पेटेंट कार्यालय
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

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

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

6TH MARCH, 2020

CONTENTS

THE PATENT OFFICE
KOLKATA, 06/03/2020
Address of the Patent Offices/Jurisdictions
The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

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

Website: www.ipindia.nic.in
www.patentoffice.nic.in

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

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

पेटेंट कार्यालय

कोलकाता, दिनांक 06/03/2020

• कार्यालयों के क्षेत्राधिकार के पते

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

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

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 ।

SPECIAL NOTICE

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

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

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

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

SPECIAL NOTICE

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

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

SPECIAL NOTICE

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

Early Publication:

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201811044295 A
(19) INDIA
(22) Date of filing of Application :24/11/2018
(43) Publication Date : 06/03/2020

(54) Title of the invention : A SOLAR AIR HEATING CUM SPACE HEATING COLLECTOR SYSTEM

(51) International classification	:F24S 20/40
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)Naveen Gahlawat
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(72)**Name of Inventor :**
1)Naveen Gahlawat

(57) Abstract :
The present invention claims a solar air heating apparatus comprises of a vacuum tube based manifold wherein the vacuum tube based manifold comprises of non-vacuum tubes and vacuum tubes in a concentric arrangement, a fan wherein the fan is connected to the entrance of the manifold and a collection chamber wherein the collection chamber is connected to the other end of the manifold. The present invention also claims a process for heating air wherein the air is passed through the vacuum tubes, wherein the air flowing through the vacuum tubes is heated by the solar rays, the heated air is passed through the vacuum tubes by means of the fan into the collection chamber.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911006705 A

(19) INDIA

(22) Date of filing of Application :20/02/2019

(43) Publication Date : 06/03/2020

(54) Title of the invention : SAFETY INTRODUCER NEEDLE

(51) International classification :A61M0025060000,A61B0090000000,A61M0005320000,A61B0017340000,A61M0005340000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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Address of Applicant :Plot No. 105, Sector 59, HSIIDC Industrial Area, Faridabad, Haryana 121004, INDIA Haryana India

(72)**Name of Inventor :**

1)RISHI BAID

(57) Abstract :

A safety introducer needle assembly (10) having an introducer needle (12) defining an axial direction (A), the needle (12) having an outer surface (24) and an inner surface (26) defining a lumen (28) which extends along the length of the needle (12) in the axial direction (A); the outer surface (24) defined by a wall of the needle (12) forming a needle shaft (14) that extend along the axial direction (A) having a distal end (16) and a proximal end (18), wherein the proximal end (18) connected to a needle hub (22) and the distal end (16) comprising a sharp bevelled tip (20) wherein the needle (12) has a roughened or echogenic region (34) having echogenic features (36); and a needle tip protector (40) housed in a safety barrel (42) and slidably arranged on the needle shaft (14) from moving beyond the needle tip (22) and wherein the safety barrel (42) is engageably attached to the needle hub (22).

No. of Pages : 36 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.201911030945 A

(43) Publication Date : 06/03/2020

(54) Title of the invention : A PROTECTIVE WEARABLE FOR SAFETY OF A WEARER •

(51) International classification :F41H0013000000,A41D0013000000,G08B0005000000,B60R0021013000,H04W0004900000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)**Name of Applicant :**

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(72)**Name of Inventor :**

1)Ananya Luthra

(57) Abstract :

The present invention provides a safety garment or a safety wearable for providing protection to a person against an attack, anytime anywhere. The safety garment is equipped with multiple safety devices that can be activated within seconds, at a time of emergency, and help in counter-attacking an attacker in such situations. In an embodiment, the safety garment is a jacket. In an embodiment, the safety garment is equipped with safety devices, including, but not limited to a fire emission device, a GPS tracker, an anesthesia device, a camera such as a night vision spy camera, an electric shock producing device, and the like. All the safety devices are activated quickly to protect a wearer. The devices like GPS tracker, spy cam may be activated all the time, to provide live tracking of the wearer and to record video or audio live. Fig.l

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911034580 A

(19) INDIA

(22) Date of filing of Application :28/08/2019

(43) Publication Date : 06/03/2020

(54) Title of the invention : DISEASE DETECTION DEVICE

(51) International classification :G06Q0030020000,G06F0021560000,G06K0009620000,G06T0007700000,G06N0005020000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(72)**Name of Inventor :**

