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2015 Patent Details

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/04/2015

(21) Application No.448/KOL/2015 A
(43) Publication Date : 05/06/2015

(54) Title of the invention : ENHANCEMENT OF THERMAL CONDUCTIVITY THROUGH BEST NANOPARTICLE AND LIQUID PAIRING

(51) International classification :C09K5/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Dr. Ashok Misra
2)Dr. Saroj Kumar Mishra
3)Dr. Pradeep Kumar Tripathy
4)Dr. Damera Nageswara Rao

(57) Abstract :
The present invention relates to a method of calculating thermal conductivity of the nano-fluids. More specifically, the method relates to measurement of the increased thermal conductivity of nano-fluids considering the thermal conductivities affected by appropriate parameters like radius, surface area, concentration, and the temperature of medium due to applied electric charge to the thermal conducting nano-fluid.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/04/2015

(21) Application No.455/KOL/2015 A
(43) Publication Date : 05/06/2015

(54) Title of the invention : AUTOMATED MANUFACTURING OF AGRICULTURAL IMPLEMENTS

(51) International classification :B24B3/46
(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)Mir Sadit Ali
2)Aurobindo Sahu

(57) Abstract :
The present invention relates to a method of manufacturing agricultural implements on large scale. More specifically, the said method comprises of a computer aided process that collects and analyzes the required information and is also capable in designing appropriate model sketches. Further the process utilizes verification and scheduling device for verifying and scheduling the process for manufacturing of agricultural implement.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/05/2015

(21) Application No.561/KOL/2015 A
(43) Publication Date : 05/06/2015

(54) Title of the invention : COMPACT SOLAR POWERED WATER PUMPING SYSTEM

(51) International classification	:F04B17/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
1)Shiv Sankar Das
2)Udaya Kumar Sahoo

(57) Abstract :
The present invention relates to a compact solar powered water pumping system that comprises of, a moving means used for transportation from one location to another; plurality of solar panels mounted on the moving means; a foldable means provided in between the plurality of solar panels; and a pump used for pumping water, mounted on the moving means. Present invention relates to compact solar powered water pumping system which is mounted on the movable means. More specifically the direction of the solar panels can be adjusted to sunlight angle for optimum power generation of electric power that can be utilized for powering water pump. Further, the present invention offers an economic, easy to carry, portable mobile powering unit that can be carried form one place to other for powering water pumps.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/05/2015

(21) Application No.574/KOL/2015 A
(43) Publication Date : 05/06/2015

(54) Title of the invention : PROCESS FOR SUPERCRITICAL AND SUBCRITICAL FLUID CO2 EXTRACTION OF FRAGRANCES FROM CHAMPA FLOWERS

(51) International classification :A61K8/41
(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
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(72)**Name of Inventor :**
1)Shashikant Tewary

(57) Abstract :
The present invention relates to a method of extracting useful compounds from selected species of plants. More specifically, the said method comprises delivering an extraction fluid from a delivery system to a heating means. Further, the method involves treating the plant species and the residual plant species with the extraction fluid in an extractor at the supercritical and sub-critical conditions respectively; separating and collecting the useful compounds in a first and second collecting means respectively thereby increasing the extraction rate of the useful compound.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/05/2015

(21) Application No.612/KOL/2015 A
(43) Publication Date : 05/06/2015

(54) Title of the invention : IDENTIFICATION OF HYDROCARBON LOCALES OF AN UNEXPLORED BASIN USING SPACE INPUTS AND GIS

(51) International classification	:G01V9/00	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)**
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(33) Name of priority country	:NA	(72)**Name of Inventor :**
(86) International Application No	:PCT//	**1)Prafulla Kumar Panda**
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present invention relates to a method of identification of natural resources or hydrocarbon locales from an unexplored basin. More specifically the present invention identifies geographic anomalies based on the state of generated thematic layers using geological information. Further, architectural information of the subsurface is also collected which generates a layout that can be used to identify the natural resources or hydrocarbon locales.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2015

(21) Application No.698/KOL/2015 A

(43) Publication Date : 07/08/2015

(54) Title of the invention : CONTROLLER DESIGN OF SEPIC CONVERTER USING MODEL REDUCTION

(51) International classification	:H02M7/217
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**

1)Binod Kumar Padhi

(57) Abstract :

The present invention relates to a method of designing a feedback controller for higher order converter using model reduction technique. More specifically, the said method comprises of deriving the system functions in mathematical model of a physical high order converter, followed by reducing the system function of higher order into a lower order. Further, a compensator is designed for the reduced model for improved steady state and transient response.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/06/2015

(21) Application No.707/KOL/2015 A

(43) Publication Date : 07/08/2015

(54) Title of the invention : A HIGH PERFORMANCE BRIDGELESS AC-DC-DC POWER FACTOR CORRECTOR FOR LED DRIVER APPLICATION

(51) International classification	:H02M7/217
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**

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(72)**Name of Inventor :**

1)Satya Narayan Padhy

2)Sarika Kalra

(57) Abstract :

The present invention relates to a high performance bridgeless DC-DC power-factor correcting circuit. More specifically, the bridgeless DC-DC power factor corrector converter comprises of plurality of passive elements like capacitors, inductors and thereof. Further, the said plurality of active elements like diodes, an electromechanical device like switching means and atleast two additional diodes are utilized for improving the power factor of the circuit for load driving.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/07/2015

(21) Application No.742/KOL/2015 A

(43) Publication Date : 07/08/2015

(54) Title of the invention : COMPOSITE MATERIALS FROM LAYERED SILICATE CLAY AND METHOD OF MAKING GRINDING WHEELS USING THE SAME

(51) International classification :C09D7/12
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Annepu Lakshumu Naidu
2)Damera Nageswara Rao

(57) Abstract :
The present invention relates to a method of preparing nanocomposite grinding wheel using layered silicate-epoxy nanocomposite material. More specifically the montmorillonite-type-clay is modified into organo clay which is cured in presence of the epoxy resin facilitating for a crosslinking reaction between the organo clay and the epoxy resin at lower temperatures resulting in a nanocomposite with strong adhesion which is dispersed in a polymer tube comprising of styrene monomer. Further benzoyl peroxide is added to the mixture and is heated followed by crushing. The crushed polymerized material is heated in an vacuum oven for a certain period of time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/07/2015

(21) Application No.749/KOL/2015 A
(43) Publication Date : 07/08/2015

(54) Title of the invention : SMART CUSTOMIZED TEACHING DEVICE

(51) International classification :G06F3/0488
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/ /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
1)Dr. Prajna Pani
2)Sashi Bhushan Maharana

(57) Abstract :
The present invention relates to a smart interactive teaching aid having customized teaching information useful for improved learning capability. More specifically, the device helps the student in real-time scenarios by review, practice exams, educational games and other related activities that will automatically be recorded in the device for further preview. Further, the invention provides more interactive learning rather than routine knowledge dissemination using a smart & advanced interactive learning device.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.756/KOL/2015 A

(22) Date of filing of Application :14/07/2015

(43) Publication Date : 11/09/2015

(54) Title of the invention : MIMO SYSTEM MODEL ADAPTABLE FOR DIFFERENT CHANNEL CONFIGURATIONS

(51) International classification	:H04B7/06
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**

1)Abinash Gaya

(57) Abstract :

The present invention relates to a wireless communication system that comprises of Multi input Multi output (MIMO) means. More specifically, the Multi input multi output (MIMO) means includes plurality of transmitting and receiving means and a channel utilized for the multi input and multi output means. Further, the MIMO is adaptable for different channel configurations as a common platform.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2015

(21) Application No.1181/KOL/2015 A
(43) Publication Date : 04/12/2015

(54) Title of the invention : SOLAR DRYER

(51) International classification :F24J2/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Shiv Saukar Das
2)Biswajit Nayak
3)Udaya Kumar Sahoo
4)Debashree Behera

(57) Abstract :
The present invention relates to an energy efficient solar dryer for drying foods, vegetables, seafood, edibles or organic foods and thereof. More specifically, the present invention eliminates moisture and provides sufficient drying in a reliable, hygienic and economic way with all three modes of heat transfer viz., conduction, convection and radiation. Further, the present invention eliminates the use of auxiliary heaters by taking advantage of direct sunlight falling over the dryer that is made of a good heat conducting material to heat air within the drying room.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2015

(21) Application No.1182/KOL/2015 A
(43) Publication Date : 04/12/2015

(54) Title of the invention : RAPID CURING AGENT

(51) International classification :C04B28/14
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/ /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)SASANK SEKHAR HOTA

(57) Abstract :
The present invention relates to rapid curing of concrete in a very less amount of time. More specifically, the present invention improves the bond strength between reinforcing bars and concrete at a very early age utilizing reduced energy consumption and cement. Further, the present invention is very economical compared to the existing curing processes and utilizes the same equipment used for steam curing with slight modifications.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2016

(21) Application No.201631029622 A
(43) Publication Date : 07/10/2016

(54) Title of the invention : Auxiliary Powered Household Appliance

(51) International classification :H02J17/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Udaya Kumar Sahoo

(57) Abstract :
An improved auxiliary powered household appliance comprises of BLDC motors, main source AC grid electric supply, an auxiliary solar DC electric power, where the household appliance can switch between the two power sources either automatically or upon manual selection of type of power supply (grid electric power or solar power) by the user. The solar energy is captured by a solar panel and controlled to provide a constant rate of 12V DC power output for the operation of household appliance. Also the solar energy may be stored in a battery. The grid electric AC power is converted to DC power output and supplied to the appliance. The auxiliary powered household appliance is economical and practical and is advantageous in saving the grid electricity and also beneficial in areas of power interruption.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2016

(21) Application No.201631029623 A
(43) Publication Date : 07/10/2016

(54) Title of the invention : Fluid Heating Solar Dehydrator

(51) International classification :F26B3/28
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Udaya Kumar Sahoo
2)Debashree Debadatta Behara
3)Biswajit Nayak
4)Shiva Sankar Das

(57) Abstract :
A fluid heating solar dehydration assembly for drying of wet matter comprises of a heat chest for holding the material to be dried with an inlet for introducing flow of hot air and a solar hat capturing unit for elevating the temperature of air entering the unit. The heat chest is connected to and is in thermal communication with the solar heat capturing unit with air inlets lined with moisture limiting materials. A driving arrangement can be disposed in the solar heat capturing unit for directing heated air through the heat capturing unit and into drying relationship with the material to be dried in the heat chest. An exhaust arrangement is provided in the drying compartment for venting of spent air. The small scale fluid heating solar dehydration assembly is economic and beneficial in rural areas.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2016

(21) Application No.201631029624 A
(43) Publication Date : 07/10/2016

(54) Title of the invention : Solar Drip Irrigation System

(51) International classification :A01G9/24
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of inventor :**
1)Debashree Debadatta Behara
2)Nimay Chandra Giri
3)Monalisa Mohanty
4)Shiva Sankar Das

(57) Abstract :
An auxiliary powered irrigation system comprises of an auxiliary power source mounted onto a structural arrangement with a solar tracking device for converting solar energy into electric energy, wherein the auxiliary power source is electrically connected through a miniature circuit breaker (MCB) combo box for powering the water pumping device to pump water and irrigate farm lands. The water pumping device such as a submersible pump is connected with a water source such as a water well and a water reservoir. The water reservoir is connected to drip irrigation carrying supply line with plurality of distribution lines to irrigate the farm lands by means of water pumped by auxiliary powered water pumping device. The auxiliary powered irrigation system has the advantages that power can also be supplied for irrigation under the conditions of power interruption from connected grid so that the normal running of irrigation equipment is ensured and the drip-irrigation efficiency & efficiency of submersible pump powered through solar electricity is improved.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2016

