of Pages : 67 No. of Claims : 37
#### (19) INDIA

(22) Date of filing of Application :11/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : LIFTER BASED TRAVERSAL OF A ROBOT		
(51) International classification	:B66F9/06	(71)Name of Applicant :
(31) Priority Document No	:NA	1)THE HI-TECH ROBOTIC SYSTEMZ LIMITED
(32) Priority Date	:NA	Address of Applicant : THE HI-TECH ROBOTIC SYSTEMZ
(33) Name of priority country	:NA	LIMITED A-18, INFOCITY, SECTOR 34, GURGAON,
(86) International Application No	:NA	HARYANA PINCODE-122001 INDIA Haryana India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)ANUJ KAPURIA
(61) Patent of Addition to Application Number	:NA	2)FAHAD MUNAWAR AZAD
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

A lifter system (100) based traversal mechanism for a robot (400) includes detection of the robot (400) at a predetermined distance from a movable platform (106). The movable platform (106) is part of the lifter system (100). Teeth (410) orientation of cog wheels (408) of the robot (400) are changed to match teeth orientation of teeth (1102) of a fixed teeth structure (104) of the movable platform (106). The movable platform (106) is moved in to a predetermined proximity of the robot (400) so that teeth (410 and 1102) are engaged. The movable platform (106) takes the robot (400) from a first position to a second position. On reaching the second position the robot (400) is disengaged from the movable platform (106).



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

#### (19) INDIA

(22) Date of filing of Application :12/05/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : PROCESS FOR PREPARING 2,2'-DIHYDROXY-3,3'-DI-TERT-BUTYL-5,5'-DIMETHOXY-1,1'-BIPHENOL

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No <ul> <li>Filing Date</li> </ul> </li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number <ul> <li>Filing Date</li> </ul> </li> <li>(62) Divisional to Application Number</li> </ul>	:A61K :EP15168364 :20/05/2015 :EPO :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ol> <li>Evonik Degussa GmbH</li> <li>Address of Applicant :Rellinghauser Strae 1-11, 45128 Essen</li> </ol> </li> <li>(DE) Germany</li> <li>(72)Name of Inventor : <ol> <li>DYBALLA, Katrin Marie</li> <li>CHRISTIANSEN, Andrea</li> <li>FRANKE, Robert</li> <li>FRIDAG, Dirk</li> <li>KREIDLER, Burkard</li> </ol> </li> </ul>
(62) Divisional to Application Number Filing Date	:NA :NA :NA	4)FRIDAG, Dirk 5)KREIDLER, Burkard
Thing Date	.INA	

(57) Abstract :

Present Invention discloses Process for preparing 2,2-dihydroxy-3,3-di-tert-butyl-5,5-dimethoxy-1,1- biphenol

No. of Pages : 11 No. of Claims : 13

(22) Date of filing of Application :20/04/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : HYDROGEN GAS GENERATOR			
(51) International classification	:B01J7/02	(71)Name of Applicant :	
(31) Priority Document No	:2015-	1)Miz Company Limited	
(51) Thomy Document No	158735	Address of Applicant :19-15, Ofuna 2-chome, Kamakura-shi,	
(32) Priority Date	:11/08/2015	Kanagawa 247-0056, Japan Japan	
(33) Name of priority country	:Japan	(72)Name of Inventor :	
(86) International Application No	:NA	1)KUROKAWA, Ryousuke	
Filing Date	:NA	2)TANAKA, Kenji	
(87) International Publication No	: NA	3)SATOH, Fumitake	
(61) Patent of Addition to Application Number	:NA	4)SATOH, Bunpei	
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

#### (57) Abstract :

A hydrogen gas generator comprises: an electrolyzer (2) configured to include a housing (20), a first chamber (21), a second chamber (22), a membrane (25), and a pair of electrode plates (23, 24); a tank (6) configured to store water to be electrolyzed (W); an electric power source (3) configured to apply a DC voltage to the pair of electrode plates; a diluter (4) configured to introduce a diluent gas into the first chamber or the second chamber in which the electrode plate to be a cathode is provided, the diluent gas diluting hydrogen gas generated; an electric quantity detector (51) configured to detect an electric quantity given to the electrode plate to be the cathode; a flow rate detector (52) configured to detect a flow rate of the diluent gas from the diluter; a calculator (5) configured to calculate a concentration of the diluted hydrogen gas on the basis of the electric quantity detected by the electric quantity detector and the flow rate detected by the flow rate detector; and an indicator (54) configured to present the concentration of hydrogen gas calculated by the calculator.



No. of Pages : 36 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :24/05/2016

(43) Publication Date : 09/02/2018

(51) International classification	:F02F3/00	(71)Name of Applicant :
(31) Priority Document No	:2015- 105538	1)SUZUKI MOTOR CORPORATION Address of Applicant :300, Takatsuka-cho. Minami-ku,
(32) Priority Date	:25/05/2015	Hamamatsu-shi, Shizuoka-ken. JAPAN Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:NA	1)Naoyuki SUDA
Filing Date	:NA	2)Kunio HAYAKAWA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (54) Title of the invention : PISTON FOR INTERNAL COMBUSTION ENGINES

#### (57) Abstract :

A resin coat film 39 formed on a skirt portion 10 o( a piston 7 has a four-sided outer peripheral region knurled at upper and lower regions thereof corresponding in a rear view of the piston 7 to an upper skirt pari 36 and a lower skirt part 38 of the skirt portion 10 extending in parallel with an axial direction of left and right piston pin boss portions 15 and 14, with a combination of short vertical grooves 43A and 4313 and medium-length vertical grooves 42A and 4213 extending in parallel with a central axis C of a piston crow portion 9, and at left and right edge regions thereof, with long vertical grooves 41.



No. of Pages : 49 No. of Claims : 5

#### (19) INDIA

(22) Date of filing of Application :08/02/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : CONNECTORS FOR PNEUMATIC DEVICES IN MICROFLUIDIC SYSTEMS

(51) International classification	:C12M3/06	(71)Name of Applicant :
(31) Priority Document No	:62/130,089	1)EMD MILLIPORE CORPORATION
(32) Priority Date	:09/03/2015	Address of Applicant :290, Concord Road Billerica, MA
(33) Name of priority country	:U.S.A.	01821, USA U.S.A.
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)TERRY GAIGE
(87) International Publication No	: NA	2)ANDREW ZAYAC
(61) Patent of Addition to Application Number	:NA	3)PAUL SYDLOWSKI
Filing Date	:NA	4)PHILIP LEE
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one embodiment, a removable pneumatic connector, comprises a body having a plurality of bores passing through, each bore surrounded by a sealing member on an inner surface of the body. A plurality of gas lines may be placed within a corresponding bore. A vacuum port is disposed on the inner surface of the body, and an outer seal on the inner surface of the body surrounds the sealing members and the vacuum port. A vacuum line may be placed within the vacuum port, and configured to deliver negative pressure to the vacuum port. A vacuum holding area is created in the volume between the outer seal and each of the sealing members when the inner surface of the body is placed against a substrate. When the vacuum line is activated, a vacuum is created within the vacuum holding area, creating a positive seal between the body and the substrate.

No. of Pages : 0 No. of Claims : 20

#### (19) INDIA

(22) Date of filing of Application :06/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A KIT AND METHOD FOR WATERPROOFING

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country.</li> </ul>	:E21D 11/38 :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)TEQUASIL MATERIALS PVT. LTD. Address of Applicant :503 / 504, BLDG. NO. A3 GANGA SAMRUDDHI, WANAWADI, PUNE 411040,</li> <li>MAHARASHTRA, INDIA Meharashtra India.</li> </ul>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)TUSHAR MUNSHI
(87) International Publication 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 kit for waterproofing, said kit comprising: wire brush to scrub a surface that is to be waterproofed; chisel for widening cracks or tile joints on the surface; brush for cleaning the widened cracks or tile joints; straw for blowing air into the cracks or tile joints and further washing with water; and waterproofing flexible sealant and waterproofing coating.