1)Gagandeep Bhatia

2)Dr.Gagandeep

3)Dr.Manish Mahajan

(57) Abstract :

A device for disease identification by observing tongue symptoms using deep leaning techniques, comprising a data storage module associated with the device for storing images, a data input module connected to the storage module for capturing and transferring an image of the tongue for analyzing process, a data segmentation module associated with the data input module for extracting predefined area of the tongue from the image, a data analyzing module connected to the segmentation module for analyzing the image of the tongue and determining infected and uninfected parts of the tongue, a data classification module connected to the analyzing module for classifying the analyzed parts of the image to determine the diseases and area infected by the diseases, an output module associated with the classification module for showing information about analyzed image of the tongue to the user. Ref Figure 1

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911035146 A

(19) INDIA

(22) Date of filing of Application :31/08/2019

(43) Publication Date : 06/03/2020

(54) Title of the invention : FUTURO COOLING SYSTEM WITH INTEGRATED IOT

(51) International classification :F28F0013000000,F28F0003020000,F25B0021020000,F25B0023000000,B60H0001000000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)**Name of Applicant :**

1)SANGAM SAHU

Address of Applicant :Sangam Sahu, School of Aeronautics, Neemrana, Alwar, Rajasthan, 301705 Rajasthan India

(72)**Name of Inventor :**

1)SANGAM SAHU

(57) Abstract :

Todays HVAC systems is based on the vapor compression cycle. This causes high electricity consumption and additionally, the cooling agent used is also toxic and environmentally hazardous. To overcome this problem Futuro Cooling System with Integrated IOT is designed. The main component of proposed air conditioning system is indoor unit, outdoor unit, cooling module, evaporator unit, power distribution unit & condenser unit. In our cooling solution, we are completely removing the conventional vapour compressor with our newly developed cooling module. This cooling module is the heart of the air conditioning system which is helping for cooling and heating of the cooling agent and also it is work like a reservoir tank. The cooling model is a hexagonal structure in which long fin structure and thermal cooler are present at each wall. We are using the cold side of the thermal cooler to conduct the cold to the fins and cooling agents. Similarly, we are using inhibited Ethylene Glycol as cooling agent which have higher thermal conductive property. In the inner fin structure, the cooling agent will be cool down up-to -3° to -7°C. Then the coolant is pumped by the powerful hydraulic pump through the indoor evaporator unit. In the indoor unit, the ambient hot air will be cooled down by the evaporator and the cooled air is circulating by the blower. As output we can get about 16 to 22-degree centigrade cold air. Similarly, the hot side of the thermal cooler will be cooled down by the small metal cube which is attached at each surface and coolant. The coolant transfers the heat from the hot side the condenser unit by help of pump. In the condenser unit the coolant is cooled down to room temperature by circulating on it. A blower fan will be present inside the outdoor unit to cooldown the condenser unit to surrounding. The whole system is consuming about 600wattage of energy.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911044962 A

(19) INDIA

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

(43) Publication Date : 06/03/2020

(54) Title of the invention : ANTI-TUMBLING CUP

(51) International classification :A47G0029093000,A61F0002320000,A61F0002460000,A61K0035150000,B24B0037340000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)**Name of Applicant :**

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2)BEIJING TIANCHUANG HAORUI TRADING CO. LTD.

(72)**Name of Inventor :**

1)Bharat Narula

2)Xie, Yunxu

(57) Abstract :

This invention relates to an anti-tumbling cup and in particular, this invention relates to an anti-tumbling cup which is applied to a water cup that prevents the cup from tumbling or being knocked over, and to avoid damage to surrounding documents or electronic devices. More particularly, this present invention relates to an anti-rumbling cup wherein the anti-rumbling assembly may be fixedly connected to the bottom of the cup by an engagement connection or a screw connection. Furthermore, this invention also relates to an anti-rumbling cup which has the beneficial effects of having convenient to move and carry and having safely, low in cost and is convenient to popularize.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/11/2019

(21) Application No.201911047916 A

(43) Publication Date : 06/03/2020

(54) Title of the invention : NUTRIENT ENRICHED PELLETS

(51) International classification :A23K0040200000,A23K0050100000,A23K0010300000,A23K0020158000,A23L0007100000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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1)Neway Renewable Energy [Bhatinda] Pvt. Ltd