(21) Application No.201641029625 A
(43) Publication Date : 04/11/2016

(54) Title of the invention : VIBRATORY ASSISTED WELDING SYSTEM

(51) International classification	:A61H 1/00	(71)**Name of Applicant :** **1)P.Govinda Rao** Address of Applicant :S/o Vykunta Rao Belamara Village & Post,Polaki Mandal, Srikakulam-532 430,Andhra Pradesh, India Andhra Pradesh India **2)Dr.P.SRINIVASA RAO** **3)A.Gopala Krishna**
(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	(72)**Name of Inventor :** **1)P.Govinda Rao** **2)Dr.P.SRINIVASA RAO** **3)A.Gopala Krishna**
(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 vibratory assisted welding system to aid in improvement of welding properties of the specimens. The vibrations induced during the welding operation can be controlled through various disclosed methods, primarily through voltage adjustment of the vibration inducing assembly. Another method would be to induce vibrations through a structural means mounted over the vibrating platform. The invention is advantageous in providing an economic vibration system with a control over production of vibrations and transfer over vibrations to the specimen plates to the welded thereby improving the weld joint efficiency.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2016

(21) Application No.201641032469 A
(43) Publication Date : 07/10/2016

(54) Title of the invention : COLLAPSIBLE VEHICLE

(51) International classification	:B62K 15/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
1)A. Lakshumu Naidu
2)Dr P S V Ramana Rao

(57) Abstract :
The invention details a collapsible vehicle, which can be easily folded in simple steps. The bike is provided with a sliding lock, dead lock configuration and position-lock mechanism for mounting of movable parts, which can be movably folded and/ or disengaged to collapse the bike. The collapsible vehicle is portable and is light weight which is advantageous for carrying it in the collapsible position.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/08/2017

(21) Application No.201731027568 A
(43) Publication Date : 08/09/2017

(54) Title of the invention : A SYSTEM FOR PRECISE FARM MONITORING AND MICROCLIMATE CONTROL

(51) International classification	:G01P5/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
1)Aamlan Saswat Mishra

(57) Abstract :
The presernt invention proposes a system for precise farm monitoring and microclimate control. The system comrpises plurality of sensors in communication with a processor to detect farm parameters and transmit sensed values such as temperature, humidity, pH, methane and thereof to the processsor. The processor is configured to compare the values with predetermined limits stored in the professor and thereby control the connected devices such as foggers to spray watervapor into the enviroement for maintaining the temreoature betweeen of the farm of a place between wet bulb and dry bulb temperature, fertilizer valve to supply nutients, irrigation pump to supply water and thereof. The farmers, sharecroppers and the like can trade and display yeild on a gloabal market throught the applicaion mdouel ofmthe sytem which also facilitates precise farm monitoring. The invention is advantageous in providing farmers, sharecroppers and the like the flexibility of shifting crop seasons and obtains high yield not limiting themselves to the seasonal cops and expose farmers, sharecroppers and the like to global market.

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

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2018 Patent Details

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/05/2017

(21) Application No.201731018651 A
(43) Publication Date : 14/12/2018

(54) Title of the invention : A MULTIPURPOSE SOLAR ENERGY OPERATED SUGARCANE AND FRUIT JUICE CART

(51) International classification	:B60L 8/00, B65G35/00, B60P 3/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)Centurion University of Technology and Management
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(72)**Name of Inventor :**
1)Udaya Kumar Sahoo

(57) Abstract :
The present invention proposes a multipurpose solar energy operated sugar cane and fruit juice cart comprising of housing with a solar roof and a platform divided into sections for holding a sugarcane crusher in one partition and a food processor in the other partition, powered by the solar energy captured by the solar panels. The solar energy is stored in battery banks, while the crusher is driven through a V-belt arrangement by a motor, being powered by the battery banks. The invention is advantageous in reducing sound pollution, environmental pollution while optimizing the business model of street vendors, by minimizing their energy cost and maximizing the productivity with green energy.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2017

(21) Application No.201731043327 A
(43) Publication Date : 07/06/2019

(54) Title of the invention : AUTOMATIC CONTROL SYSTEM FOR WATER SPRINKLING AND VENTILATION

(51) International classification	:A01G 1/00	(71)**Name of Applicant :** **1)Centurion University of Technology and Management (CUTM)** Address of Applicant :17, Forest Park, Bhubaneswar, Khurda District - 751009 Odisha, India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)Sangram Keshari Swain**
(87) International Publication No	: NA	**2)Subrat Kumar Pradhan**
(61) Patent of Addition to Application Number	:NA	**3)Swarna Prabha Jena**
Filing Date	:NA	**4)Saroj Behera**
(62) Divisional to Application Number	:NA	**5)T. Sunil Kumar**
Filing Date	:NA	

(57) Abstract :
The present invention proposes an automatic control system for water sprinkling and ventilation. The system comprises a circuit board that mechanically supports and electrically connects the components using conductive tracks and thereof. The system uses an arduino based ATmega microcontroller that is specifically programmed to compute the input signals. The signals are received from the various sensors that sense moisture content of beds, humidity and ambient temperature and thereof. This is achieved by using a detecting unit with plurality of detectors arrangement for an effective system. Once the controller receives this signal, it begins the process of computation in order to carry out the necessary action for comparing the precise parameters that are pre fed and displayed in a visual means, which makes it very much informative. The system reduces human intervention and takes care of proper maintenance of growth parameters and minimizing wastage of resources in the mushroom cultivation chamber

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2017

(21) Application No.201731043328 A
(43) Publication Date : 07/06/2019

(54) Title of the invention : SMART MONITORING SYSTEM OF SOIL MOISTURE

(51) International classification :G01N 33/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Sangram Keshari Swain
2)Subrat Kumar Pradhan
3)Swarna Prabha Jena
4)Saroj Behera

(57) Abstract :
An integrated handheld soil moisture sensor device comprising a controller for controlling a soil moisture sensor and integrated to the microcontroller, an oscillator to generate an electrical signal of precise frequency and a sensing unit to determine the moisture content of the soil. The controller may be a microcontroller of 8051, AVR, PIC and the like controllers. The controller controls the sensor circuit in accordance to the program dumped in the controller. The soil moisture sensor may be a capacitance sensor, granular matrix sensor and the like sensors. The oscillator may be a crystal oscillator, Hartley oscillator and the like oscillators to provide clock signals based on type of said controller. The sensing unit may be a neutron probes, gravimetric probes and the like sensing units and material of the sensing unit may be a conducting material such as copper, aluminium, metal and thereof. The sensing unit is inserted into the soil to determine moisture content of the soil where in the moisture content is displayed with precise value. The invention consists of portable soil moisture sensor and a common display unit. This makes it possible for the user to observe the moisture level of the soil in multiple locations from a single conveniently positioned display unit.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2017

(21) Application No.201731043329 A
(43) Publication Date : 07/06/2019

(54) Title of the invention : LOW SMOKE PORTABLE COMBUSTION FURNACE

(51) International classification	:A47J 37/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Nityananda Padhy
2)Debashree debadatta Behera
3)Dr Biswajit Nayak
4)Shiv Sankar Das

(57) Abstract :
A low smoke portable combustion furnace comprises a combustion chamber, a shell, a plurality of air inlets, a plurality of orifices, a plurality of set of pores engraved on orifices and a support structure to place an item such as a vessel, a pot, a container and the like. The combustion chamber is to contain and combust solid biomass fuels. The term ''biomass'' can be taken broadly to include any fuel, coal, oil, waste products, etc., that will burn more cleanly and efficiently by getting injected of air during combustion. The inventive design of the combustion chamber can be of a variety of shapes such as cylindrical or pie shape, depending on the type of fuel used and the stove's intended purpose. The furnace design reduces the amount of carbon monoxide gas emitted from the burning of solid fuel energy source, especially biomass.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2019

(21) Application No.201941040224 A
(43) Publication Date : 25/10/2019

(54) Title of the invention : MACHINE LEARNING BASED COMPUTER IMPLEMENTED METHOD FOR MANAGING PRODUCTION FROM A HYDROCARBON RESERVOIR

(51) International classification :G06N3/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Bennet Prabhu .A
4)Dr. Sujata Chakravarty
5)Amar Kumar Das
6)Dr. Prashant Kumar Shukla
7)Dr. Piyush Kumar Shukla
(72)**Name of Inventor :**
1)Deepa R
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3)Bennet Prabhu .A
4)Dr. Sujata Chakravarty
5)Amar Kumar Das
6)Dr. Prashant Kumar Shukla
7)Dr. Piyush Kumar Shukla

(57) Abstract :
The present disclosure of invention is present machine learning based computer implemented method for managing production from a hydrocarbon reservoir. The objective of the present invention to provide overcomes the inadequacies of the prior art in effective management of production from a hydrocarbon reservoir. The presented computer implemented method uses a technical data and economic data with a neural network based model to manage the operation of the production of the hydrocarbon reservoir.

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

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2020 Patent Details

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/02/2019

(21) Application No.201931004151 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : ROBOTIC SERVICE SYSTEM FOR RAILWAY COACHES (SWAB RAILWAYS)

(51) International classification	:A61B0034300000, H04N0021218000, H04N0021218700, H04N0007180000, G09C0001000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Avinash Seekoli
2)Debasish Mohanty
3)S.Ranjit Rao

(57) Abstract :
Title: Robotic Service System for Railway Coaches The present disclosure discloses a robotic service system that automatically cleans the targeted railway coaches while sending live video feed and monitors different parameters of the railway coaches that include humidity, gas, temperature and thereof. The robotic service system has the ability to communicate bit to bit information wirelessly about the train at any moment with railway personnel. The information may include real-time image capturing which is then communicated with the railway personnel. Further, a controlling means is configured to receive and execute instructions sent from the railway personnel. Thus, the disclosure provides a safety servicing and data collecting robot thereby preventing many accidents and life threatening issues at a low cost.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2019

(21) Application No.201931032613 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : CORIANDER EXTRACT FOR BONE CANCER

(51) International classification	:A61K0036230000, A61K0031474500, A61K0048000000, A61K0041000000, A61K0009480000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The proposed disclosure provides a therapeutically effective coriander (Coriandrum Sativum) composition for targeted gene therapy with proven pharmacological activities for the treatment of particular bone cancer. The formulation of coriander (Coriandrum Sativum) composition comprises of herbal extracts such as Decene (6DJC) and 2- Bornyl acetate (5ZF4) extracted from the root of coriander. The composition helps in inhibiting DNA damage, preventing cancer cell migration and promoting cancer cell death or boost the immune system. The composition has the capability of removing toxins from the body by relieving fluid retention. The composition is formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The composition helps in providing better molecular docking scores when compared to conventional extracts.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2019

(21) Application No.201931032614 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : SYZYGIUM AROMATICUM EXTRACTS FOR OVARIAN CANCER

(51) International classification	:A61K0036610000, A23L0033105000, A61K0031198000, A61K0048000000, A21D0002360000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The proposed disclosure provides a therapeutically effective Syzygium aromaticum (clove) composition for targeted gene therapy with proven pharmacological activities for the treatment of ovarian cancer. The formulation of Syzygium aromaticum (clove) composition comprises of herbal extracts such as kaempferol and protein. In specific, protein may include either 5AUX or 5AV2 or 5AV3 or 4DET. The composition has the capability of being used as anti-oxidant property that helps in removing free radicals. The composition can be formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The composition helps in providing better molecular docking score when compared to conventional extracts in Syzygium aromaticum.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2019

(21) Application No.201931032615 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : METHI EXTRACT FOR LIVER CANCER

(51) International classification	:A61K0048000000, A61K0041000000, A61K0031708000, A61K0031417800, A61K0009480000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The proposed disclosure provides a therapeutically effective Fenurgreek (Methi) composition for targeted gene therapy with proven pharmacological activities for the treatment of liver cancer. The formulation of Fenurgreek (Methi) composition comprises of herbal extracts such as linalool, sotolon and coumarin. The composition has the capability of being used as anti-oxidant and anti microbes. The composition is formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The formulated drug can also be used for preparing different skin and hair products. The composition helps in providing better molecular docking scores when compared to conventional extracts in Fenurgreek.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2019

(21) Application No.201931032616 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : BACOPA MONNIERI EXTRACTS FOR LUNG CANCER