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

#### (19) INDIA

(22) Date of filing of Application :06/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF IMIDACLOPRID IN BIPHASIC CONDITION

#### (57) Abstract :

The embodiment of the present invention is an improved process for the preparation of imidacloprid in biphasic condition which reduces impurities along with dimer impurities. The present invention is an improved process for preparation of imidacloprid in biphasic condition which comprises of condensing 2-chloro-5-chloromethyl pyridine (CCMP) with 2-nitroimino imidazolidine (NII) in the presence of alkali base and aprotic solvent, specifically dimethylformamide(DMF). Further, crude imidacloprid is purified on biphasic condition. The imidacloprid thus obtained through said process gives high yield with high purity. Said invention thus reduces impurities from Imidacloprid in an efficient and economical manner.

No. of Pages : 16 No. of Claims : 2

#### (19) INDIA

(22) Date of filing of Application :06/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF IMIDACLOPRID

	:A01N43/36,	(71)Name of Applicant :
(51) International classification	C07D409/12,	1)MEGHMANI ORGANICS LIMITED
	C0/D413/12	Address of Applicant : Meghmani House, 10, Shreenivas
(31) Priority Document No	:NA	Society, opp. New Vikashgurh Road, Paladi, Ahmedabad- Gujarat
(32) Priority Date	:NA	India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)PATEL, Natu M.
Filing Date	:NA	2)PATEL, Ankit
(87) International Publication No	: NA	3)PATEL, Karan
(61) Patent of Addition to Application Number	:NA	4)NALWAYA, Niranjan
Filing Date	:NA	5)VYAS, Bhavesh
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

The embodiment of the present invention is an improved process for the preparation of imidacloprid which reduces impurities along with dimer impurities. The present invention is an improved process for preparation of imidacloprid which comprises of condensing 2-chloro-5-chloromethyl pyridine (CCMP) with 2-nitroimino imidazolidine (NII) in the presence of alkali base and aprotic solvent, specifically dimethylformamide(DMF). Further, crude imidacloprid is purified by recovery of DMF and adding an alcoholic solvent. The imidacloprid thus obtained through said process gives high yield with high purity. Said invention thus reduces impurities from Imidacloprid in an efficient and economical manner.

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

#### (19) INDIA

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : SINGLE COMPONENT PLASTIC SCREW CAP

(51) International classification	:B65D 41/00	(71)Name of Applicant : 1)RAMESH PILLAI
(31) Priority Document No	:NA	Address of Applicant :1002, SWAPNALOK-2, OPP INDIAN
(32) Priority Date	:NA	OVERSEASSE BANK, MARVE ROAD, MALAD (W),
(33) Name of priority country	:NA	MUMBAI-400 064, MAHARASHTRA, INDIA. Maharashtra
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)RAMESH PILLAI
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A single component screw cap made of two different plastic materials instead of two separate components (Bare caps and gaskets) and assembling it later. [fig 1 d] The single component screw cap is used for fitting it on to an aluminium container and to ensure its leak proof. The sealing area of the screw cap offers good chemical stability against the pesticides, solvents and chemicals in the container. [fig 2 b] The cap fitting on to aluminium bottle can be automated because of the vertical projected ribs inside the wall, [fig 2 c] The design makes it reusable and in line with BIS standards of India [ref. IS 9503-1988] for packing of pesticides.

No. of Pages : 9 No. of Claims : 5

#### (19) INDIA

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : A SYNTHETIC HYDROTALCITE AND ONE PACK STABILIZER SYSTEM COMPRISING THE SAME.

(51) International classification	:C09K21/14, C08K3/26, C09K21/10	<ul> <li>(71)Name of Applicant :</li> <li>1)Heubach Colour Pvt. Ltd. Address of Applicant :Plot No. 9002-9010, Phase VI,</li> </ul>
(31) Priority Document No	:NA	G.I.D.C., Ankleshwar - 393002, Gujarat, India Gujarat India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Sevak Jashvant Ishvarlal
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication 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 synthetic hydrotalcite having formula (1); Mg X Zn Y Ca Z Al2(OH) 13CO3 4H20; where X = 3-4, Y= 0.5 -1.5, and Z = 0.3 3.5 the said synthetic hydrotalcite having 19 to 22 % of Al2O3, 13 to 32 % of MgO, at least 0.2% of CaO, and at least 3 % of Zn; BET in the range of 12 to 15 m2/gm; Particle size in the range of 0.5 to 0.9 micron, and Impurity profile having Iron content in the range of 80 to 150 ppm, Chromium in the range of 25 to 50 ppm, Cobalt in the range of 350 to 500 ppm and Nickel in the range of 10 to 20 ppm. Methods of manufacturing synthetic hydrotalcite having formula (1) were also disclosed including an eco-green • method. One pack stabilizer system comprising synthetic hydrotalcite having formula (I) for polymeric applications, particularly in PVC and polyolefin polymer and master batch thereof is also disclosed.

No. of Pages : 36 No. of Claims : 4

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : COLD STORAGE OF THERMAL INSULATED CONTAINER FOR TRANSPORTATION OF **TEMPERATURE SENSITIVE GOODS**

(51) International classification	:F25D3/10, F25D23/02	(71)Name of Applicant : 1)TEMPCOOL SHIPPER
(31) Priority Document No	:NA	Address of Applicant :57/1/3/15, HISSA NO.1897,
(32) Priority Date	:NA	SHIVNERI NAGAR, NEXT TO SHIVGANGA SOCIETY,
(33) Name of priority country	:NA	KONDHWA KHURD, HAVELI, PUNE-411048,
(86) International Application No	:NA	MAHARASHTRA, INDIA. Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)MR. MANGESH KALIKAPRASAD VISHWAKARMA
(61) Patent of Addition to Application Number	:NA	2)MR. SHIVKUMAR PADMAKAR PILLAY
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A transport system comprises an insulating block. A plurality of layers of an insulating material which forms sides of a container and are mounted on the corrugated cardboard box which closes one end of the container. A heat shrunk pressure envelope of polyethylene.

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

(19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PROCESS FOR THE PREPARATIO OF (SP)-SOFOSBUVIR AND INTERMEDIATES THEREOF

(51) International classification	:C07H 19/00	<ul><li>(71)Name of Applicant :</li><li>1)Alembic Pharmaceuticals Limited</li></ul>
(31) Priority Document No	:NA	Address of Applicant : Alembic Research Centre, Alembic
(32) Priority Date	:NA	Pharmaceuticals Limited, Alembic Road, Vadodara-390 003.
(33) Name of priority country	:NA	Gujarat, India. Gujarat India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DOMADIYA, Vipul
(87) International Publication No	: NA	2)DHAMELIYA, Dharmesh
(61) Patent of Addition to Application Number	:NA	3)RAVAL, Prashant
Filing Date	:NA	4)KONDEPATI, Venkata Ramana
(62) Divisional to Application Number	:NA	5)SIRIPRAGADA, Mahender Rao
Filing Date	:NA	

(57) Abstract :

The present invention is directed towards process for preparation of an optically pure (Sp)-Sofosbuvir of Formula-I and its intermediate namely (Sp)-isomer of isopropyl alanyl phosphoramidate of Formula (III) thereof. Formula-

(I) Formula (III)

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

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : ENERGY SAVING IN ELECTROLYSIS.		
(51) International classification :H	101M	(71)Name of Applicant :
10	)/00	1)MR. SUHAS BHALCHANDRA WALSE
(31) Priority Document No :N	IA	Address of Applicant :1ST FLOOR, H.NO. 363, GURUWAR
(32) Priority Date :N	IA	PETH, PUNE-411042, MAHARASHTRA, INDIA. Maharashtra
(33) Name of priority country :N	IA	India
(86) International Application No :N	IA	(72)Name of Inventor :
Filing Date :N	IA	1)MR. SUHAS BHALCHANDRA WALSE
(87) International Publication No : N	NA	
(61) Patent of Addition to Application Number :N	IA	
Filing Date :N	IA	
(62) Divisional to Application Number :N	IA	
Filing Date :N	IA	

(57) Abstract :

Using polyelectrolytes as catalyst during electrolysis, in a solution phase electrolysis of electrolyte the rate of reaction rate is improved almost 3 times by using a polyelectrolytes as a unique catalyst. A thin film is formed that works as a catalyst, as well as it also improves contact angle at anode electrolyte surface junction interface, wetting and adsorbing on its surface with strong adhesion thus making a firm contact between anode electrolyte cathode and thus reducing contact resistance and wastage of power as I2R losses generating into wasted heat. Deteriorating the cell, thus improving electrical energy density and longevity of cell/batteries. It is applicable catalyst in variety of process Etc.