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(72)**Name of Inventor :**

1)Dr MOHINDER PAUL SINGH BAKSHI

2)r JASPAL SINGH HUNDAL

3)Dr MANJU WADHWA

4)MUSHTAQ M. AHMED

(57) Abstract :

The present invention claims a nutrient enriched pellet comprising of a roughage consisting of rice straw and hay combination, a dry leguminous fodder which could be alfalfa, a concentrate mixture comprising of maize, wheat, de-oiled mustard cake, mustard cake, soybean meal, rice bran, de-oiled rice bran, mineral mixture and salt and a binder which is molasses or guar gum or a combination thereof.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011001776 A

(19) INDIA

(22) Date of filing of Application :15/01/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : TOWARDS INCREASING THE VEHICLE DIESEL ENGINE EFFICIENCY UPTO 15 %

(51) International classification :F02B0003060000,F02M0025022000,F02B0041000000,F02M0026150000,F02B0033400000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(72)**Name of Inventor :**
1)ARORA, Atam Tej

(57) Abstract :

All manufacturers of diesel vehicles (4-wheelers or higher) claim that the engine of their vehicle would work at better efficiency if the owners follow the recommendations given in their instruction manuals. There remains different mileage figure for the same capacity of vehicle engine designed by different manufacturers. They would also not part with their know-how in order to prevent others from working on it. An alternative which can be thought of as a means to increase the engine efficiency is to preheat the fuel before it goes to engine. Though this contributes to the purpose, but needs inputs of extra energy. As this does not increase efficiency to an appreciable extent, this is not a viable proposition. However, as per this present invention, it has been found that a lot of scope still exists for further improving the engine efficiency. Herein new designs have been worked out in order to further increase vehicle diesel engine efficiency. There have been considered two modes of increasing the efficiency of vehicle diesel engines- viz. (i) by internal recovery/conserving of heat by redesign of silencer in order to utilise it back in the engine and (ii) by designing the optimum advance of fuel injection; these two together leading to 11-15 % increase in engine efficiency.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011002264 A

(19) INDIA

(22) Date of filing of Application :18/01/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : METHOD OF PREPARATION OF CONPLAS PAVER BLOCK UTILIZING WASTE POLYTHENE BAGS

(51) International classification :C08G0018750000,E01C0019480000,A61K0031555000,C04B0028020000,C08J0005000000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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2)Dr. Trilok Gupta

(72)**Name of Inventor :**

1)Dr. Trilok Gupta

2)Dr. Sandeep Chaudhary

3)Dr. Ravi Kumar Sharma

4)Dr. Sudhir Jain

(57) Abstract :

The present invention relates to a method of preparation of paver block utilizing waste polythene bags. The object of the proposed invention is to utilize sustainable waste material and analogously minimizing the consumption of fine aggregate by replacing it with waste polythene bags in shredded form. The composition for preparation of sustainable conplas paver blocks comprises of cement (17.15%, 416.67 kg), fine aggregate (26.79%, 650.95kg), coarse aggregate (48.15%, 1170kg), waste polythene bags (1.71%, 41.55kg) and water (6.19%, 150.5kg) for production of one cubic meter concrete. Conplas paver blocks have unique feature of high impact resistance and energy absorption capacity. Following invention is described in detail with the help of Figure 1 of sheet 1 showing schematic presentation with dimensions of the sustainable conplas paver block.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011002684 A

(19) INDIA

(22) Date of filing of Application :21/01/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : SYSTEM AND METHOD FOR ACCREDITING VEHICULAR EMISSIONS

(51) International classification :H04L0029060000,G06Q0030000000,H04B0007185000,B60R0016037000,G06F0021570000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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2)SHARMA, Anjali

(72)**Name of Inventor :**

1)SHARMA, Neeraj

2)SHARMA, Anjali

(57) Abstract :

The present disclosure provides a system and a method for accreditation of vehicular emissions of user vehicles. The accreditation system 102 receives a first set of data packets from a first computing device 120, where the first set of data packets is associated with a request to accredit the user vehicle 130, and determines a first location associated with the received first set of data packets. The accreditation system 102 receives from a plurality of accrediting vehicles 106, corresponding current state of availability, current location and type of accreditation provided by each of the plurality of accrediting vehicles 106, and accordingly, the nearest, available and suitable accrediting vehicle 106 is selected to be deployed based on the determined location, where the deployed accrediting vehicle 106 generates an accreditation report for the user vehicle 130 based on emission attributes of the user vehicle 130.