(51) International classification	:A61K0036800000, A61K0041000000, A61K0009480000, A61K0036680000, A61K0031416400
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The proposed disclosure provides a therapeutically effective Bacopa monnieri (Bramhi) composition for targeted gene therapy with proven pharmacological activities for the treatment of lung cancer. The formulation of Bacopa monnieri (Bramhi) composition comprises of herbal extract such as Alpha alanine-6HUG. The composition has the capability of being used as anti-oxidant property that helps in removing free radicals. The composition can be formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The composition helps in providing better molecular docking score when compared to conventional extracts in Bacopa monnieri.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2019

(21) Application No.201931041144 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : SOLAR SUGARCANE JUICER WITH CUSTOMIZED COOLING AND ADDITIVE DOSAGE DESIGN

(51) International classification	:A47J0019020000, A23N0001000000, A23L0002040000, F24S0060300000, C13B0020160000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Nimay Chandra Giri
2)Bishnu Prasad Mishra

(57) Abstract :
Title: Solar Sugarcane Juicer with Customized Cooling and Additive Dosage Design The present disclosure discloses a sugarcane juicer machine with customized cooling and additive dosage design that offers a ready to serve sugarcane juice. The juicer machine is powered using solar energy which is used in any remote part of the world. The juicer machine comprises of a juice extractor, a clarifier, a cooling unit and an additive dosage selector. The cooling unit further comprises of a brine tank, plurality of Peltier cells and plurality of helical coils. The clarifier may include a centrifugal clarifier that aid in separating the solids from the extracted juice. The plurality of Peltier cells are powered by the solar power supply that aid in customized cooling the brine solution as per customer requirement. The juicer provide different levels of cooling and different flavors for taste enhancement. The additive dosage selector is incorporated to add different customized additives as per customer requirement to the cooled juice to make it tastier. The juice is blended with other taste improvers that provide health benefits to cure or prevent some diseases. The solar sugarcane juicer machine provides a hygiene sugarcane juice at an affordable price that can be assured to all rural, semi urban and urban population.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2019

(21) Application No.201931045677 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : AUTOMATIC FAULT CONTROL SYSTEM INTEGRATED 3D PRINTER

(51) International classification	:G06F0011070000, H02M0001320000, B41J0003407000, G01R0031360000, A42B0003040000
(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)Suman Kumar Sudhanshu

(57) Abstract :
Title: Automatic Fault Control System Integrated 3D Printer The present disclosure discloses an automatic fault control system integrated 3D printer which automatically monitors different parameters, assesses and corrects faults within the printer during printing of an object. The control system comprises a parameter monitoring module, a remedy application module, a fault communication module, a controller and a power module. The parameter monitoring module is configured to assess faults during printing and the fault communication module is configured to communicate the assessed faults wirelessly to the remedy application module. The remedy application module can be linked either as a mobile application or a server application or the like which provides remedies to faults occurred during printing. Further, the controller is configured to process received remedies and to correct faults occurred during printing without discontinuing the process of printing.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2019

(21) Application No.201931049814 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : A DEVICE FOR DETECTION OF FOOD TOXINS

(51) International classification	:A23L0005200000, A23P0030200000, G01N0033558000, A23K0050400000, B01J0020220000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The present disclosure discloses a cost-effective sensing device that detects food toxins i.e., Aflatoxin B1 in agricultural plants, food and feed products with ease and can be used by the farmers. The device comprises a body 101, a paper roll casing 102, a guiding and rolling means 103, a sample collecting means 104, an ejection means, a cutting means 105, and a paper outlet 106. The device is cost-effective and aids in detecting Aflatoxin in food and feed products based on capillary rise principle. The device is capable of detecting minor changes in the pH of solution to thereby enhance the detection procedure of the affected cell. The device helps in detecting biochemical changes in agricultural plants, food, and feed products with reduced time-consumption.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2019

(21) Application No.201931051679 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : BIO-GAS CYLINDER MONITORING AND REPLACING SYSTEM IN MOBILE BIO-TOILETS

(51) International classification	:C12M0001107000, A47K0011030000, C02F0003280000, C12M0001000000, G06Q0010060000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)Jyoti Lal Lodhi
3)N.Laxmidhar Reddy

(57) Abstract :
Title: Bio-Gas Cylinder Monitoring and Replacing System in Mobile Bio-Toilets The present disclosure discloses an e-movable bio-toilet incorporated with monitoring and replacing system that alerts the driver to replace the cylinder once it is filled and simultaneously transmits wirelessly the bio-gas availability information to the gas inventory in real-time. The system 100 comprises a vehicle body 101, a toilet cabinet 102, a replaceable bio-gas cylinder 103, and a weight detection means 104, a pair of visual indication means 105, a signal transmitting means 106, and a dashboard controlling means. The system transmits the signal to the driver or the inventory either in an audibly or visually manner with colour representation of filling level indication of methane gas in the cylinder. The bio-gas monitoring and replacing system minimizes pollution by using electrical energy and generates good revenue by selling the methane gas that is extracted from the waste material.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/12/2019

(21) Application No.201931054080 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : TERMINALIA CHEBULA EXTRACT COMPOSITION FOR JAUNDICE

(51) International classification	:A61K0036185000, A61K0008970000, A61K0048000000, A61K0008310000, A61K0008340000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(72)**Name of Inventor :**
1)Preetha Bhadra
2)Atanu Deb

(57) Abstract :
Terminalia Chebula Extract Composition for Jaundice The proposed disclosure provides a therapeutically effective terminalia chebula (Haritaki) composition for targeted gene therapy with proven pharmacological activities for the treatment of jaundice. The terminalia chebula extract Composition comprises of herbal extracts such as chebulagic acid, punicalagin and chebulanin. The proposed terminalia chebula (Haritaki) composition enhances glucuronidation process to thereby decrease the levels of bilirubin. The proposed composition is a cost effective drug with less harmful side effects for normal cells. The terminalia chebula (Haritaki) composition reduces the use of synthetic drugs.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/08/2019

(21) Application No.201941032262 A
(43) Publication Date : 03/07/2020

(54) Title of the invention : NANOPARTICLES FOR SINGLE CYLINDER SPARK IGNITION ENGINE

(51) International classification	:F02B 75/16	(71)**Name of Applicant :** **1)Dr.GURRAM ARUN MANOHAR** Address of Applicant :50-94-25/12, ARUN APARTMENTS SHANTIPURAM, VISAKHAPATNAM, ANDHRA PRADESH-530016, INDIA. Andhra Pradesh India **2)Dr.G.Arun Manohar**
(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	(72)**Name of Inventor :** **1)Dr.GURRAM ARUN MANOHAR** **2)Dr.G.Arun Manohar** **3)Dr.D.Nageswara Rao** **4)Dr.D. NAGESWARA RAO**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT: Title: Nanoparticles for Single Cylinder Spark Ignition Engine The present disclosure discloses usage of biodegradable sisal nanoparticles in the combustion chamber of a single cylinder spark ignition engine along with air fuel mixtures. The nanoparticle addition assembly 100 comprises a fuel measuring unit 101, an air measuring unit 102, a temperature measuring unit 103 and a nanoparticle regulating unit 104. The nanoparticle regulating unit 104 is configured to add biodegradable sisal nanoparticles into the cylinder. The nanoparticle regulating unit 104 further comprises a flow channel pipe 105, a storage chamber 106, and a valve 107 positioned before the storage chamber. The method allows a drop in the pollutant formations of CO and HC with the addition of sisal nanoparticles. The combustion efficiency is measured in terms of the maximum temperature attained in the cylinder.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/06/2020

(21) Application No.202031024943 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : A BIO-PESTICIDE COMPOSITION BASED ON PEPPERMINT EXTRACT AND ITS PREPARATION METHOD THEREOF

(51) International classification	:A01N63/00	(71)**Name of Applicant :**
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(32) Priority Date	:NA	Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.
(33) Name of priority country	:NA	(72)**Name of Inventor :**
(86) International Application No Filing Date	:NA :NA	**1)Preetha Bhadra**
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The present disclosure proposes a peppermint extract composition for the treatment of grey mould and microbial diseases in plants. The extract composition comprises pharmacophores such as menthone, menthofuran, beta pinen, and 1, 8 cineole that target endopolygalaturonases responsible for grey mould and microbial diseases in plants. The disclosure provides a peppermint extract composition for use as a potential biopesticide. The proposed composition provides a cost-effective drug with less harmful side effects for normal cells. Further, the composition aids to reduce the use of pesticides based on synthetic drugs.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/06/2020

(21) Application No.202031024944 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : A BIOPESTICIDE COMPOSITION BASED ON BAEL EXTRACT AND ITS PREPARATION METHOD THEREOF

(51) International classification :A01N63/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
A Biopesticide Composition based on Bael Extract and its Preparation Method thereof The present disclosure proposes a potential biopesticide based on bael extract. The extract comprises of pharmacophores such as aegeline, skimmianine(1), d-limonene, marmelosin, allocryptopine to target different genes responsible for aphids in plants. The bael extract composition comprises 15 to 25 percentage of aegeline, 15 to 25 percentage of skimmianine(1), 15 to 25 percentage of d-limonene, 15 to 25 percentage of marmelosin, and 15 to 25 percentage of allocryptopine. The biopesticide extract composition interrupts with the enzymatic pathway of aphids by targeting the enzymes responsible. The bael extract composition is a cost-effective biopesticide with less harmful side effects for normal cells. The proposed composition reduces the use of pesticides based on synthetic drugs.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/06/2020

(21) Application No.202031024945 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : CUMIN EXTRACT BASED BIOPESTICIDE COMPOSITION

(51) International classification :A01N63/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The proposed disclosure provides a therapeutically effective cumin extract based biopesticide composition for targeted gene therapy with proven pharmacological activities for the treatment of wilt disease. The formulation of cumin extract based biopesticide composition comprises of pharmacophores such as berberine, p-coumaric, saponins and 4-isopropylbenzoic acid. The cumin composition is formulated as natural drug for microbial diseases in plants without harmful side effects for normal cells.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/06/2020

(21) Application No.202031024946 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : METHI EXTRACT BASED BIOPESTICIDE COMPOSITION

(51) International classification :A01N63/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Preetha Bhadra

(57) Abstract :
The proposed disclosure provides a therapeutically effective methi extract based biopesticide composition for targeted gene therapy with proven pharmacological activities for the treatment of purple blotch disease. The formulation of methi extract based biopesticide composition comprises of pharmacophores such as trigoneline, trimentylcoumarin, carpaine, choline, methyl coumarin, and trigocoumarin. The methi composition is formulated as natural drug for microbial diseases without harmful side effects for normal cells. The composition helps to aid future medicine to be completely allied to the pharmacophores and reduces the usage of synthetic drugs.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/06/2020

(21) Application No.202031027644 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTIBACTERIAL COMPOSITION

(51) International classification :A01N63/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)Chinmaya Chidananda Behera
2)Dr.Amulyaratna Behera
3)Dr.Priyanka Das
4)Mrs.Suchismeeta Behera

(57) Abstract :
The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based antibacterial composition and screened for binding affinities towards various bacterial proteins for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/06/2020

(21) Application No.202031027645 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTICANCER COMPOSITION

(51) International classification :A61K36/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr.Amulyaratna Behera
3)Dr.Priyanka Das
4)Mrs.Suchismeeta Behera

(57) Abstract :
The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based anticancer composition and screened for binding affinities towards 4EKL, 3W32, and in vitro anticancer by inhibition of human cancer cell line growth. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/06/2020

(21) Application No.202031027646 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTI-FUNGAL COMPOSITION

(51) International classification :A61K36/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Chinmaya Chidananda Behera
2)Dr.Amulyaratna Behera
3)Mr.Suman Kumar Mekap
4)Mrs.Suchismeeta Behera

(57) Abstract :
The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based anti-fungal composition and screened for binding affinities towards various fungal proteins for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/06/2020

(21) Application No.202031027647 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED MULTI TARGETING ANTI-SARS COMPOSITION

(51) International classification :A61K36/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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2)Dr.Amulyaratna Behera
3)Dr.Gurudutta Pattnaik
4)Mrs.Suchismita Behera