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

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : SYSTEM AND METHOD FOR DETECTION AND MONITORING OF OPERATIONAL ISSUES IN VISUAL MERCHANDISING

(51) International classification:G06F11(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(36) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NA(63) Divisional to Application Number:NA(64) Divisional to Application Number:NA	<ul> <li>(71)Name of Applicant :         <ol> <li>Tata Consultancy Services Limited Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai-400021, Maharashtra, India Maharashtra India (72)Name of Inventor :             <li>CHOWDHURY, Ashish Arun</li> </li></ol></li></ul>
Filing Date :NA	

#### (57) Abstract :

A system and method provide a holistic solution based on image processing for operational issues in visual merchandising. In one embodiment, the system captures one or more images of one or more operational issues in a commercial establishment with a plurality of installed media acquisition module. Further, the system categorize these one or more images based on the field view of the one or more operational issues using a video content module. Furthermore, the system classifies the categorized one or more operational issues into dynamic and non-dynamic operation issues based on the frequency of change of objects or movement of people in real time. The digital image processing extracts one or more features of the classified images and warrants corrective actions based on the features of the operational issues. In addition to this, the system tracks and analyze impact of the corrective actions on operational issues of visual merchandizing.



No. of Pages : 20 No. of Claims : 12

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : SPONGE IRON FEED SYSTEM FOR AN INDUCTION FURNACE

(51) International classification	:C30B 35/00 C23C 14/00	<ul> <li>(71)Name of Applicant :</li> <li>1)SHAILESH BHANDARI</li> <li>Address of Applicant :Bhandari Farm House Bopal-Ambli</li> <li>Road, Bopal Ahmedabad Gujarat India Gujarat India</li> </ul>
(31) Priority Document No	:NA	2)INDUS UNIVERSITY
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Shailesh Bhandari
(86) International Application No	:NA	2)Siddharth Bhandari
Filing Date	:NA	
(87) International Publication 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 material feed system (12) for feeding a charge (18) in a crucible (16) of a furnace (10), the material feed system (12) having a pipe (38) having a first end (44) configured to deliver the charge (18) in the crucible (16) and a second end (46) configured to receive the charge (18). A screw conveyor (36) is disposed in the pipe (38) and is configured to convey the charge (18) from the second end (46) to the first end (44) of the pipe. A support structure (22) is provided to position the first end (44) inside the crucible (16). FIG. 1

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No. of Pages : 15 No. of Claims : 10

#### (19) INDIA

(22) Date of filing of Application :02/08/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : DEBURRING TOOL HEAD		
(51) Intermetional classification	:B23B31/02,	(71)Name of Applicant :
(31) International classification	B23B51/10	1)PURAV Chetan Prabhakar
(31) Priority Document No	:NA	Address of Applicant :502, Sunrise Apartment, 10, Pitamber
(32) Priority Date	:NA	Lane, Mahim (W), Mumbai-400016, Maharashtra, India
(33) Name of priority country	:NA	Maharashtra India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)PURAV Chetan Prabhakar
(87) International Publication 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 mechanical engineering. In particular, the present disclosure relates to a deburring tool head. The deburring tool head of the present disclosure facilitates economizing the deburring process and is easy to use in manual as well as mechanized deburring processes. The deburring tool head of the present disclosure is also reversibly usable for deburring of inner diameter as well as the outer diameter of a workpiece. The primary use of the deburring tool head, as envisaged in the present disclosure, is for performing deburring operations on the workpiece. Fig.1b

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

(19) INDIA

(22) Date of filing of Application :02/08/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : SUBSTITUTED 1,2-DIHYDRO-3H-PYRAZOLO[4,3-C]QUINOLIN-3-ONE AS ATR KINASE INHIBITORS

(51) International classification	:A61K 38/55	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY
(31) Fliolity Document No (32) Priority Date	.NA ·NA	Address of Applicant Indian Institute of Technology
(32) Name of priority country	.IN/A	Gandhinagar Dalai Gandhinagar 282255 Guiarat India Guiarat
(35) Name of priority country	.INA	Ganunnagar, Faraj, Ganunnagar - 582555, Gujarat, muta Gujarat
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)KIRUBAKARAN,Sivapriya
(61) Patent of Addition to Application Number	:NA	2)THIRUVENKATAM,Vijay
Filing Date	:NA	3)SHAIK,Althaf
(62) Divisional to Application Number	:NA	4)BHAKUNI, Rashmi
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to substituted 1,2-dihydro-3h-pyrazolo[4,3-c]quinolin-3-one of Formula-Q as ATR kinase inhibitors. Formula-Q wherein, R is selected from the group consisting of hydrogen and alkyl group; wherein, R1, R2, and R3 are independently selected from the group consisting of hydrogen or alkyl, Z is nitrogen at different positions, X is selected from the group consisting of halogen, alkyl, haloalkyl, or cyano, and Y is selected from the group consisting of nitrogen, and oxygen. A process for preparation of compounds of Formula-Q is also disclosed. The pharmaceutical composition of compound of Formula-Q can be used as an ATR kinase inhibitor.

No. of Pages : 33 No. of Claims : 9

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHODOLOGY FOR THE MANAGEMENT OF AN INDUSTRIAL EVENT OR FOOD, WINE AND CULTURAL FEST AND FAIR

(51) International classification	:G06Q 10/00	(71)Name of Applicant : 1)Mohile Ulhas Ratnakar
(31) Priority Document No	:NA	Address of Applicant :Plot no. P-2, flat no 5, Laxmi Keshav
(32) Priority Date	:NA	apartment, R.P.T.S road, Laxmi nagar, Nagpur, Maharashtra-
(33) Name of priority country	:NA	4400022 Maharashtra India
(86) International Application No	:NA	2)Keswani Frazer Harishchandra
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Mohile Ulhas Ratnakar
(61) Patent of Addition to Application Number	:NA	2)Keswani Frazer Harishchandra
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

Present invention provides specially a methodology and process for organizing and managing an industrial event, food wine and cultural fest and fair. Training would be provided to organizing staff for personality and hygiene, etiquettes, courteousness and other related systems. The approach to the fest and fair is being comprehensive yet detailed, integrated towards business sense, professional (know your role thoroughly), creative and enterprising and above all teamwork. All agencies involved in this project, would very necessarily keep in mind this approach, trainings to be imparted on a mass level across the length and breadth of the country, every citizen for that matter, should be aware of his / her role and as to how they can derive benefit from this opportunity.

No. of Pages : 29 No. of Claims : 3

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : COMPLETE TREATMENT OF MIGRANE USING SPHAERANTHUS INDICUS AND PIPER NIGRUM PLANTS

(51) International classification	:A61K36/61, A61P3/04, A61K31/7008	<ul> <li>(71)Name of Applicant :</li> <li>1)Dr. Pragyan Tripathi</li> <li>Address of Applicant :14/3 Mahananda Nagar Ujjain Madhya</li> </ul>
(31) Priority Document No	:NA	Pradesh India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Dr. Pragyan Tripathi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

Sphaeranthus indicus and Piper nigrum has been traditionally reported to exhibit a variety of biological activities, including antidiabetic anti- inflammatory and antimicrobial etc. The objective of this study was to evaluate their pharmacological activity against migraine. In present study 5 gm of aqueous extract of whole plant (leaves, flower, roots and fruit) Sphaeranthus indicus and fruit of Piper nigrum formulated in the ratio of 4:1 were given to the patient in the form of tea. The result of present study verifies the effect of extract on permanent cure of migraine in 7 days in the patient who were suffering from migraine disease more than 12 years and no side effect on their health has been reported.