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006616 A

(19) INDIA

(22) Date of filing of Application :15/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : CONVERTING BIOMASS INTO BIODEGRADABLE UTILITY PRODUCTS

(51) International classification :C05F0017000000,A01K0067033000,G05B0013020000,C12N0009240000,C05F0009040000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(72)**Name of Inventor :**

1)ARPIT GUPTA

(57) Abstract :

(A) - State of the Art and Utility The Whole initiative projected has been planned for a ecofriendly recycling of the plant waste for general utility means like food packaging, showpieces and even in creation of decorative drawing room art - pieces too with further bright expansion scopes. And later the residue left over through biodegradation (vermiculture methodology) to produce organic manure for use in home kitchen gardening and flowering pots. This way plant waste has been targeted for better use and recycled for the most effective residue conversion. It is the most eco friendly, convenient, cost effective, less hazardous and a softly welcome. (B) - The Economics The project has been considered taking care of availability rather scavenging of the plant waste employing usually practiced physical method and minimum of the state of art facility. (C) - A Significant Issue The utilization of plant garbage is ethnically suitable as the disposition after use is further involves the economic production of organic manure. The story line is a must welcome under prevailing contemporary climate resilience issues.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2020

(21) Application No.202011006739 A
(43) Publication Date : 06/03/2020

(54) Title of the invention : NANOWIRE BASED SOLAR CELL ARRAYS

(51) International classification :Y02P70/521
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)VIJAY KUMAR
2)SEEMA KUMARI

(57) Abstract :
The partial concentrator photovoltaic (CPV) module with a stacked structure -comprising a highly transparent CPV module and a Si cell, which aims to maximize the power generation from global normal irradiation (GNI) by harvesting not only direct, but diffuse sunlight as well. The module has the optimised optical and heat transfer characteristics, and its performance has been evaluated by outdoor and indoor tests using a sub-module with a geometrical concentration ratio of lOOx. The sub-module achieves diffused sunlight transmission of over 80%, thus generating more power from diffuse sunlight. Under clear-sky condition, the sub-module with a single-sided Si cell exhibits the maximum GNI-based module efficiency of 30.7%. The sub-module with a bifacial Si cell further improves the power generation and tolerance to tracking error angle for various sunlight conditions. FIG. 1(a).

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.202011006766 A

(43) Publication Date : 06/03/2020

(54) Title of the invention : TENSILE TEST FIXTURE ARRANGEMENT FOR O-RING SPECIMEN IN DIAMETRICAL TENSION OF CERAMIC MATERIALS

(51) International classification :G01N0003080000,G01N0003040000,G01N0003020000,G01N0003060000,G01N0003100000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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2)Meerut Institute of Engineering & Technology

3)Nomendra Tomar

4)Dr. Swapan Suman

(72)**Name of Inventor :**

1)Dr. Awani Bhushan

2)Nomendra Tomar

3)Dr. Swapan Suman

(57) Abstract :

The present subject matter relates to tensile test fixture arrangement (10) for O-ring specimen, comprises two grip plates (1) with holes at both ends; a pair of pins (3); a cross-head yolk (5) with a lock nut (6) configured to attach a Universal Testing Machine (UTM) by a pin-system or thread system; a plurality of chain journals (2) and chains (4) configured to align itself when the load is applied through the UTM; wherein one end of the grip plates (1) is attached with the O-ring specimen from both ends via the pins (3) to test in diametrical tension, and the other end of the grip plates (1) is attached with the chain journals (2) and chains (4) with the cross head yolk (5) with lock nut attachment (6).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/02/2020