(57) Abstract :
The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based multi-targeting anti-SARS composition and screened for binding affinities towards various Severe Acute Respiratory Syndrome Coronavirus-2 (SARS CoV-2) proteins for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibition of the replication and multiplication of virus in the host cells when compared to presently repurposed drug molecules for the disease.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/06/2020

(21) Application No.202031027660 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : COMPACT SEMI-AUTOMATIC PAPER PEN AND PENCIL MAKING MACHINE

(51) International classification :B43K29/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
1)Amiya Singh
2)Prem Shankar Pandey
3)Ahmed Raza
4)Jamaluddin Khan
5)Rezuwan Khan

(57) Abstract :
The present disclosure proposes a compact semi-automatic paper pen and pencil making machine that reuses waste paper to roll and produce eco-friendly pens and pencils. The paper pen and pencil making machine 1S00 comprises a mounting base 101, an idle axle 102 fixed on one side of the mounting base 101, a driving axle 103 fixed on the other side of the mounting base 101 and connected to the idle axle 102 through a conveyor belt 104, a motor 105 coupled to the driving axle 103, an upper pressure plate 106a fixed on top of the mounting base 101 above the conveyor belt 104 and a lower pressure plate 106b below the conveyor belt 104, plurality of screw and spring adjustment units 107 configured on either side of the pressure plates 106a and 106b to fasten them to the mounting base 101. The machine is of simple design that consumes less power and lower maintenance. The machine aids to make pencils or pens with easier and simple process that takes only few steps. Thus, the proposed paper pen and pencil making machine is lightweight, occupies less space, and is portable.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/06/2020

(21) Application No.202031027661 A
(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTI-DIABETIC COMPOSITION

(51) International classification :A61K45/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
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2)Dr.Amulyaratna Behera
3)Mr.Suman Kumar Mekap
4)Mrs.Suchismeeta Behera

(57) Abstract :
The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based and screened for binding affinities towards human Peroxisome proliferator-activated receptor gamma for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/08/2020

(21) Application No.202031035660 A
(43) Publication Date : 04/09/2020

(54) Title of the invention : MULTI-LEVEL SECURITY AND DETECTION SYSTEM TO AVERT ELEPHANT ACCIDENTS AT RAILWAY TRACKS

(51) International classification	:G06F11/30	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)Dr.Sujata Chakravarty**
(32) Priority Date	:NA	Address of Applicant :Flat-251, Northern Heights,
(33) Name of priority country	:NA	Nandanvihar, Bhubaneswar-751024, Odisha, India.
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)Payal Bhadra**
(87) International Publication No	: NA	**2)Avijit Balabantaray**
(61) Patent of Addition to Application Number	:NA	**3)Sujit Kumar Sahoo**
Filing Date	:NA	**4)Dr.Sujata Chakravarty**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure proposes a multi-level elephant detection system that prevents accidents at railway tracks using three levels of security and detection by placing different sensors at each level near elephant corridors and reduces elephant accidents. The multi-level elephant detection system 100 comprises a primary level detection unit 101, a secondary level detection unit 104, a tertiary level detection unit 107, at least one sound emitting unit (not shown), a processing unit 110, and a notifying unit. The proposed system indicates presence of elephants using signal lights along the railway tracks in each security layer in real-time to the train driver. The proposed system utilizes advanced, budget friendly, cost effective equipment such as cameras, IR, PIR and piezoelectric sensors which are more convenient and efficient in sensing and detecting elephants. The system generates high frequency sounds in coordination with train timings along the elephant corridors to drive away elephants from railway tracks to prevent collision with trains. Further, the system provides a notification to the train driver, nearby railway office and forest personnel indicating presence of elephants at a specific detection level in the elephant corridor near the railway track.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/08/2020

(21) Application No.202031035686 A
(43) Publication Date : 11/09/2020

(54) Title of the invention : AUTOMATED PORTABLE DIAGNOSTIC SYSTEM AND METHOD FOR THE PATIENTS IN COVID HOSPITALS

(51) International classification	:A61B0005145500, G01N0035100000, A61B0005020500, F04C0023000000, G01N0021780000
(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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7)DR.SUBASH CH. NATH
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4)SWARNAPRABHA JENA
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6)MR.BARADA P.PANIGRAHY
7)DR.SUBASH CH. NATH
8)DR.SUSANTA KUMAR ROUT

(57) Abstract :
The proposed device is a ICT enabled centralized patient monitoring device which can be used for covid hospitals and will help the hospital staff(Paramedics) to monitor the body temperature of the covid 19 patients in emergency medical situations who are seriously ill with the aim of stabilizing them without moving to their place. It will also monitor the patients movement activity with respect to other persons and give warning to maintain social distancing

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/09/2020

(21) Application No.202031039046 A
(43) Publication Date : 16/10/2020

(54) Title of the invention : METHOD AND AUTOMATED SAFETY EQUIPMENT FOR QUICK DETECTION OF BIOLOGICAL EVENTS OF HOSPITALIZED PATENTS FOR COVID THEREOF.

(51) International classification	:A61K0045060000, A61B0005020500, G01N0033543000, A61B0005145000, A61K0031546000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)DR.SUJATA CHAKARVARTY
4)SWARNAPRABHA JENA
5)SUBRAT KUMAR PRADHAN
6)MR.BARADA P.PANIGRAHY
7)MR.SUBAS CH.NATH
8)DR.SUSANTA KUMAR ROUT
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3)DR.SUJATA CHAKARVARTY
4)SWARNAPRABHA JENA
5)SUBRAT KUMAR PRADHAN
6)MR.BARADA P.PANIGRAHY
7)MR.SUBAS CH.NATH
8)DR.SUSANTA KUMAR ROUT

(57) Abstract :
The proposed invention is a safety equipment and method involves detecting Biological events relate to the patients admitted in hospital with special reference to COVID and out patients regarding monitoring of the health of an individual. The individual wears a health monitoring device, with an attached mask, capable of sensing characteristics of the individual assigning disease event. It can help to monitor the body temperature of a person and intimate about not maintaining the social distance. This smart face shield is to provide an extra layer of protection and to protect the eyes when in close contact with someone that has or is suspected to have COVID-19. The device allows individuals to constantly monitor their health without having to physically visit a doctor or other health care professional.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2020

(21) Application No.202031048523 A
(43) Publication Date : 11/12/2020

(54) Title of the invention : SYSTEM AND METHOD FOR HEALTH CARE DATA PROCESSING THROUGH LOT BY USING BLOCKCHAIN TECHNOLOGY

(51) International classification :G06F16/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The proposed invention elaborates the Blockchain phenomenon for ensuring the security and transparency of patients record, document accessibility and shipment process among provider and customer. Further, the need of blockchain in healthcare is that it would capture the intermediates activity, patients record information or medicine shipment phenomenon from IoT objects committed to components moves from one place to another or from provider and customer. The illegal activity happening at any part of the communication process can be traced easily. However, the experimental analysis of the proposed model has been measured upon the illegal activities or communications done by malevolent IoT objects.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202041052200 A
(43) Publication Date : 11/12/2020

(54) Title of the invention : HERBAL CAKE COMPOSITION FOR GASTRITIS AND PREPARATION METHOD FOR THE SAME

(51) International classification :A61K 36/752
(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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10)Dr.N.Padmaja
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13)Mr.Ajay Kumar Prusty

(57) Abstract :
ABSTRACT: Title: Herbal Cake Composition for Gastritis and Preparation Method for the Same The present disclosure proposes a herbal health product for treating gastritis patients with better efficiency that contains low-sugar and low fat with ease to intake the product by the patient. The method of preparation provides the composition in the form of a cake that enables the user to consume the herbal cake with ease and enhanced interest. The proposed herbal cake composition utilizes amla seed powder that aids to relieve inflammation and infection associated with uterus and cervix and helps to reduce gastric problems and gastritis and utilizes jamun seed powder that aids to combat sores, inflammation and ulcers in the intestines. The herbal cake composition is prepared using a preparation method that mixes the amla seed powder and the jamun seed powder separately in order to avoid loss of individual medicinal properties.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2021

(21) Application No.202141010684 A
(43) Publication Date : 19/03/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SMART TOUCHLESS MEDICINE DISPENSING SYSTEM

(51) International classification	:G07F0017000000, G06Q0050220000, G16H0020130000, A61J0007000000, G16H0020100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
In this pandemic era, technology dependent solutions are demanded for preventing the spread of contagious disease COVID-19 as the medical officers have themselves become victim to the disease while treating the patients. Eventually, the patients has to be cured which is possible by providing timely medication. This invention proposes an autonomous touchless medicine dispensing system for providing service to victims in the hospital ward based on Artificial Intelligence algorithm. Lack of experienced medical officers, also leads to huge death of human life. The proposed system is an innovative robotic mobile system able to provide timely medication to save human life to greater extent without the issue of pandemic spread. 3D modeling of the system is done using Pro- Engineer software. The system is able to detect specific patient using infrared technique which scans the unique digital code allocated for the patient bed. Dispensing of the medicine is done based on infrared counter where the medicines are dispensed based on doctor™s prescription. Medicines are dispensed touchless in disposable containers to every patient autonomously at their ward itself. This system is efficient in providing immediate medication without any considerable delay to the victims without human intervention.

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

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021102320

The Commissioner of Patents has granted the above patent on 9 June 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Satyasis Mishra of Professor, Electronics & Communication Engineering, Centurion University of Tech and Mgmt Bhubaneswar Odisha India

Title of invention:

Soil fertility in vermicomposting prediction utilizing WCA based Deep CNN-Model for the agricultural-domain

Name of inventor(s):

Satapathy, Sunita; Nayak, Yashaswi; Satapathy, Kunja Bihari; Biswal, Susanta Kumar and Mishra, Satyasis

Term of Patent:

Eight years from 2 May 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 9th day of June 2021

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103242

The Commissioner of Patents has granted the above patent on 3 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Prevention of food harmfulness from production to customer for centralized kitchen facility using IoT

Name of inventor(s):

Bhaskaran, R.; Dekate, Hiren; Kumar, P. Ravindra; Gurusamy, M.; Kumar, D. Krishna; Swarupa, P. Uma; Sangale, Mohan Dattu; Katakam, Satyanarayana; Rout, Sandeep and Prusty, Ajay Kumar

Term of Patent:

Eight years from 4 November 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 3rd day of March 2021

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100000

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Title of invention:

A method to measure the air pollution impact on terrestrial and natural vegetation in urban locations

Name of inventor(s):

Dekate, Hiren Madhukar; Velagaleti, Sesha Bhargavi; Abhishek, Ashok; Rout, Sandeep; Bhatt, Rajesh; Kannan, G.R.; Chakrabarti, Tulika; Hati, Ananda Shankar; Prusty, Ajay Kumar; Patra, Sitanshu Sekhar; Chakrabarti, Prasun and Ranjith Kumar, R.