No. of Pages : 3 No. of Claims : 1

(	(12)	) PATENT APPLICATION PUBLICATION	
١			

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : FRAME

(51) International classification	:B60R 19/00	(71)Name of Applicant : 1)VE COMMERCIAL VEHICLES LTD.
(31) Priority Document No	:NA	Address of Applicant :VE COMMERCIAL VEHICLES LTD.
(32) Priority Date	:NA	102, INDUSTRIAL AREA 1, PITHAMPUR-454775, DISTRICT
(33) Name of priority country	:NA	DHAR, M.P., INDIA Madhya Pradesh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)ASHESH ANIL SHAH
(87) International Publication No	: NA	2)SANJAY TIWARI
(61) Patent of Addition to Application Number	:NA	3)VISHAL KUMAR GUPTA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A light weight frame for heavy vehicle comprises first and second frame cross sectional rails spaced apart by a cross-member wherein the frame comprises a composite cross-member made up of composite material.

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

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : METHOD FOR AMPLIFYING NUCLEIC ACID FROM A TARGET

(51) Intermetional electric stice	:A23K	(71)Name of Applicant :
(51) International classification	20/153	1)Indian Institute of Technology, Bombay
(31) Priority Document No	:NA	Address of Applicant : Powai, Mumbai-400076, Maharashtra,
(32) Priority Date	:NA	India Maharashtra India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Paul Debjani
Filing Date	:NA	2)Ghosh Dipayan
(87) International Publication No	: NA	3)Shetty Prasad J.
(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 generally provides a method for amplifying nucleic acid directly from a target. More particularly, the present invention provides a method for single-step disinfection, lysis and amplification of nucleic acid from a target without the need for any intermediate extraction, concentration and purification steps of the isolated nucleic acid.



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

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A BRAKING SYSTEM OF WHEELS

	:B60T	(71)Name of Applicant :
(51) International classification	8/62	1)Haldex India Pvt Ltd.
(51) International classification	B60W	Address of Applicant :B-71 MIDC Area, Ambad, Nashik-
	10/184	422010, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Gangurde Jaydeep Manikrao
(33) Name of priority country	:NA	2)Kaushik Vikas
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication 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 braking system of wheels. The braking system comprises a pneumatic system for supplying pressurized air for operating a pneumatic braking system. The braking system is provided with a valve for regulating supply of pressurized air to the pneumatic braking system of lifted wheels. The valve prevents the supply of the pressurized air to the pneumatic braking system and allows flow of the pressurized air to the braking system when the wheels are in a lifted condition and allows flow of the pressurized air to the braking system when the wheels are in a deployed condition, thereby reduces unnecessary braking of the lifted wheels.

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

(22) Date of filing of Application :03/08/2016

### (54) Title of the invention : A METHOD FOR PREPARATION OF 3-NITROPHTHALIC ANHYDRIDE

	:C07D307/89,	(71)Name of Applicant :
(51) International classification	C08G73/10,	1)RANE Dhananjay Sharad
	C07C205/57	Address of Applicant :B-201, Girija, Neelkant Heights,
(31) Priority Document No	:NA	Pokhran Road No.2, Thane (W) - 400 610, Maharashtra, India
(32) Priority Date	:NA	Maharashtra India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)RANE DHANAJAY SHARAD
Filing Date	:NA	2)KULKARNI Pravin Bhalchandra
(87) International Publication No	: NA	3)POTNIS Deepak Kumarsinh
(61) Patent of Addition to Application Number	:NA	4)MULAY Sidheshwar Rangnath
Filing Date	:NA	5)NEHETE Vrushali Kunal
(62) Divisional to Application Number	:NA	6)JOSHI Pradip Digamber
Filing Date	:NA	

#### (57) Abstract :

The present disclosure relates to a method for preparation of 3-nitrophthalic anhydride. The method of the present disclosure does not require the use of a  $\tilde{}$  controlled substance<sup>TM</sup> like acetic anhydride and uses an anhydride selected from propionic anhydride, n-butyric anhydride, isobutyric anhydride and acetic formic anhydride, in less molar quantities than the methods of the prior art. Also, the method of the present disclosure is less laborious and relies on commercially available organic fluid media for purification. The method of present disclosure is useful in preparing 3-nitrophthalic anhydride commercially in an economic and safe way.

Hand State

No. of Pages : 14 No. of Claims : 6

#### (19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : ORGANIC FERTILIZER AND A METHOD FOR PREPARING THE SAME

(51) International classification	:C05G1/00, C05F5/00, C05F17/00	(71)Name of Applicant : 1)GUJARAT STATE FERTILIZERS AND CHEMICALS LTD.
(31) Priority Document No	:NA	Address of Applicant :Fertilizernagar -391750, Dist.
(32) Priority Date	:NA	Vadodara, Gujarat, India Gujarat India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)SIKDAR, Ajay Santosh
Filing Date	:NA	2)TRIVEDI, Mukundray Chadulal
(87) International Publication 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 organic fertilizer composition and a method for preparing the same. The organic fertilizer is rich in NPK and other nutrients and is free from pathogens and foul odor. The organic fertilizer can be prepared using inexpensive raw material and can be used alone or in combination with other fertilizers for soil conditioning.

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

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : A SYSTEM AND A METHOD FOR ENERGY CAPTURE IN FLOWING FLUIDS

(51) International classification	:H02P9/04,	(71)Name of Applicant :
F03E	F03B13/00	1)DISHA SANTOSH SHINDE
(31) Priority Document No	:NA	Address of Applicant :HOUSE NO. 4/14/14, C/O. SANTOSH
(32) Priority Date	:NA	R. SHINDE, NAGESHWARWADI, AURANGABAD - 431001,
(33) Name of priority country	:NA	MAHARASHTRA, INDIA Maharashtra India
(86) International Application No	:NA	2)PRANJUL KUMAR TYAGI
Filing Date	:NA	3)SAHIL ANIL MAHAJAN
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DISHA SANTOSH SHINDE
Filing Date	:NA	2)PRANJUL KUMAR TYAGI
(62) Divisional to Application Number	:NA	3)SAHIL ANIL MAHAJAN
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system and a method for energy capture in flowing fluids. Using the system and method of the present invention it is possible to capture energy of a fluid that may be flowing in any direction without changing the configuration of the system. The system and the method of the present invention can be used to capture and generate energy in useful form, for example, electrical energy.

No. of Pages : 18 No. of Claims : 5

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

#### (54) Title of the invention : AIR AND WATER OPERATED HELICAL TURBINE FOR CANALS.

	:F03B13/22,	(71)Name of Applicant :
(51) International classification	F03D3/02,	1)ANAND KISHORBHAI PATEL
	F03B17/06	Address of Applicant :PLOT NO 859, SECTOR-8,
(31) Priority Document No	:NA	GANDHINAGAR 382007 (GUJARAT) Gujarat India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)ANAND KISHORBHAI PATEL
(86) International Application No	:NA	2)SADANAND ANIL NAMJOSHI
Filing Date	:NA	3)PATNI SUSHANT PARESHBHAI
(87) International Publication No	: NA	4)PARMAR MAYURSIN R.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

The proposed Vacuum-Extinguisher Tube is to be made of Vacuum-spacing metals. To be designed in coiled shape. Its both the hollow parts head be capped with plastic or silver paper made Cap/Valves (Fig.l). By removing the Cap/valves from the exhaustive end, it can be connected with the nozzle of the tanker tube to be Vacuumised by creating much more cubic space whereby sucked fire flames may get released through its vertical pipe provided on the top (Fig.2). Besides in Low Pressure Gas Cylinder a deviced valve in the centre of the proposed 5 Centimeter Circumference on the specified spot be made where upon the model Extinguisher Tube being 9 centimeter in height and 2 mm of guage has to envelope the valve including the circumference by setting upon the coiled lines of the neck of round channel raised by 1.5 centimeter. This tube is also provided at its top with the prototype of the base valve (Fig.3).

No. of Pages : 7 No. of Claims : 4

(19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : CAFFEINE BIODEGRADABLE CHEWING GUM FORMULATION AND METHODS OF USING THE SAME.