(21) Application No.202011006862 A
(43) Publication Date : 06/03/2020

(54) Title of the invention : HIGH ENDURANCE 30KG PAYLOAD CARRYING OCTA-COPTER

(51) International classification	:H01M 10/00 H02J 7/00 H04N 13/00	(71)**Name of Applicant :** **1)JAIDEEP KALA** Address of Applicant :A-2183, IIND FLOOR GREEN FIELDS COLONY FARIDABAD HARYANA-121010, INDIA Haryana India **2)SONALIKA BHANDARI** **3)PRAANSHU SRIJAN SHANDILYA**
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)JAIDEEP KALA**
(33) Name of priority country	:NA	**2)SONALIKA BHANDARI**
(86) International Application No Filing Date	:NA :NA	**3)PRAANSHU SRIJAN SHANDILYA**
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The objective is to construct a highly reliable drone that can be used for disaster relief purposes and prove to be a life saviour in calamitous scenarios. We have devised a technique to make our octa-copter capable of transporting goods weighing about 30 kg for flight duration of over 50 minutes. The scientific basis is to make an intelligent battery pack from ii ion cells which have high energy density of 100-265wh/kg. With an intelligent battery power system based on master- slave concept using lithium ion cells a redundant power system has been designed. This unconventional power bank is embedded in our modular frame design with battery first approach to impart additional structural strength. Computer vision based navigation using stereo camera and depth sensing allows completing mission in GPS denied areas as well as acting as a redundant layer for failure due to bad weather conditions. The octa-copter will be fully autonomous and capable of long range missions for pin-point dropping of supplies in disaster struck areas. To make our octa-copter practical in flooded areas we plan to make it water and dust proof so that it completes mission objectives in all types of weather conditions. It is also equipped with advanced ground control systems for active tracking and with sensors like lidar and camera for situation awareness.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011007071 A

(19) INDIA

(22) Date of filing of Application :19/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : A POLYHERBAL UNANI FORMULATION MAJOON SURANJAN EFFECTIVE AGAINST CANCER CELLS ALONE AS WELL AS IN COMBINATION WITH ANTICANCER DURG SORAFENIB.

(51) International classification :A61K0031440000,G01N0033680000,C07D0213810000,G01N0033500000,C02F0009000000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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2)MOHAMMAD AFSAR KHAN

3)DR. HIFZUR RAHMAN SIDDIQUE

(72)**Name of Inventor :**

1)DEEPTI SINGH

2)MOHAMMAD AFSAR KHAN

3)DR. HIFZUR RAHMAN SIDDIQUE

(57) Abstract :

Majoon suranjan is a polyherbal Unani formulation used in the treatment of rheumatoid arthritis (RA). It has anti-inflammatory activity. Sorafenib is a type of targeted cancer drug called a cancer growth blocker. This invention is directed towards studying the effect of Majoon suranjan in combination with Sorafenib in decreasing the percent cell viability of both the cancer cell lines. We observed that Majoon suranjan along with sorafenib showed a greater decrease in cell viability as compared to when sorafenib was given alone. Our data suggest that Majoon suranjan along with sorafenib inhibits the growth of cancer cells and could be used as a potential adjuvant in the cancer patients undergoing sorafenib based therapy.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011007165 A

(19) INDIA

(22) Date of filing of Application :19/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : A GASIFIER SYSTEM FOR POWER GENERATION FROM BIOMASS

(51) International classification :C10K0001020000,C10J0003480000,C10J0003840000,C10K0003000000,C10J0003260000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Perumal Raman

(57) Abstract :
The present invention relates to a gasifier system(lOO) for power generation from biomass. The present invention includes a triple reactor gasifier(104), a primary gas cooling unit(l 16) a hot air distributor(122), a secondary gas cooling unit(130), an IC engine(138), an electric power generator(140). The triple reactor gasifier(104) includes a pyrolyzer zone(106), a gasification reactor zone(108)and a tar cracker zone(l 10). The gasification reactor zone(108) generates producer gas and attached below the pyrolyzer zone(106). The tar cracker zone(l 10) eliminates the presence of tar in the producer gas and attached below the gasification reactor zone(108). Herein the present invention performs gasification of biomass thus producing the producer gas that is free from tar. An IC engine(138) burns a mixture of air and producer gas to generate mechanical torque. The electric power generator(140) is connected to the IC engine(138) that uses mechanical torque for electricity generation. Fig.l

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011007267 A

(19) INDIA

(22) Date of filing of Application :20/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : UC-TOOL :CAR DOOR UNLOCKING MECHANISM WITHOUT KEY

(51) International classification :E05B0019200000,B29C0033400000,B25H0003040000,B60R0025240000,H04N0019170000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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6)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER- GEH RESEARCH LLP)

(57) Abstract :

The Invention UC-TOOL is A tool is provided for the unlocking of car doors despite the existence of anti-theft tools such as an inner shell (both side). The tool is bent in such a way so as to circumvent the inner shell placed in car doors by manufacturers which prevent the use of other door unlocking tools. The tool also is bent in such a way so as to unlock a car door despite the existence of anti-theft tools such as plastic coating on the locking bar that prevents other earlier tools from being used. The tool is a continuous high metallic rod bent at precise angles(0 Degree to 180 Degree rotate) and at precise lengths (Length increase and decrease according to user requirement) so as to take advantage of the spaces in between the window and the outer shell, the hole within the inner shell, and the distance between the hole and the inner shell and the locking tool. The tool is constructed very efficiently and cheaply.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011007303 A