Term of Patent:

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 3rd day of March 2021

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100002

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Title of invention:

TECHNIQUE TO GIS MODELLING OF WATER BODIES BY MAPPING RIPARIAN VEGETATION ALONG THE SHORE

Name of inventor(s):

Mahendran, S.; Nair, Deepa; Rout, Sandeep; Sabitha, R.; Uma, K; A, Prathik; Chakrabarti, Tulika; Patra, Sitanshu Sekhar; Prusty, Ajay Kumar; Pradhan, Kalyani; H.N, Reddappa and Chakrabarti, Prasun

Term of Patent:

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 3rd day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

This data, for application number 2021100002, is current as of 2021-03-18 21:00 AEST

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2021

(21) Application No.202141004378 A

(43) Publication Date : 05/02/2021

(54) Title of the invention : ECLIPTA ALBA BASED COMPOSITION FOR HAEMORRHOIDS AND ITS PREPARATION METHOD THEREOF

(51) International classification :A61K 36/00

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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14)Dr.P.Sri Rama Murthy

(57) Abstract :

ABSTRACT: Title: Eclipta Alba based Composition for Haemorrhoids and its Preparation Method Thereof The present disclosure proposes an edible composition with eclipta alba for the treatment of haemorrhoids without any additional herbal ingredients. The edible eclipta alba composition for haemorrhoids does not have any side effects. The proposed eclipta alba composition can be prepared at home by the patient with ease. The edible composition also aids to treat other stomach related ailments such as heat. The edible composition treats haemorrhoids with enhanced efficiency.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/04/2021

(21) Application No.202141018335 A
(43) Publication Date : 30/04/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED ANIMAL DETECTION AND IDENTIFICATIO FOR PROTECTION OF FIELD CROPS

(51) International classification	:A01M0029160000, G06Q0050020000, A01M0029100000, G06K0009620000, A01M0031000000
(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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15)Mrs.Lipsa Dash

(57) Abstract :
ABSTRACT: Title: Artificial Intelligence Based Animal Detection and Identification System for Protection of Field Cr
present disclosure proposes an artificial intelligence based animal detection and identification system for protection of f
The system comprises of an animal detection module 101, a video capturing module 102, a position detection module 1
processing module 104, a projection module 105, and a sound producing module 106. The system 100 system protects t
from wild animals by projecting 3-D image along with sounds of a natural enemy animal. The proposed system projects
three dimensional images of multiple natural enemy animals based on number of the identified animals in the protection
system is capable of detecting animals in any climate condition, such as in hot weather condition. The proposed system
harm to the animals or the environment, or inconvenience to humans who might enter the protected area.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2021

(21) Application No.202131001373 A
(43) Publication Date : 12/02/2021

(54) Title of the invention : SMART ATTENDANCE AND BODY TEMPERATURE MONITORING SYSTEM AT WORKING SITE.

(51) International classification	:G07C0001100000, H04N0007180000, G06Q0010060000, B63H0001000000, H04L0029080000
(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
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(57) Abstract :
The proposed invention (Device) provides an attendance system to the working place. The system also used for safety and security in critical regions such as Offices, working places,airports, railway-stations and classroom attendance etc. The objective of this invention is to automate the person"s identity at the check-in point and to monitor the body temperature of the covid 19 patients in emergency medical situations who are seriously ill with the aim of stabilizing them without moving to their place. This motivation includes reduced manual process, staffing and shorter processing times. The proposed technology that promises greater convenience for users by simplifying and speed up the process.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/06/2021

(21) Application No.202131028359 A
(43) Publication Date : 16/07/2021

(54) Title of the invention : METHODS AND SYSTEMS FOR AGRICULTURAL WORK BY SMART AGRICULTURE FIELD BOUNDARY WITH AI & ICT

(51) International classification	:A01B0079000000, G06Q0050020000, A01B0069040000, G06T0005000000, A01D0041127000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to monitoring, controlling and analyzing the today's farming environment through smart devices in the agriculture field without creating any harm to human being or animals and also it will not create any environmental pollution. More specifically it relates to the agriculture land safety using IoT devices with cost efficient real time surveillance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/07/2021

(21) Application No.202141033481 A
(43) Publication Date : 06/08/2021

(54) Title of the invention : INTELLIGENT SYSTEM FOR SATELLITE COMMUNICATION FROM MOBILE DEVICES TO PUBLIC LAND MOBILE NETWORKS USING IOT & METHOD THEREOF

(51) International classification	:H04B0007185000, H04L0029080000, H04W0088180000, H01Q0021060000, H04W0004060000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to intelligent system for satellite communication from mobile devices to public land mobile networks using IOT & method thereof. The objective of the present invention is to solve the problems in the prior art technologies related to satellite communication from mobile devices to public land mobile networks

No. of Pages : 30 No. of Claims : 4

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021104155

The Commissioner of Patents has granted the above patent on 25 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Raj Kumar Joshi of Department of Biotechnology, Rama Devi Women's University, Bhubaneswar Odisha 751022 India

Title of invention:

METHOD FOR MOLECULAR MAPPING AND DEVELOPING DIAGNOSTIC MARKERS FOR DETECTING ANTHRACNOSE RESISTANCE IN CHILI PEPPER

Name of inventor(s):

Mishra, Rukmini; Joshi, Raj Kumar; Rout, Ellojita and Mohanty, Jatindra Nath

Term of Patent:

Eight years from 14 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 25th day of August 2021

Commissioner of Patents

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Register of Patents

Patents Act 1990

Innovation Patent Patent no: 2021104564

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Title: SMART FRAMEWORK FOR PROVIDING PRIVACY AND PROTECTION IN BLOCK CHAIN BASED PRIVATE TRANSACTIONS USING CLOUD COMPUTING APPROACH

Term: Eight years from 26 July 2021

Date Granted: 8 September 2021
Date Certified:
Date of Patent: 26 July 2021
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Expiry Date: 26 July 2029
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Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
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सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202131042186
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/09/2021
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TITLE OF INVENTION	HYBRID STATISTICAL MODEL TO DISTRIBUTED SERVER ON CLOUD COMPUTING ENVIRONMENT
FIELD OF INVENTION	COMMUNICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/10/2021

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021105189

The Commissioner of Patents has granted the above patent on 27 October 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

A METHOD FOR CREATING NOVEL ANTHRACNOSE RESISTANT PEPPER PLANTS USING GENOME MODIFICATION TECHNIQUE

Name of inventor(s):

Joshi, Raj Kumar; Mishra, Rukmini; Mohanty, Jatindra Nath and Mahanty, Bijayalaxmi

Term of Patent:

Eight years from 9 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 27th day of October 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/10/2021

(21) Application No.202141049308 A
(43) Publication Date : 05/11/2021

(54) Title of the invention : A SYSTEM FOR ENCODING AND DECODING DATA USING CLOUD COMPUTING AND METHOD THEREOF

(51) International classification :H04N0019176000, H04N0019440000, G06T0017200000, H04N0019700000, H04N0019170000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
[034] The present invention discloses a system for Encoding and Decoding Data Using Cloud Computing and method thereof. The system includes, but not limited to, an encoding syntax data information provided on a cloud computing in a quantized space from a coded bitstream, wherein the syntax data information comprising dividing information and adaptive geometry quantization information for a bounding box of the point cloud; a decoder provided on a cloud computing in a quantized space from a coded bitstream, and dividing a bounding coded unit of the point cloud into a plurality of parts based on the dividing the data information; a processing unit configured to determine quantization parameters for the parts in a bounding coded unit based on the adaptive geometry quantization information; and reconstructing a plurality of points in each of the parts in the bounding coded unit of the point cloud based on the quantization parameter for the respective part in the bounding coded unit. Accompanied Drawing [FIG. 1]

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

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
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Government of India

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202131050687
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/11/2021
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TITLE OF INVENTION	A SYSTEM BASED ON DEEP LEARNING THREE-DIMENSIONAL PIPELINE RECONSTRUCTION AND METHOD THEREOF
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/12/2021

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202141047288
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/10/2021
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TITLE OF INVENTION	AN IMAGE PROCESSING SYSTEM WITH CONVOLUTIONAL NEURAL NETWORK MODULES AND METHOD THEREOF
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/11/2021

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202131033044
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/07/2021
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FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/12/2021

Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202141043000 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : A Novel Multimodal Medical Image Fusion System with Pixel Level Fusion

(51) International classification :G06T0005500000, A61B0006000000, G06T0005000000, G06T0007000000, G06T0011000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Image Capturing Devices have quality limitations and their quality limitations can be overcome with the Image Fusion methods. Because of the poor quality of images collected by image capturing systems, the necessity for image fusion in medical imaging has increased dramatically. Different Image Capturing Systems produces different Image Modalities which are fused to improve the quality to diagnose the patient deceases. The information present in the image can be improved by the fusion in different image modalities such CT Images, MR Images, PET Images, and SPECT Images and so on. There is need for developing a fusion system that can be capable of fusing the multiple modality images with more quality and less noise. The present invention disclosed herein is a Novel Multimodal Medical Image Fusion System with Pixel Level Fusion comprising of: Input Image-1 (201); Input Image-2 (202); 2-Level DWT (203); 2-Level DWT (204); PLM Fusion (205); MWGF (206); Inverse DWT (207); PLM Fusion (208); PLM Fusion (209); Entropy (210); Fused Image (211); provides an efficient multimodal image fusion method to improve the quality and understanding the information present in the multimodal images. The present invention uses Discrete Wavelet Transform, Pixel Level Maximum (PLM) and Modified Weighted Gradient Fusion (MWGF). The performance metrics such as Peak Signal-to-Noise Ratio (PSNR) of 78.421, Structural Similarity Index (SSIM) of 0.964, and Standard Deviation of 0.32 are achieved with the present invention disclosed. The present invention is implemented on the Matlab R2019 (a) environment and the dataset is taken from the openly available repositories.

No. of Pages : 16 No. of Claims : 9

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2021 106 308

Bezeichnung:

Multifunktionaler Kabinensitz für Passagierflugzeuge mit künstlicher Intelligenz

IPC:

B64D 11/06

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Tag der Anmeldung:
19.11.2021
Tag der Eintragung:
03.12.2021

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

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München, 03.12.2021

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Corporate Office: At - HIG - 4, Jaydev Vihar, Opp. Pal Heights, Bhubaneswar - 751013, Dist: Khurda, Odisha, India. **Website:** www.cutm.ac.in

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details

APPLICATION NUMBER	202231004407
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/01/2022
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FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/02/2022

Application Status

Australian Government
IP Australia

Register of Patents

Patents Act 1990

Innovation Patent Patent no: 2021103371

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Title: SOLAR ASSISTED IOT BASED AUTOMATIC VERTICAL MEDICINAL PLANT CULTIVATION OF CRITICALLY ENDANGERED PLANT NARDOSTACHYS JATAMANSI

Term: Eight years from 15 June 2021

Date Granted: 9 March 2022

Date Certified:

Date of Patent: 15 June 2021

Status: GRANTED

Expiry Date: 15 June 2029

Date Ceased:

Date Revoked:

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021103884

The Commissioner of Patents has granted the above patent on 23 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Epileptic Seizure Detection and Classification Using HOG feature based MSCA-ELM Model and Embedded Prototype Development

Name of inventor(s):

Mishra, Satyasis; Panda, Sreelekha; Mohanty, Mihir Narayan and Shaik, Asif Basha

Term of Patent:

Eight years from 6 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 23rd day of March 2022

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021103987

The Commissioner of Patents has granted the above patent on 6 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Kuldip Singh of Centurion University of Technology and, Management, Ramchandrapur, P.O. – Jatni, Bhubaneswar Dist: Khurda Odisha 752050 India

Satyasis Mishra of Centurion University of Technology and, Management, Ramchandrapur, P.O. – Jatni, Bhubaneswar Dist: Khurda Odisha 752050 India

Ramesh Chandra Mohanty of Centurion University of Technology and, Management, Ramchandrapur, P.O. – Jatni, Bhubaneswar Dist: Khurda Odisha 752050 India

Madhusmita Shial of Centurion University of Technology and, Management, Ramchandrapur, P.O. – Jatni, Bhubaneswar Dist: Khurda Odisha 752050 India

Susanta Kumar Biswal of Centurion University of Technology and, Management, Ramchandrapur, P.O. – Jatni, Bhubaneswar Dist: Khurda Odisha 752050 India

Title of invention:

A RPMS SYSTEM FOR POWER MANAGEMENT AND POWER QUALITY IMPROVEMENT OF ISOLATED HYBRID MICROGRID

Name of inventor(s):

Singh, Kuldip

Term of Patent:

Eight years from 8 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 6th day of April 2022

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021104634

The Commissioner of Patents has granted the above patent on 20 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Satyasis Mishra of Centurion University of Tech and Mgmt Bhubaneswar Odisha 751009 India

Debendra Kumar Sahoo of Research Scholar, Centurion University of Tech and Mangmnt Bhubaneswar Odisha India

Davinder singh Rathee of Maharaja Agarsen University Baddi Himachal Pradesh India

Harish Kalla of Adama Science and Technology University Adama Ethiopia

Tiruveedula Gopikrishna of Adama Science and Technology University Adama Ethiopia