Т

(51) International classification	:A23G4/12, A23G4/00, A23G4/20	(71) <b>Name of Applicant :</b> <b>1)FARHAD FIROZE MEHTA</b> Address of Applicant :H NO 60 COMFORT GREEN
(31) Priority Document No	:NA	COLONY P.O. MOTILAL NAGAR PIN-462038, BHOPAL,
(32) Priority Date	:NA	(M.P) INDIA Madhya Pradesh India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)PROF. PIYUSH TRIVEDI
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

The present invention related to, biodegradable Medicated, chewing gum drug (MCG) delivery system for self-medication as it is convenient and can be administered discreetly without water for alertness, namely caffeine, in particular, the present invention medicament is formulated by biodegradable corn zein gum base and suitable method thereof.

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

### (19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATIC IMSI SWITCHING FOR INTERNATIONAL ROAMING BASED ON NETWORK REJECTION EVENT

(51) International classification	:G11B 5/00 H04W 12/00	<ul> <li>(71)Name of Applicant :</li> <li>1)RELIANCE JIO INFOCOMM LIMITED Address of Applicant :3rd Floor, Maker Chamber-IV, 222, Nariman Point, Mumbai- 400021, Maharashtra, India Maharashtra</li> </ul>
(31) Priority Document No	:NA	India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)DEVESH CHAUHAN
(86) International Application No	:NA	2)GANESH ARJUN MOTE
Filing Date	:NA	3)VIRAJ DADIA
(87) International Publication No	: NA	4)VINITA RUPANAGUDI
(61) Patent of Addition to Application Number	:NA	5)HIREN PATEL
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

Embodiments of the present disclosure relate to availing at least one service by a user equipment [110] while one of in an international roaming and leaving the international roaming. In a preferred embodiment, a method for automatic IMSI switching while entering and leaving the international roaming, independent of the cause code sent by any operator and can work regardless of the cause code received is disclosed. The method includes replacing of the home IMSI of the user equipment [110] with the global IMSI in an event the at least one network parameter corresponds to the second location and replacing of the global IMSI of the user equipment [110] with the at least one network parameter corresponds to the first location.



No. of Pages : 29 No. of Claims : 13

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : POINT OF CARE SICKL	E CELL TES	T
<ul> <li>(54) Title of the invention : POINT OF CARE SICKLI</li> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> </ul>	E CELL TES :A61K 31/00 :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>(71)Indian Institute of Technology, Bombay Address of Applicant :Powai, Mumbai-400076, Maharashtra, India Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>1)Paul Debjani</li> <li>2)D'Costa Claudy</li> <li>3)Sharma Ochin</li> </ul>
<ul> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	: NA :NA :NA :NA :NA	3)Sharma Oshin 4)Singh Minakshi

(57) Abstract :

The present invention provides a point of care sickle cell test to extract and analyze the morphological features of Red Blood Corpuscles (RBCs)/erythrocytes in an induced hypoxic environment and classify blood samples as normal, sickle cell trait or sickle cell disease (SCD). The present invention also provides formulations, methods, kits, and devices for performing the sickle cell test.



No. of Pages : 28 No. of Claims : 16

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

#### (43) Publication Date : 09/02/2018

# (54) Title of the invention : APPLICATION OF IICW (INTIMATION OF INTENTION OF CASH WITHDRAWAL) TO STOP FRAUDS USING ATM BANKING CARDS AND TO TRAP THE CARD FRAUDSTERS

(51) International classification	:G06Q 20/00	(71)Name of Applicant : 1)YADAV UDAY SAKHARAM
(31) Priority Document No	:NA	Address of Applicant :503 SUKANT SOCIETY SECTOR-3
(32) Priority Date	:NA	CHARKOP KANDIVLI (W) MUMBAI MAHARASHTRA
(33) Name of priority country	:NA	INDIA 400 067 Maharashtra India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)YADAV UDAY SAKHARAM
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

1. IICW is Intimation of Intention of Cash Withdrawal. IICW is a brief communication pattern, to be followed, prior to every cash withdrawal, by the bank and its customer to create 10 minutes onetime online access for him to his bank account. Prior to every cash withdrawal, the bank customer will create for him a onetime online access of 10 minutes to his bank account. a. He will intimate of his intention of cash withdrawal by a missed call or a SMS to his bank. b. Bank will cut that contact and will send OK message on the customers registered mobile phone. c. The customer will resend (return) the message with positive note and thus will create 10 minutes onetime online access for him to his bank account that may be extended to another 10 minutes on request. Thus having created an access to his account, he goes to the ATM and withdraws money at once, following the existing ATM system. After completion of his transactions, his account lapses into a passive/offline mode. IICW may be used to pass on other information like nearby ATM, withdrawal amount etc. 2. IICW works as a trap for adventurous card fraudsters.

No. of Pages : 13 No. of Claims : 3

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : AN ANDROID DEVICE FOR SWITCH ON & OFF OF HOME ELECTRICAL LIGHTS AND APPLICANCES.

(51) International classification	:G06F9/455, G06F3/00, G06F9/44	<ul> <li>(71)Name of Applicant :</li> <li>1)MR. PAWAN MAKHIJA</li> <li>Address of Applicant :B. K. NO. 703, ROOM NO. 15,</li> </ul>
(31) Priority Document No	:NA	HOSPITAL AREA, ULHASNAGAR Maharashtra India
(32) Priority Date	:NA	2)MR. SAGAR MAKHIJA
(33) Name of priority country	:NA	3)MR. PAWAN JAISINGHANI
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MR. PAWAN MAKHIJA
(87) International Publication No	: NA	2)MR. SAGAR MAKHIJA
(61) Patent of Addition to Application Number	:NA	3)MR. PAWAN JAISINGHANI
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

An Android device for switch on & off of home electrical lights and appliances at a remote place consisting of elements of Arduino Nano (clone) Bluetooth Controller (HC-05) Relay Modules -4 channel, 8 channel & 12 channel 15 1K resistor 1 1M resistor TIP 120 P 2010 mofset Transistor 5v DC Power adaptor Coper Clade PCB 3wired Jumpers And the arduino nano clone can be programmed with the Arduino Clone software. A device as claimed in claim 1 in which the Arduino Nano Clone have the specification of micro controller of AT mega 328, Digital I/OPINS of 14 analog input pins of 8 and can be powered via the mini-B USB connection. The Arduino Nano Clone have the specification of micro and can be powered via the mini-B USB connection. The Arduino Nano Clone have the specification of micro controller of AT mega 328, Digital I/OPINS of 14 analog input pins of 8 and can be powered via the Blue tooth (HC-05 module) and the module is connected through TIP 120 P 2010 transistor there bus connection. The open source hardware Arduino Nano clone is used to control home electrical. The Bluetooth module can operate either as a slave device which only accept connections or as a master device which initiates a connection. The 8 channel relay board interfaces 8 relays for switching applications to turn on and off wide range of devices. The device can be connected to unlimited number of devices and capable of customization and the points for controlling the electrical fitting are minimum 1 and maximum unlimited.

No. of Pages : 84 No. of Claims : 10

### (19) INDIA

(22) Date of filing of Application :04/08/2016

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : 1-HYDROXYMETHYL-1,2,2,6-TETRAMETHYL-CYCLOHEXANE AND DERIVATIVES THEREOF AND THEIR USE AS AROMA CHEMICALS

(57) Abstract :

The invention relates to compounds of formula (A) as defined herein, and esters of the compound of formula (A), and ketones of the compound of formula (A). The invention further relates to a method for preparing compounds of formula (A) and esters of the compound of formula (A), and ketones of the compound of formula (A). The invention further relates to the use of at least one compound selected from compounds of formula (A) and the esters of a compound of formula (A) and the ketones of a compound of formula (A) and compound of formula (D) as aroma chemical.

No. of Pages : 43 No. of Claims : 24

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A PROCESS AND A SYSTEM FOR IMPROVED GASIFICATION OF A FEEDSTOCK TO PRODUCE SYNTHESIS GAS

#### (57) Abstract :

The present disclosure relates to a process and a system for producing synthesis gas. The carbonaceous feedstock is gasified, in the presence of at least one of oxygen and steam, in a first reactor to obtain a gaseous mixture comprising H2, CO, CH4, CO2, H2O, tar and char. The gaseous mixture is treated in a second reactor, in the presence of a catalyst, to obtain synthesis gas. The system comprises a first reactor, a connecting conduit, a second reactor, at least one cyclone separator, at least one heat exchanger and at least one synthesis gas filter unit. The process and the system of the present disclosure are capable of producing synthesis gas with comparatively higher conversion of the unreacted char.