(19) INDIA

(22) Date of filing of Application :20/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : VAT- MACHINES : VIRTUAL AUTOMATED TELLER MACHINES

(51) International classification :G07F0019000000,G06Q0020180000,G06Q0020100000,G06Q0040020000,G06Q0040000000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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3)DR.P.SARAVANAN (ASSOCIATE PROFESSOR, ECE)

4)DR .J. KARTHIKEYAN (PRINCIPAL)

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5)DR. RAKESH KUMAR YADAV (DIRECTOR- KCCITM)

6)DR.C.M.JOSHI (DIRECTOR)

(57) Abstract :

My Invention VAT- MACHINES An automated teller machine (ATM) which includes a plurality of peripherals including a National and international user interface for interacting with a user providing user information; a plurality of virtual automated teller machines (VAT-MACHINES) resident in the ATM, the VAT- MACHINES s networked to a plurality of financial institutions, each VAT-MACHINES capable of using its own ATM intelligent software application and capable of providing its own colour full, interactive menu of banking options to the National and international user; and an interface to communicate between the VAT- MACHINES s and the plurality of peripherals, receive the user information from the user interface, identify the user's financial institution, University and other financial organization link the user with the user's financial institution ,University etc. through a selected VAT- MACHINES corresponding to the user's financial institution and provide the menu of banking options to the user as if the user were using an ATM dedicated to the user's financial institution.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011007321 A

(19) INDIA

(22) Date of filing of Application :20/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : FLIP2EMPOWER

(51) International classification :H04M0003493000,G06Q0050200000,G09B0007000000,C07K0001000000,G06F0008200000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(72)**Name of Inventor :**

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2)KULDEEP SINGH

(57) Abstract :

Reproductive and Sexual Health education to school children and adolescents is a challenge for teachers and is seldom taught in a way to create medically appropriate, affirmative outlook towards sexuality. Discussing sexuality is considered a taboo. The problem is much more compounded by myths associated with sex information resulting in poor sexual behavior, teenage pregnancy, sexually transmitted infections & sexual crimes. There is also consequently high incidences of low birth weight babies birth, maternal and perinatal deaths. Low birth weight babies, gender discrimination are also responsible for population explosion. Our invention based on Active learning principle, Flipped Classrooms, where basic information about sexual and reproductive health is provided through a mobile application to be viewed at home by the students at his/her own pace. The class time in school is then, utilized for deeper learning, analysis, clarification in presence of a facilitator and use of Audience Response System (ARS) or Clickers. The sexual and reproductive health needs of adolescents in India are currently overlooked or are not understood by the Indian healthcare system. These are also not integrated well into Life skills module. Conventional approaches mostly consist of didactic lectures or talks but seldom encourage active participation. The present innovative will enable and empower adolescent girls and boys with knowledge and skills to take care of their own health during reproductive years resulting in healthy community. The methodology of using mobile app and ARS is innovative and results were quite encouraging in the intervention group with high level of satisfaction compared to control group.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011007396 A

(19) INDIA

(22) Date of filing of Application :20/02/2020

(43) Publication Date : 06/03/2020

(54) Title of the invention : ACCURATE MICROFLOW MEASURING RAIN GAUGE UNHINDERED BY DUST AND DEBRIS

(51) International classification :G01W0001140000,G01F0001660000,G01N0021030000,G01F0015000000,G01F0001000000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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2)Vivek Kumar

3)Kumud Saxena

4)Boncho Bonev

(72)**Name of Inventor :**

1)Hitesh Singh

2)Vivek Kumar

3)Kumud Saxena

4)Boncho Bonev

(57) Abstract :

An accurate and improved rain gauge in which microflow measurement system is installed along with a funnel system. The micro flow measurement is done by suitable device that includes a main controller board to get all the values. The device is Bluetooth enabled to send data to local mobile or live feed. The log generation is carried out using external memory with Real time clock and can be get log from device. The funnel system helps in measuring variable rain flow and the measurement is unhindered by dust and debris that accompany the rain.

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