Mihir Narayan Mohanty of SOA University Bhubaneswar Odisha India

Pankaj Nagila of Maharaja Agarsen University, Baddi Baddi Himachal Pradesh India

Title of invention:

Prototype for Detection and Classification of Brain Tumor using CNN feature-based LLRBFNN Model

Name of inventor(s):

Mishra, Satyasis; Sahoo, Debendra Kumar; Rathee, Davinder singh; Kalla, Harish; Gopikrishna, Tiruveedula; Narayan Mohanty, Mihir; Nagila, Pankaj and Shaik, Asif Basha

Term of Patent:

Eight years from 27 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 20th day of April 2022

Commissioner of Patents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2022

(21) Application No.202241021062 A
(43) Publication Date : 22/04/2022

(54) Title of the invention : Launching System and Method for Bridge Construction Using Pre-Stressed Structures

(51) International classification	:E01D0021000000, E01D0021060000, E01D0015120000, E01D0019120000, E01D0101280000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :Tekkali Village, Nellimarla Mandal, Vizianagaram, Andhra Pradesh, India – 535003 ---------- ----------
-
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. M.L.N.Acharyulu
Address of Applicant :# 1-67-27/1/1, Near Girijan Corporation Guest House, M.V.P.Colony, Visakhapatnam-530017, Andhra Pradesh, India ---------- ----------

(57) Abstract :
ABSTRACT: Title: Launching System and Method for Bridge Construction Using Pre-Stressed structures The present disclosure proposes a launching system and method for bridge construction using pre-stressed structures. The launching system comprises plurality of pre-stressed structures 102, a bridge launching unit 104, and a bridge receiving unit 108. The proposed launching system and method provides an effective bridge construction in case of emergency with no heavy machinery and minimum labour. The proposed low-cost bridge construction aids in the fast restoration of traffic and causes less inconvenience to the public during emergencies. The proposed launching system for bridge construction method allows for faster bridge construction in case of emergency situations such as heavy floods or any incidents.

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

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2021/10561

A copy of the complete specification is annexed, together with the relevant Form P2.

timony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **25th** day of **May 2022**

.....

Registrar of Patents

REPUBLIC OF SOUTH AFRICA | REGISTER OF PATENTS | PATENTS ACT, 1978

Official application No.	Lodging date: Provisional	Acceptance date
21 01 **2021/10561**	22	47 2022/03/30
International classification	Lodging date: Complete	Granted date
51 B09C	23 2021/12/17	2022/05/25

71 Full name(s) of applicant(s)/Patentee(s):

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT
Centurion University of Technology and Management~Odisha 752050, India

71 Applicant substitued:	Date registrered
71 Assignee(s):	Date registrered

72 Full name(s) of inventor(s):

SAHOO, Shraban Kumar
PANIGRAHI, Gagan Kumar
PRADHAN, Arun Kumar
SAHOO, Annapurna
SATAPATHY, Kunja Bihari
DALBEHERA, Anuesha

Priority claimed:	Country	Number	Date

54 Title of invention

A SYSTEM FOR SYNTHESIZING ZNO-ZNFE2O4 NANOPARTICLES AND INVESTIGATING THEIR ROLE IN THE WASTE WATER REMEDIATION

Address of applicant(s)/patentee(s):

Centurion University of Technology and Management~Odisha 752050
INDIA

74 Address for service

Wolmarans and Susan Inc.
Corner of Barry Hertzog Avenue and Empire Road, Johannesburg, 2092
SOUTH AFRICA
Reference No.

61 Patent of addition No.	Date of any change
Fresh application based on.	Date of any change

RENEWAL SHEET

Year	Payment Date	Receipt Number	Amount

HISTORY SHEET

Date entry made	Description
2021-12-20	Proof reading performed automatically
2021-12-20	Request for the acceptance of a Patent electronically filed on 17/12/2021, numbered 2021/10561
2022-03-30	Application accepted on 30/3/2022.
2022-05-24	Correction of clerical errors consisting of to correct the applicant address filed on 24/02/2022, by CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT.
2022-05-26	Patent advertised on 25-05-2022.
2022-05-26	Patent granted on 25-05-2022.

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2021/10562

y of the complete specification is annexed, together with the relevant Form P2.

In testimon f, the seal of the Patent Office has been affixed at Pretoria with effect from the **27th** day of **July 2022**

.....

Registrar of Patents

REPUBLIC OF SOUTH AFRICA | REGISTER OF PATENTS | PATENTS ACT, 1978

Official application No.	Lodging date: Provisional	Acceptance date
21 01 **2021/10562**	22	47 2022/06/03
International classification	Lodging date: Complete	Granted date
51 C05B	23 2021/12/17	2022/07/27

71 Full name(s) of applicant(s)/Patentee(s):

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT
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71 Applicant substitued:	Date registrered
71 Assignee(s):	Date registrered

72 Full name(s) of inventor(s):

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SAHOO, Shraban Kumar
SAHOO, Annapurna
ARUN KUMAR PRADHAN
KUNJA BIHARI SATAPATHY
ANUESHA DALBEHERA

Priority claimed:	Country	Number	Date

54 Title of invention

A SYSTEM FOR ENHANCING PLANT IMMUNITY AND PLANT GROWTH BY USING FABRICATED ZNO–ZNFE2O4 NANOPARTICLES

Address of applicant(s)/patentee(s):

Centurion University of Technology and Management, Odisha, 752050
INDIA

74 Address for service

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SOUTH AFRICA
Reference No.

61 Patent of addition No.	Date of any change
Fresh application based on.	Date of any change

RENEWAL SHEET

Year	Payment Date	Receipt Number	Amount

HISTORY SHEET

Date entry made	Description
2021-12-20	Proof reading performed automatically
2021-12-20	Request for the acceptance of a Patent electronically filed on 17/12/2021, numbered 2021/10562
2022-06-03	Application accepted on 3/6/2022.
2022-06-21	Correction of clerical errors consisting of to add inventors filed on 03/06/2022, by CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT.
2022-07-28	Patent advertised on 27-07-2022.
2022-07-28	Patent granted on 27-07-2022.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/05/2022

(21) Application No.202231026515 A
(43) Publication Date : 10/06/2022

(54) Title of the invention : Portable Photovoltaic Mounting Assembly for Agrivoltaics

(51) International classification	:F24S0025120000, H02S0020100000, H02S0040220000, H02S0020300000, F24S0025000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
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2)Dr. Ramesh Chandra Mohanty
Address of Applicant :Department of Mechanical Engineering, Centurion University of Technology & Management (CUTM) Bhubaneswar, Odisha-752050 India ---------- ----------
3)Prof. Jagannath Padhi
Address of Applicant :Department of Electrical Engineering, Centurion University of Technology & Management (CUTM) Bhubaneswar, Odisha-752050 India ---------- ----------

(57) Abstract :
ABSTRACT: Title: Portable Photovoltaic Mounting Assembly for Agrivoltaics The present disclosure proposes a portable and adjustable photovoltaic mounting assembly for agrivoltaics that enables mutual sharing of sunlight between farm and solar panels and thereby increases land productivity and revenue of farmers. The photovoltaic mounting assembly 100 comprises at least one solar panel 102, at least one mounting support 104, at least a pair of vertical support members, and plurality of ground support members 110.The usage of photovoltaic panels on the farm lands to enhance the socio-economic indicators such as Benefit-Cost Ratio (BCR), Payback Period (PBP), and Land Equivalent Ratio (LER) of the system. The adjustable photovoltaic mounting assembly provides sufficient amount of sunlight to transfer underneath the mounting assembly for better photosynthesis and food production.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/07/2022

(21) Application No.202231039408 A
(43) Publication Date : 29/07/2022

(54) Title of the invention : Polycentric Knee Joint for Improved Stability and Flexion

(51) International classification :A61F0002640000, A61F0002380000, A61F0002680000, A61F0005010000, A61F0002500000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi, Gajapati District, Odisha, India – 761211 Parlakhemundi ---------- ----------
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(72)**Name of Inventor :**
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2)Ramesh Chandra Mohanty
Address of Applicant :Ph.D.Professor, Department of Mechanical Engineering Centurion University of Technology and Management Bhubaneswar, Odisha, India. 752050 Bhubaneswar ---------- ----------
3)Sukanta Kumar Sabut
Address of Applicant :Ph.D., Associate Professor, School of Electronics Engineering, KIIT Deemed to be University, Bhubaneswar, Odisha, India - 751024 Bhubaneswar ---------- ----------

(57) Abstract :
ABSTRACT: Title: Polycentric Knee Joint for Improved Stability and Flexion The present disclosure proposes a knee prosthesis designed with a polycentric four-bar linkage mechanism for enhanced knee stability and better swing clearance. The polycentric knee joint comprises a coupling unit, an upper knee unit 106, a lower knee unit 116, a linking means, and a bumper 114. The hinged joint motions of the upper knee unit and the lower knee unit enable kinematic forward and backward gliding movements. The movements limit the free swing of the knee with minimum resistance and help in better swing clearance. The polycentric knee joint is to manufacture a cost-effective knee prosthesis using simple mechanical components. Further, the proposed prosthesis knee joint design allows a low profile design to suit long transfemoral residual limbs.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/02/2021

(21) Application No.202131004379 A
(43) Publication Date : 05/08/2022

(54) Title of the invention : SYNTHESIS OF AMINOCYANOPYRIDINES USING UREASE MIMETICS

(51) International classification	:H04N0005262000, C07F0015040000, C07F0005000000, H01L0051000000, C12N0009800000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :At-Alluri Nagar, PO-R.Sitapur, Via-Uppalada, Gajapati District, Parlakhemundi-761211, Odisha, India. Orissa India
(72)**Name of Inventor :**
1)Bidyut Kumar Kundu
2)Suman Mukhopadhyay
3)Pragti

(57) Abstract :
The present disclosure proposes a method of synthesis of aminocyanopyridines that utilizes two dinuclear nickel(II) complexes with mannich bases as primary ligand and acetate as co-ligand. The dinuclear nickel complexes are utilized to produce aminocyanopyridines in the one-pot synthesis that work as functional urease mimetic system. Further, the processing cost reduced by providing dinuclear complexes with enhanced thermal stability that aids the one-pot synthesis. The produced aminocyanopyridines can be utilized as an alternative for commercially available blue range dyes and cancer cells imaging. The synthesized aminocyanopyridines target some specific organelles inside the cell which can be further utilized for the development of organelle cell tracking.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2022

(21) Application No.202231056036 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : 3-(2-Amino-5-hexylphenyl) Propanoic Acid for Treatment of Severe Acute Respiratory Syndrome (SARS) Coronavirus 2

(51) International classification :C07K0014005000, A61K0039000000, A61K0039215000, C12P0021000000, A61K0039120000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
(62) Divisional to Application Number :NA Filing Date :NA

(71)**Name of Applicant :**
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Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
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2)Dr. Bhisma Narayan Ratha
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3)Dr. Sagar Kumar Mishra
Address of Applicant :Lecturer, University Department of Pharmaceutical Sciences, Utkal University, Vani Vihar, Bhubaneswar-751004, Odisha, India. Bhubaneswar ---------- ----------

(57) Abstract :
ABSTRACT: Title: 3-(2-Amino-5-hexylphenyl) propanoic acid for Treatment of Severe Acute Respiratory Syndrome (SARS) Coronavirus 2 The present disclosure proposes 3-(2-Amino-5-hexylphenyl) propanoic acid for treatment of severe acute respiratory syndrome (SARS) Coronavirus. The formula (3) is 3-(2-Amino-5-hexylphenyl) propanoic acid that inhibit various SARS corona virus proteins. The 3-(2-Amino-5-hexylphenyl) propanoic acid is designed by using in silico Fragment based design. The proposed cost-effective anti-SARS compound provides minimal toxicity and high efficacy. The proposed anti-SARS compound inhibit many SARS Corona virus proteins like, Main Protease or 3CLpro, Papain Like Protease, nsp12-nsp7-nsp8 complex-RNA Dependent RNA Polymerase Complex of NSP7 with NSP8 –Primase, etc.