No. of Pages : 31 No. of Claims : 17

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

### (54) Title of the invention : HOMEOPATHY BASED FORMULATION AND A PROCESS FOR PREPARING THE SAME

(51) International classification	:A61K 39/00	(71)Name of Applicant : 1)SHAH Rajesh
(31) Priority Document No	:NA	Address of Applicant : Life Force Center, 415, Krushal
(32) Priority Date	:NA	Commercial Complex, 4th Floor, Above Shopper's Stop, G. M.
(33) Name of priority country	:NA	Road, Chembur, Mumbai-400089, Maharashtra, India
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)SHAH Rajesh
(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 homeopathy based formulation. The homeopathy based formulation comprises at least one potentized mixture of malaria nosode, and a vehicle. The malaria nosode can be obtained from at least one malaria parasite selected from the group consisting of Plasmodium falciparum, Plasmodium malariae, Plasmodium ovale, Plasmodium vivax, and combinations thereof. The ratio of the potentized mixture of malaria nosode to the vehicle is in the range of 1:9 for 1X potency and 1:99 for 1C potency. The present disclosure also provides a process for preparing a homeopathy based formulation. The homeopathy based formulation of the present disclosure can be used in the treatment of malaria.

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

(22) Date of filing of Application :04/08/2016

(54) Title of the invention : BUTTER CHURNING DEVICE			
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:A01J15/00, A01J15/12 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant : <ol> <li>Mahesh Suresh Gorde, Akshay Subhashrao Kale and</li> <li>Pawan Dhanraj Lakade <ul> <li>Address of Applicant :Mahesh Suresh Gorde, Pimpalgaon</li> <li>road, ward no.1, Butle layout near N.P.school YAVATMAL,</li> </ul> </li> <li>445001, Maharashtra, INDIA, Akshay Subhashrao Kale, At post</li> <li>Lohogaon, Tq: Nandgaon (kh), Dist: Amravati 444701,</li> <li>Maharashtra, INDIA, and Pawan Dhanraj Lakade, At post</li> <li>Kamargaon, Tq: Karanja (Iad), Dist: Washim 444110,</li> <li>Maharashtra, INDIA Maharashtra India</li> <li>(72)Name of Inventor : <ul> <li>Mahesh Suresh Gorde</li> <li>Akshay Subhashrao Kale</li> <li>Pawan Dhanraj Lakade</li> <li>Darshna Uttamrao Pimpalkar</li> <li>Prakash Diwakar Meshram</li> <li>Vishal Sitaram Aru</li> <li>Shubham Vinodrao Mogarkar</li> <li>Gopalkrushna Avinash Nawale</li> <li>Pranay Krushnarao Tikhe</li> <li>Sachin Marotrao Moghe</li> <li>Atul Bhaskarrao Borade</li> <li>Vishal Rameshrao Milmile</li> </ul> </li> </ol></li></ul>	
<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:A01J15/12 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>Lohogaoh, 1q: Nahugaoh (kh), Dist: Ahiravan 444701,</li> <li>Maharashtra, INDIA, and Pawan Dhanraj Lakade, At post</li> <li>Kamargaon, Tq: Karanja (Iad), Dist: Washim 444110,</li> <li>Maharashtra, INDIA Maharashtra India</li> <li>(72)Name of Inventor : <ol> <li>Mahesh Suresh Gorde</li> <li>Akshay Subhashrao Kale</li> <li>Pawan Dhanraj Lakade</li> <li>Darshna Uttamrao Pimpalkar</li> <li>Prakash Diwakar Meshram</li> <li>Vishal Sitaram Aru</li> <li>Shubham Vinodrao Mogarkar</li> <li>Gopalkrushna Avinash Nawale</li> <li>Pranay Krushnarao Tikhe</li> <li>Sachin Marotrao Moghe</li> <li>Atu Bhaskarrao Borade</li> <li>Vishal Rameshrao Milmile</li> <li>Ajinkya Ravindra Kottawar</li> </ol> </li> </ul>	

(57) Abstract :

A butter churning device is disclosed. The butter churning device according to this invention comprises a drum adapted to be disposed into a container. A driver shaft adapted to be rotated by a prime mover is provided to rotate at least one driven shaft disposed in the drum. A support plate is mounted at the top end of the drum such that to support the driver shaft and the driven shaft(s) rotatably therewith. Plurality of blades secured with the driver shaft and driven shaft are provided to generate churning action during operation of the device.

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

#### (19) INDIA

(22) Date of filing of Application :04/08/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : FOUR-STEP THERMAL AGING METHOD FOR IMPROVING ENVIRONMENTALLY ASSISTED CRACKING RESISTANCE OF 7XXX SERIES ALUMINIUM ALLOYS

(51) International classification:C22C1/04(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(33) Name of priority country:NA(86) International Application No:NAFiling Date:NA(87) International Publication No: NA(61) Patent of Addition to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NAFiling Date:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Godrej &amp; Boyce Mfg. Co. Ltd Address of Applicant :Pirojshanagar, Vikhroli , Mumbai-Maharashtra India</li> <li>2)Indian Institute of Technology, Bombay</li> <li>(72)Name of Inventor :</li> <li>1)Krishnan Ajay</li> <li>2)Vngaranahalli Srinivasan Raja</li> <li>3)Vaidya Surendra Muralidhar</li> </ul>
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(57) Abstract :

The thermal aging is carried out by treating the alloys at a temperature of 120 to 130oC for 0.3 to 0.5h, water quenching the alloys to a temperature of 25 to 27oC and further treating the alloys at a temperature of 80 to 95oC for 100 to 120h and at a temperature of 120 to 130 oC for 20 to 24h and at a temperature of 155 to 160oC for 1 to 5h and air cooling the alloys to room temperature, sequentially.



No. of Pages : 30 No. of Claims : 3
(22) Date of filing of Application :05/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : LOW PROFILE, ULTRA WIDEBAND MICROSTRIP ARRAY ANTENNA SANDWICHED BETWEEN REACTIVE IMPEDANCE SURFACES

2, (71)Name of Applicant :
00, 1)TERNA ENGINEERING COLLEGE
Address of Applicant :PLOT NO 12 SECTOR 22, OPP
NERUL RAILWAY STATION, PHASE-II, NERUL (W) NAVI
MUMBAI MAHARASHTRA INDIA PIN -400706 Maharashtra
India
(72)Name of Inventor :
1)SHISHIR DIGAMBAR JAGTAP
2)RAJIV KUMAR GUPTA
3)SHILPA KHARCHE
4)VIJAYPAL YADAV

#### (57) Abstract :

This invention proposes a Compact, directive and broad band antenna design technique. The proposed antenna structure developed systematically, it consist of three layers which are metallic ground plane, suspended dielectric layer with microstrip array (2x2) antenna on one side and reactive impedance surface (RIS) on other side and the third layer is a dielectric layer placed above the suspended MSA array with merely RIS at the bottom side. The suspended microstrip array antenna is sandwiched between reactive impedance surfaces (RISs) forming a RIS cavity of height less than 0.1A0, where, X0 is the free space wavelength. The RIS for the proposed antenna is composed of metallic square patches with size and spacing much smaller than free space wavelength. Therefore, when MSA array is excited by coaxial probe feed, causes multiple reflections between two RISs. These rays have different path length. As the distance between two RISs is very small compare to wavelength, all these rays between two RISs have very small phase difference, resulting in multiple resonances at nearly same frequencies, leading to a low profile, high gain and wideband antenna. Therefore, the double layer RIS cavity acts as a phase correction cavity which is used for a compact, high gain and broad band antenna design. The wide bandwidth is achieved using RIS and high gain is achieved using MSA array antenna. The side view of the proposed structure is shown below, where h = 1 mm. The proposed structure provides a gain of 12.3 dBi bandwidth of 23.8 %, Side lobe level less than -20dB and front to back lobe ration greater than 20 dB. The proposed antenna is designed fabricated and tested and its dimensions are 2X0 x 2X0 x 0.1 X0 i.e. 100 x 100 x 5.2 mm3.