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

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202231062139
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/10/2022
APPLICANT NAME	**1 . Dr.Ashish Kumar Sarangi** **2 . Dr.Alok Ranjan Sahu** **3 . Dr.Rudra Narayan Sahoo** **4 . Dr.Bhabani Sankar Satapathy** **5 . Dr.Ranjan Kumar Sahoo** **6 . Mr.Durga Prasad Mishra** **7 . Mr.Swarnajeet Tripathy** **8 . Mrs.Binapani Barik** **9 . Mr.Sanjib Kumar Naik** **10 . Miss.Rasmita Dash**
TITLE OF INVENTION	A SYSTEM PROVIDED WITH NEXT-GENERATION COMPUTING TECHNOLOGY FOR PRECISION MEDICINE AND METHOD THEREOF
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	tumula.githam@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202231062715
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/11/2022
APPLICANT NAME	**1 . Dr.Ashish Kumar Sarangi** **2 . Dr.Sushil Kumar Bhoi** **3 . Mr.Jayanta Kumar Panigrahi** **4 . Dr.Bikash Meher** **5 . Dr.Asini Kumar Baliarsingh** **6 . Mr.Nabin Kumar Naik**
TITLE OF INVENTION	AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING-BASED SURVEILLANCE SYSTEMS TO MONITOR REAL TIME CROP GROWTH AND METHOD THEREOF
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202231023168
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/04/2022
APPLICANT NAME	1 . Dr. Ramesh Chandra Mohapatra 2 . Mr.Adiraj Behera 3 . Dr.Venkataramana Kandi 4 . Dr.Azaj Ansari 5 . Dr.Ashwani Kumar Sharma 6 . Dr.Taghreed Hashim Al-Noor 7 . Dr.Marei M. El-ajaily 8 . Dr. Khalil El-Hami 9 . Dr.Ashish Kumar Sarangi 10 . Dr. Ranjan Kumar Mohapatra
TITLE OF INVENTION	A MACHINE LEARNING BASED INTEGRATED IOT HEALTHCARE SYSTEM FOR CANCER CARE WITH WSN MODULES AND METHOD THEREOF
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	tumula.githam@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/05/2022

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202231063326
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/11/2022
APPLICANT NAME	1 . Dr.Ashish Kumar Sarangi 2 . Dr.Prafulla Kumar Sahu 3 . Dr.Rudra Narayan Sahoo 4 . Dr.Bhabani Sankar Satapathy 5 . Dr.Alok Ranjan Sahu 6 . Dr.Kalpita Bhatta 7 . Mrs.Annanya Gangopadhyay 8 . Mr.Nageswar Panda 9 . Mr.Abhisek Sahu
TITLE OF INVENTION	AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED SYSTEM IN CULTIVATION OF MICROBIAL STRAINS AND METHOD THEREOF
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/11/2022

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202231063516
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/11/2022
APPLICANT NAME	**1 . Dr.Ashish Kumar Sarangi** **2 . Dr.Bikash Meher** **3 . Dr.Sushil Kumar Bhoi** **4 . Dr.Deepa Das** **5 . Mr.Nabin Kumar Naik** **6 . Dr.Purnendu Mishra** **7 . Mr.Alpesh Kumar Dauda** **8 . Mr. Ashok Kumar Bhoi**
TITLE OF INVENTION	AN IOT BASED IMAGE PROCESSING SYSTEM FOR MEDICAL APPLICATIONS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	tumula.githam@gmail.com
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/11/2022

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2022

(21) Application No.202241050364 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : Design And Construction of Prefabricated Skeleton Structures

(51) International classification	:A61K0036750000, G01R0033563000, A61P0011060000, A61P0003100000, C07D0417040000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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7)Dr. Manik Deshmukh
8)Mr. Akash Sood
9)Mr. Krushna Chandra Sethi
10)Mr. Ankeshit Srivastava
11)Mr. L. Karthick
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(57) Abstract :
[05] The utility model features an assembled structure of a prefabricated steel-concrete shear wall, which belongs to the technical field of application of the shear wall mounted, and solves the problems of low structural strength of the existing shear wall, unstable anchoring of steel bars and shear wall failure in earthquakes. The technical points of the problem which is sometimes easy to fall apart are: including external shear wall mount plate, cast-in-place concrete wall, tension skeleton, internal shear wall mount plate and vertical reinforcement frame, plate Shear Shear Wall Mounting Plates and Shear Inner Wall Mounting Plates are fixed to the precast steel concrete shear wall by high strength screws; It is convenient to assemble the reinforced skeleton and ensure its stable structural strength, and then pour concrete to form a cast-in-place concrete wall; the inner and outer side walls The top fixed shear wall mount plate can accelerate the construction speed of precast steel concrete shear wall and improve the construction quality of steel concrete shear wall, greatly simplifying construction process, making assembly work easier and improving work efficiency. Accompanied Drawing [FIG. 1] [FIG. 2][FIG. 3] [FIG. 4]

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202241064085
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/11/2022
APPLICANT NAME	1 . Mr.Jitendra Debata 2 . Ms.Akula Rajitha 3 . Dr.Himansu Bhusan Samal 4 . Dr.Gyanranjan Mahalik 5 . Dr.Arun Kumar Mahato 6 . Dr.Nihar Ranjan Kar 7 . Dr.C.Nithya Shanthi 8 . Mr.Dhiraj Kumar 9 . Ms.Nigar Kadar Mujawar 10 . Ms.Ashwini Rajendra Suryawanshi
TITLE OF INVENTION	AN ARTIFICIAL INTELLIGENCE BASED 3D PRINTED MEDICINES FOR EFFECTIVE TREATMENT OF PATIENTS AND METHOD THEREOF
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202241065549
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/11/2022
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TITLE OF INVENTION	Novel nano formulations-based drugs for enhanced bioavailability
FIELD OF INVENTION	CHEMICAL
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PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status

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Department of Industrial Policy & Promotion,
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Application Details	
APPLICATION NUMBER	202241062660
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/11/2022
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TITLE OF INVENTION	A secure routing protocol in opportunistic internet of things network using machine learning approach.
FIELD OF INVENTION	COMMUNICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/11/2022

Application Status

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Department of Industrial Policy & Promotion,
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Government of India

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Application Details	
APPLICATION NUMBER	202241065251
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/11/2022
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TITLE OF INVENTION	IOT based irrigation system using soil moisture sensor in agriculture field
FIELD OF INVENTION	MECHANICAL ENGINEERING
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202241062141
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/11/2022
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TITLE OF INVENTION	Automatic detection and classification of eye disease using convolution neural network and image processing
FIELD OF INVENTION	BIO-CHEMISTRY
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/11/2022

Application Status

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/03/2022

(21) Application No.202241011193 A

(43) Publication Date : 11/03/2022

(54) Title of the invention : MACHINE LEARNING APPROACH TO ANALYZE THE POSITIVE TRAITS RELATED TO STOCK TRADING

(51) International classification :G06Q0040040000, G06K0009620000, G06N0020000000, G06N0003080000, C12Q0001180000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :
Machine learning approach to analyse the positive traits related to stock trading is the proposed invention. The invention focuses on studying the positive aspects of stock trading since they have many negative attributes as well. The proposed invention trains a machine learning model and implements the invention using algorithms of classification and prediction.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/02/2022

(21) Application No.202211010470 A

(43) Publication Date : 11/03/2022

(54) Title of the invention : IN SILICO BASED STUDY TO PREDICT AND ANALYSE DRUG MOLECULES FOR TARGETING CANCEROUS CELLS

(51) International classification :A61K0039395000, A61K0047600000, G16B0015000000, A61K0009127000, A61K0031470900

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

(87) International Publication No : NA

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

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

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(57) Abstract :
In silico-based study to predict and analyses drug molecules for targeting cancerous cells is the proposed invention. The proposed invention aims at implementing in silico technique to study the targeting of drug molecules through which therapeutic treatment will be successful. The proposed invention will revolutionize the drug delivery system.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/03/2022

(21) Application No.202211013212 A

(43) Publication Date : 18/03/2022

(54) Title of the invention : MACHINE LEARNING BASED MODEL TO PREDICT THE CHARACTERISTICS OF NEXT GENERATION BASED ON DNA SEQUENCES

(51) International classification :G06N0020000000, G06N0003080000, G05B0013040000, G16B0030000000, G06N0005000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
Machine learning based model to predict the characteristics of next generation based on DNA sequences is the proposed invention. The invention focuses on identifying the traits of DNA sequences that will be passed over to the next generation. The proposed invention will also help to predict the various aspects regarding health aspects can be analysed using machine learning approach.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/03/2022

(21) Application No.202241013549 A

(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGNING A ROBOT WITH DIELECTRIC MATERIAL TO WORK IN HIGH VOLTAGE ELECTRIC ENVIRONMENT

(51) International classification :B25J0009160000, B25J0019000000, B25J0011000000, G05B0013040000, B25J0005020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :
Designing a robot with dielectric material to work in high voltage electric environment is the proposed invention. The invention focuses on designing a robot that can replace humans who work in cautions and dangerous environments. The proposed invention will revolutionize the working model of electricity board by implementing robots to their work.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202211013548 A
(43) Publication Date : 01/04/2022

(54) Title of the invention : NANO ELECTRONICS BASED SOLAR CELLS FOR EFFICIENT PERFORMANCE OF ABSORPTION OF SOLAR ENERGY

(51) International classification :H01L0031054000, H02J0007350000, H01L0051420000, H01L0031023600, C02F0001140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Nano electronics based solar cells for efficient performance of absorption of solar energy is the proposed invention. The invention focuses on utilizing the nano electronics technology to be integrated with solar cells. This concept will utilize the solar energy to the maximum by increasing the absorption capacity of solar cells.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202231011883 A
(43) Publication Date : 08/04/2022

(54) Title of the invention : NOVEL COMPRESSIVE SENSING TECHNIQUE TO RETRIEVE THE IMAGES OR VIDEOS OF MULTI MODALITIES FOR ANALYZING LUNG CANCER

(51) International classification :G06K0009620000, G06N0003040000, G01R0033560000, G06T0007330000, G01R0033480000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Novel compressive sensing technique to retrieve the images or videos of multi modalities or analysing lung cancer is the proposed invention. The proposed invention focuses on analysing the images that are captured using modalities such as MRI, CT, PET etc. These images are used by deep learning algorithms to find the exact condition of lung cancer and paving way for therapeutic treatment.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202231012165 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED TECHNIQUES TO SEGMENT THE IMAGES CAPTURED USING MULTIPLE MODALITIES FOR DEEPER ANALYSIS OF STAGES OF LUNG CANCER

(51) International classification :G01N0033000000, G06K0009620000, G06N0003040000, G06N0005020000, G01R0033560000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Artificial intelligence based techniques to segment the images captured using multiple modalities for deeper analysis of stages of lung cancer the proposed invention. The proposed invention aims at analysing the exact stage of cancer so that the concept of therapeutic treatment can be accomplished. The invention implements artificial intelligence to the images for automated detection and suggestions to health care professionals.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202221012862 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : SMART DIELECTRIC SYSTEM TO PROTECT THE HUMANS WORKING ON ELECTRIC POLES

(51) International classification :A61K0039395000, H01H0033666000, G06Q0020400000, G06F0021000000, H01Q0013240000
(86) International Application No :NA
Filing Date :NA
(87) 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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8)DIGVIJAY SHANKAR HOLE
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12)MADAN MOHAN M
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(57) Abstract :
Smart dielectric system to protect the humans working on electric poles is the proposed invention. The proposed invention aims at providing a smart system with dielectric material. The invention will protect the humans working with electric poles or any electric appliance for that matter will be protected with a blanket of dielectric material.