No. of Pages : 15 No. of Claims : 6

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : PROCESS FOR THE PREPARATION OF HEXAHYDROCYCLOPENTA[C]PYRROL-5(1H)-ONE AND INTERMEDIATES THEREOF •

(51) International classification	:C07D209/52, C07K5/02	(71)Name of Applicant : 1)CADILA HEALTHCARE LIMITED
(31) Priority Document No	:NA	Address of Applicant : Zydus Tower, Satellite Cross Roads,
(32) Priority Date	:NA	Ahmedabad 380015, Gujarat, India Gujarat India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)DESAI, Ranjit
Filing Date	:NA	2)BAHEKAR, Rajesh
(87) International Publication No	: NA	3)GOSWAMI, Amitgiri
(61) Patent of Addition to Application Number	:NA	4)DAVE, Bhushan
Filing Date	:NA	5)SHAH, Hardik
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

The present invention provides an improved process for the preparation of hexahydrocyclopenta[c]pyrrol-5(1H)-one compound of formula (I) and intermediates thereof.

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

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : A METHOD AND SYSTEM FOR FACILITATING OPTIMIZATION OF ENERGY IN A DISTRIBUTED ENVIRONMENT

(51) International classification:H02J3/00(31) Priority Document No:NA(32) Priority Date:NA(33) Name of priority country:NA(36) International Application No:NAFiling Date:NA(87) International Publication No:NA(61) Patent of Addition to Application Number:NAFiling Date:NA(62) Divisional to Application Number:NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Awadhesh KUMAR Address of Applicant :32 Pyramid Tower, 29 Jayprakash Road, S. No. 82, Versova Andheri (West), Mumbai- 400061, Maharashtra, India Maharashtra India</li> <li>2)Biswadip PAUL</li> <li>(72)Name of Inventor :</li> <li>1)Awadhesh KUMAR</li> <li>2)Biswadip PAUL</li> </ul>
(62) Divisional to Application Number :NA Filing Date :NA	

#### (57) Abstract :

Disclosed is a real-time decision support system for facilitating optimization of in a distributed environment. A data capturing module for capturing data from a plurality of data sources at a predefined interval of time. The data is captured pertaining to a specific domain and a specific geographical area. A forecasting module for forecasting demand of energy to be consumed by energy utilities in the specific domain and the geographical area upon analyzing the data. A position gap determination module for determining a position gap indicating a difference between the demand of energy and supply of energy. An energy optimization module for identifying at least one energy pool, from a plurality of energy pools, for retrieving a deficit of the demand of energy and providing the deficit of the demand of energy retrieved from the at least one energy pool in order to bridge the position gap.

No. of Pages : 28 No. of Claims : 11

#### (19) INDIA

(22) Date of filing of Application :08/08/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : EMBOSS TYPE RADIATOR	
(51) International classification :F28D1/02	(71)Name of Applicant :
(31) Priority Document No :NA	1)ANAND K. PATEL
(32) Priority Date :NA	Address of Applicant :PLOT NO. 859, SECTOR 8,
(33) Name of priority country :NA	GANDHINAGAR-382007, GUJARAT, INDIA. Gujarat India
(86) International Application No :NA	2)SADANAND A. NAMJOSHI
Filing Date :NA	(72)Name of Inventor :
(87) International Publication No : NA	1)ANAND K. PATEL
(61) Patent of Addition to Application Number :NA	2)SADANAND A. NAMJOSHI
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

The radiator is the most essential component of automobile engine and the more efficient design of the same will improve the cooling effect of engine. The objective of present work is to design and fabricate such radiator which will enhance the heat transfer rate and more retatintion period by emboss shape on the surface of radiator.

No. of Pages : 9 No. of Claims : 2

#### (19) INDIA

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : MOISTURE FREE VORTEX FLOW AIR COOLER.

(51) International allocation	:B04C	(71)Name of Applicant :
(51) International classification	5/02	1)ANAND K. PATEL
(31) Priority Document No	:NA	Address of Applicant :PLOT NO.859, SECTOR 8,
(32) Priority Date	:NA	GANDHINAGAR-382007, GUJARAT, INDIA. Gujarat India
(33) Name of priority country	:NA	2)SADANAND A. NAMJOSHI
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)ANAND K. PATEL
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	
		•

(57) Abstract :

NA



No. of Pages : 8 No. of Claims : 3

#### (19) INDIA

(22) Date of filing of Application :08/08/2016

(43) Publication Date : 09/02/2018

(54) Title of the invention : CONICAL SOLAR WATER HEATER			
	:F24J2/04,	(71)Name of Applicant :	
(51) International classification	F24J2/50,	1)ANAND K. PATEL	
	F24J2/46	Address of Applicant :PLOT NO.859, SECTOR 8,	
(31) Priority Document No	:NA	GANDHINAGAR-382007, GUJARAT, INDIA. Gujarat India	
(32) Priority Date	:NA	(72)Name of Inventor :	
(33) Name of priority country	:NA	1)ANAND K. PATEL	
(86) International Application No	:NA		
Filing Date	:NA		
(87) International Publication No	: NA		
(61) Patent of Addition to Application Number	:NA		
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

#### (57) Abstract :

Alternative energy sources posses ample amount of energy which is available at free cost. The solar energy is one such energy which can be used for cooking, heating and power generation purpose and to utilize solar energy for water heating with more compact shape like conical shape coil to increase the enhancement of heat transfer and turbulence in the flow is the objective of present work.

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

### (19) INDIA

(22) Date of filing of Application :19/12/2016

(43) Publication Date : 09/02/2018

# (54) Title of the invention : ROLLED WINDOW FRAME OF AUTOMOBILE B-PILLAR, ROLLED WINDOW FRAME ASSEMBLY OF B-PILLAR, AND VEHICLE SIDE DOOR

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:B60J10/02 :102016114544.0 :05/08/2016 :Germany :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Borgward Trademark Holdings GmbH Address of Applicant :Kriegsbergstrasse 11 70174 Stuttgart Germany Germany</li> <li>(72)Name of Inventor :</li> <li>1)WANG Dongning</li> <li>2)LI Jianchun</li> </ul>
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(57) Abstract :

The present invention discloses a rolled window frame of automobile B-pillar, a rolled window frame assembly of B-pillar, and a vehicle side door. The rolled window frame of automobile B-pillar comprises a window frame body (1) and a connecting segment connected to the window frame body (1), an end of the connecting segment away from the window frame body (1) is capable of being fixed to the B-pillar trim panel (3), the window frame body (1) and the connecting segment are an integral component formed in one piece. By designing the window frame body (1) and the connecting segment as an integral component, the production efficiency of the window frame is improved, and the manufacturing cost is lowered, while ensuring normal using of the rolled window frame of automobile B-pillar.

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

(22) Date of filing of Application :20/06/2016

#### (54) Title of the invention : DUAL FLUSH FOR WATER TANK IN A TOILET SYSTEM

:E 3/ (51) International classification 9/ E0 3/	E03D /00 03D /02 03D /12	<ul> <li>(71)Name of Applicant :</li> <li>1)JAKKAN SHRINIVAS AGGAYYA Address of Applicant :FLAT 17/B21, GIRIDHAR ANGAN, WARJE, PUNE-411052, MAHARASHTRA, INDIA.</li> <li>Maharashtra India</li> <li>2)KALE SANDIP ACHUTRAO</li> </ul>
(31) Priority Document No :N	NA	3)GHAGARE VISHNU BAPU
(32) Priority Date :N	NA	(72)Name of Inventor :
(33) Name of priority country :N	NA	1)JAKKAN SHRINIVAS AGGAYYA
(86) International Application No :N	NA	2)KALE SANDIP ACHUTRAO
Filing Date :N	NA	3)GHAGARE VISHNU BAPU
(87) International Publication No : 1	NA	
(61) Patent of Addition to Application Number :N	NA	
Filing Date :N	NA	
(62) Divisional to Application Number :N	NA	
Filing Date :N	NA	

#### (57) Abstract :

Dual flush system for toilets to regulate partial amount of water may be used to flush the bowl. To choice a desired flush volume of water from said tank to flush solids or liquids, depending on the operation of two flush lever or single lever, compromising: two siphon valve, primary for full flush and auxiliary for partial flush. Water outlet housing integrates both siphon at upper and lower end. The volume of water discharge from a tank in consideration of economizing the use of water.



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

### (19) INDIA

(22) Date of filing of Application :04/10/2015

(43) Publication Date : 09/02/2018

(54) Title of the invention : MECHANISM FOR VARYING VALVE TIMING AND VALVE LIFT IN INTERNAL COMBUSTION ENGINE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No</li> </ul>	:F01L 13/00 :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Vishesh Kumar</li> <li>Address of Applicant :11/1, Type 4, Rangehills Estate, Pune-</li> <li>411020, M.S. India Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>1)Vishesh Kumar</li> </ul>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date : (62) Divisional to Application Number	:NA •NA	
Filing Date :	:NA	

#### (57) Abstract :

Abstract Disclosed is a mechanism for varying valve timing in 4 stroke internal combustion engine. The mechanism creates a simple cam phasing mechanism which works with greater resolution and accuracy. Furthermore, the mechanism continuously vary phase angle to open or close the valve earlier or later relative to crankshaft. Figure 1

No. of Pages : 14 No. of Claims : 4

(22) Date of filing of Application :01/06/2016

#### (43) Publication Date : 09/02/2018

(54) Title of the invention : GAMING CONSOLE FOR HANDICAP			
(51) International classification	:A63F 13/23 A63F 13/323	(71) <b>Name of Applicant :</b> <b>1)SWAPNIL ANIL TAYADE</b> Address of Applicant :4,DEODATTA APPTS, ANAND NAGAR GANGAPUR ROAD NASHIK PIN 422013	
<ul> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number</li> </ul>	:NA :NA :NA :NA :NA :NA : NA	Maharashtra India (72)Name of Inventor : 1)SWAPNIL ANIL TAYADE 2)VIKAS KAILAS VARPE 3)SHUBHAM BABURAO SONAWANE	
<ul><li>(61) Patent of Addition to Application Number</li><li>Filing Date</li><li>(62) Divisional to Application Number</li><li>Filing Date</li></ul>	:NA :NA :NA :NA		

#### (57) Abstract :

The Gaming console for handicap is an system which will enable the handicap person to carry out the similar action of targeting/aiming like a natural person. This is done through mapping the neck movement up, down, left and right. The mapping is done using the sensor ADXL 335 which is a accelerometer. After mapping the neck movements its giving to the controller [ARDUINO 328] AND then to the CNC shield [A4988]. The CNC shield is responsible for the movement of the motors. Motor(1) is for horizontal movement i.e. left and right. The motor (2) is for vertical movement on which the firing assembly is placed. The firing assembly is currently LED and buzzer for indication. As the target is fitted the myoware sensor is highly sensitive. It has EGG pads for attachments. Stepper motors are NEMA 17. The complete assembly is manufactured. The shaft attached to motor (1) will move the motor(2) with respect to the neck movement. Once the target is fix firing can be done. This is achieved only through small movements and even handicap person able to do the action of targeting. The major advantage of system is it can be used for targeting system in aircrafts too [military application]. This system is very easy and efficient to work. Though some changes are acceptable.



No. of Pages : 18 No. of Claims : 4

(22) Date of filing of Application :05/08/2016

#### (43) Publication Date : 09/02/2018

#### (54) Title of the invention : APPARATUS FOR MICROFINISHING AND METHOD THEREFOR

(51) International classification B B B 19	<ul> <li>(71)Name of Applicant :</li> <li>1)Grind Master Machines Pvt. Ltd.</li> <li>Address of Applicant :B10/B11/B14, MIDC, Railway Station,</li> <li>Aurangabad - 431005 Maharashtra, India Maharashtra India</li> <li>(72)Name of Inventor :</li> <li>9/00</li> <li>Milind Dinkar Kelkar</li> </ul>
(31) Priority Document No :N	NA
(32) Priority Date :N	NA
(33) Name of priority country :N	NA
(86) International Application No :N	NA
Filing Date :N	NA
(87) International Publication No : 1	NA
(61) Patent of Addition to Application Number :N	NA
Filing Date :N	NA
(62) Divisional to Application Number :N	NA
Filing Date :N	NA

#### (57) Abstract :

Disclosed invention relates to an apparatus (100) and a method for microfinishing of diameters and adjacent faces simultaneously of a component (10) such as crankshafts. The apparatus (100) comprises a contact tooling (60), a film (20) and a microfinishing arm unit. The microfinishing arm unit closes its arm around the diameter of the component (10). At least two pressurizing ports (50) of the contact tooling (60) are activated with air supply; thereby expanding at least two face polishing inserts (40) of the contact tooling (60) to ensure proper contact with the faces of the component (10). The component (10) is rotated and oscillated for creating surface finish on the diameters and the faces due to abrasive action between the film (20) and the surface of the component (10). The method ensures consistent results of face polishing. The apparatus (100) facilitates simultaneous microfinishing operation to reduce cycle time. Figure 2

No. of Pages : 16 No. of Claims : 8

(22) Date of filing of Application :05/08/2016

#### (54) Title of the invention : AN ECO-FRIENDLY METHOD FOR SANITIZING AQUACULTURE CAGES

:I 1 (51) International classification 1 B 1 1	6B (71) <b>Nam</b> 22 <b>1)GAR</b> 5B Addr 10 Chinchw 5B India 28 (72) <b>Nam</b>	e of Applicant : WARE-WALL ROPES LIMITED ess of Applicant :Plot No.11, Block D-1, MIDC, ad, Pune - 411 019, Maharashtra, India. Maharashtra e of Inventor :
(31) Priority Document No :1	1)RAU	T, Sanjay Vasudeo
(32) Priority Date :1	2)GUN	ARI, Nikhil
(33) Name of priority country :1	<b>x</b>	
(86) International Application No :1	<b>x</b>	
Filing Date :1	<b>L</b>	
(87) International Publication No :	4	
(61) Patent of Addition to Application Number :	<b>x</b>	
Filing Date :	<b>x</b>	
(62) Divisional to Application Number :1	<b>x</b>	
Filing Date :1	<b>x</b>	

(57) Abstract :

The present invention describes a sanitation device comprising a fabric that is used to sanitize  $\cdot$ /remove all stages of the sea lice from inside the cage during installation of lice skirts  $\cdot$  or during a well boat sea lice bath treatment or during a cage swap. Further, the sanitation device is placed inside the cage and does not skirt the cage.



No. of Pages : 13 No. of Claims : 11

#### (19) INDIA

(22) Date of filing of Application :06/08/2016

(43) Publication Date : 09/02/2018

#### (54) Title of the invention : REDUCTION OF VA, COD, BOD, TKN IN EXCESS SUGAR CONDENSATES AND AMMONIA IN **BIOMETHANATED CONDENSATES**

(51) International classification	:C02F 1/00	(71)Name of Applicant : 1)Waindeskar Vishal Vasantrao
(31) Priority Document No	:NA	Address of Applicant :ORAIPL, Ozone Research Application
(32) Priority Date	:NA	(I) Pvt. Ltd. 902, Ozone House, Khare Town,
(33) Name of priority country	:NA	Dharampeth,Nagpur-440010.(M.S.) Maharashtra India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Waindeskar Vishal Vasantrao
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract :

Substantial quantities of ethanol & other volatile & non volatile organic substances gets mix up in the condensates from the evaporator set in sugar mill & contribute to the VA, BOD, COD & TKN to the sugar condensates & consequently exacerbate environmental problems if not treated properly. The advantage of the above process is that it is highly economical in terms of operation cost expenditure & also from the point of view of operational expenditure compared to the biological system or other technologies available in the market. The further advantage of the process is that it is available from the first day of crushing operation & ensures the reuse of treated wastewater which is not certain with the biological system if opted for such application. Also present invention addresses the issue of ammonia removal from the bio-methanated condensate using the sulfate radical which can be generated by using per sulfate anion.

No. of Pages : 15 No. of Claims : 10

### **CONTINUED TO PART-2**