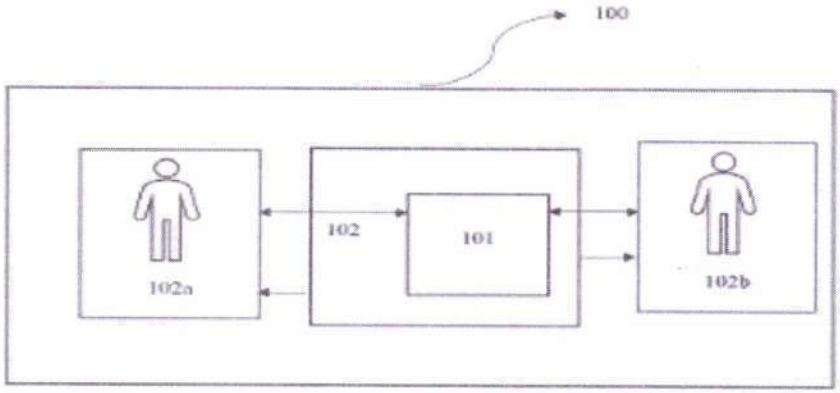

Figure 1: Schematic view

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202221011890 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO ANALYZE THE TRAITS OF DNA FOR FORENSIC INVESTIGATION

(51) International classification :G06N0020000000, C12Q0001687600, G06N0005000000, C12Q0001688800, G06T0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Machine learning based approach to analyse the traits of DNA for forensic investigation is the proposed invention. The invention aims at designing and implementing a machine learning based framework for analysing the traits of a DNA collected by forensic professionals. The invention will give a newer light and aspect to the way of analysing the DNA traits and the characteristics.

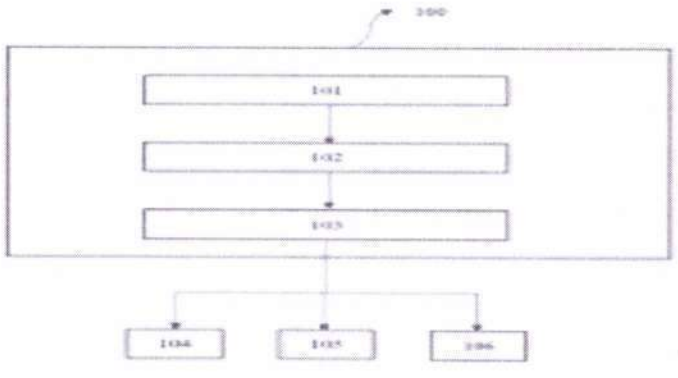

Figure 1: Block Diagram

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/03/2022

(21) Application No.202221011870 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO ANALYZE THE PROSOCIAL BEHAVIOUR OF COLLEAGUES OF E-COMMERCE SITE

(51) International classification :G06Q0010060000, G06N0020000000, G06K0009000000, A61K0039395000, G06K0009620000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
Machine learning based approach to analyze the prosocial behaviour of colleagues of e-commerce site is the proposed invention. The proposed invention focuses on implementing a framework that is based on machine learning to analyze the prosocial behaviors of employees such as kindness, compassion etc. The objective of the proposed invention is to predict the level of prosocial behaviors followed in a particular organization.

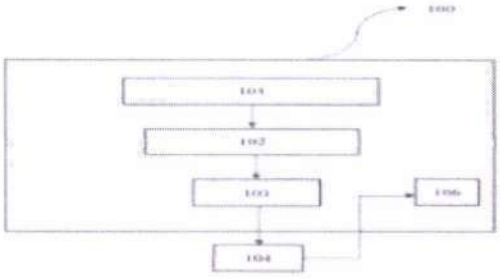

Figure 1. Block diagram

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/11/2022

(21) Application No.202211068166 A
(43) Publication Date : 02/12/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED DRUG DELIVERY SYSTEM FOR PREPARING MICROEMULSIONS WITH ENHANCED BIOAVAILABILITY AND METHOD THEREOF

(51) International classification :G06K0009620000, G06N0003040000, G06N0003080000, A61K0009107000, G06N0020100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses a drug delivery system by using Artificial Intelligence interfaces for preparing microemulsions to enhance bioavailability and working method thereof. In order to overcome the drawbacks of response surface methodology, such as the inaccurate estimation of the optimal emulsions, stable oil-in-water emulsions have been prepared using an AI interface capable of optimising and modelling the complex relationships between the formulation parameters and their effects on the quality of the finished product wherein the AI interface is also used to maximise the concentration of a fatty alcohol. Further, combining evolving Convolutional Neural Network (CNNs) with a support vector machine SVM for successfully predicting the types and internal architectures of microemulsions.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/09/2022

(21) Application No.202211053620 A

(43) Publication Date : 07/10/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO STUDY THE IMPACT OF TOPICAL NANO ADJUVANTS FOR ERADICATION OF SKIN CANCER

(51) International classification	A61K0031000000; G16H0050200000; A61K0039395000; G06N0020000000; C07K0014435000
(86) International Application No Filing Date	NA NA
(87) International Publication No	NA
(61) Patent of Addition to Application Number Filing Date	NA NA
(62) Divisional to Application Number Filing Date	NA NA

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(57) Abstract :
Eradication of Skin Cancer is the proposed invention. The proposed invention focuses on analysing the properties of nano adjuvants in eradicating skin cancer. The intention of the proposed invention Artificial Intelligence based approach to study the impact of Topical Nano adjuvants for is to study the efficacy of drug molecules when applied topically or externally. The algorithms of Artificial Intelligence are used for predicting the efficiency of nano materials in treating skin cancer.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/09/2022

(21) Application No.202231055096 A

(43) Publication Date : 21/10/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-BASED TECHNIQUE TO ANALYSE THE IMPACT OF NANOPARTICLES IN IMPROVING HAIR FOLLICLES

(51) International classification :A61Q0007000000, A61B0017340000, A61Q0005000000, A61K0039395000, A61F0002100000

(86) International Application No :PCT// Filing Date :01/01/1900

(87) International Publication No :NA

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

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

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(57) Abstract :
Artificial intelligence-based technique to analyse the impact of nanoparticles in improving Hair Follicles is the proposed invention. The proposed invention aims at designing a framework of Artificial Intelligence for analysing the condition of hairs. The scalp is imaged to look for hair follicles diameter. The direct delivery of nano particles to the hair roots is analysed to stop hair fall and improve hair growth.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/11/2022

(21) Application No.202241063289 A

(43) Publication Date : 25/11/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO PREDICT THE ROLE OF NANOPARTICLES IN TARGETING VENTRICULAR FIBRILLATIONS

(51) International classification :A61P0009000000, G06N0003020000, G16H0030400000, G16H0050300000, G06N0020000000

(86) International Application No :PCT// Filing Date :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :

Artificial Intelligence based approach to predict the role of nanoparticles in targeting Ventricular Fibrillations is the proposed invention. The invention focuses on utilizing the algorithms of Artificial Intelligence for treating heart disease efficiently. The proposed invention will analyze the heart condition in depth for predicting ventricular fibrillations at the earlier stage itself.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/11/2022

(21) Application No.202241064454 A

(43) Publication Date : 02/12/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO PREDICT THE IMPACT OF ANTI-MICROBIAL RESISTANCE FOR ANIMAL PRODUCTION

(51) International classification :G06N0020000000, G06Q0010000000, G06K0009620000, H04W0004029000, G06N0005000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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(57) Abstract :
Machine Learning based approach to predict the impact of Anti-microbial Resistance for Animal Production is the proposed invention. The invention aims at utilizing the algorithms of machine learning for predicting the impact of antimicrobial resistance. The proposed invention focuses on improving animal production through anti-microbial resistance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/11/2022

(21) Application No.202241065523 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : Nano-Drug Delivery System of Anti-Cancer drug and Method thereof

(51) International classification :A61P0035000000, A61P0043000000, A61K0009510000, A61K0045060000, A61K0031165000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT: Title: Nano-Drug Delivery System of Anticancer drug and Method thereof The present disclosure proposes a nano-drug delivery system of anticancer drug and the method thereof. The nano-drug delivery system 100 of anticancer drug provides a drug profile selection module 102, a nano-drug delivery module 104, an identification module 106, a risk assessment module 108, and a solvent addition module 110—the nano-drug delivery system 100 of anticancer drug aids in treating hormone-resistant prostate cancer. Minimum energy consumption is required, and the proposed system provides effective waste management while preparing the anticancer drug. The optimum formulations of the anticancer drug are developed with a minimum number of trial runs. In addition, the patient safety and effectiveness of the anticancer drug are enhanced by decreasing the patient's pill burden.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2022

(21) Application No.202241065250 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : Magnetic spinel ferrite nanoparticles (SFNPs) for targeted drug delivery of cytotoxic drugs in disease treatment

(51) International classification :A61K0009510000, C07F0015000000, B82Y0005000000, B01J0020280000, A61P0035000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
A nanotherapeutic that contains platinum complexes contained inside a nanoformulation that contains at least one spinel ferrite of the formula $CuFe_2O_4$, $NiFe_2O_4$, $CoFe_2O_4$, and $MnFe_2O_4$ placed on mesoporous silica. A method for the preparation of the nanotherapeutic that involves forming a powdery mixture by combining a metal(II) salt and a Fe(III) salt with the mesoporous silica nanoparticles, calcining the powdery mixture to form the nanoformulation, and then combining the nanoformulation with the platinum complex.

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

Deutsches
Patent- und Markenamt

An das
Deutsche Patent- und Markenamt
80297 München

(1) **Sendungen des Deutschen Patent- und Markenamts sind zu richten an:**

Name, Vorname / Firma
Hohendorf Kierdorf Patentanwälte PartGmbB

Straße, Hausnummer / ggf. Postfach
Hohenzollernring 79-83

Postleitzahl 50672 **Ort** Köln, DE

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Antrag auf Eintragung eines Gebrauchsmusters

2

Datum TT 21 MM 10 JJJJ 2022

(2) Zeichen des Anmelders/Vertreters (max. 20 Stellen) G11848DE

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(5) soweit bekannt

Anmelder-Nr.

Vertreter-Nr.

Zustelladressen-Nr. 108972623

(6) IPC Vorschlag ist unbedingt anzugeben, sofern bekannt

Bezeichnung der Erfindung

IPC-Vorschlag des Anmelders

Ein System für einen programmierbaren, zeitgesteuerten, drahtlosen Sensor-Knoten mit Energiegewinnung, der einen Funkzugang mit großer Reichweite nutzt

(7)

Sonstige Anträge

☐ **Aussetzung** der Eintragung und Bekanntmachung für __ Monate (§ 8 Absatz 1 Satz 2 Gebrauchsmustergesetz)
(Max. 15 Monate ab Anmelde- bzw. Prioritätstag)

☐ **Rechercheantrag** - Ermittlung der öffentlichen Druckschriften (§ 7 Gebrauchsmustergesetz)

(8)

Erklärungen

Aktenzeichen | Anmeldetag

☐ **Abzweigung** aus der Patentanmeldung/dem Patent

☐ Der Anmelder ist an **Lizenzvergabe** interessiert (unverbindlich)

(9)

☐ Inländische Priorität
(Datum, Aktenzeichen der Voranmeldung)

☐ Ausländische Priorität
(Datum, Land, Aktenz. der Voranmeldung)

☐ Ausstellungspriorität
(Datum der erstmaligen Zurschaustellung, Ausstellung)

(10)

Gebührenzahlung in Höhe von 30,00 EUR

Zahlung per Banküberweisung

☐ **Überweisung**
(nach Erhalt der Empfangsbestätigung)

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Leopoldstr. 234, 80807 München

Zahlung mittels SEPA-Basis-Lastschrift

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☒ liegt dem DPMA bereits vor (Mandat für mehrmalige Zahlungen)

☐ ist beigefügt

☒ **Angaben zum Verwendungszweck** (Formular A 9532) des Mandats mit Mandatsreferenznummer sind beigefügt

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(11)

Anlagen

1. 6 Seite(n) Beschreibung
2. 2 Seite(n) Schutzansprüche
   5 Anzahl Schutzansprüche
3. 1 Anzahl Figuren
4. _____ Abschrift(en) der Voranmeldung(en) bei Priorität
5. _____ Abschrift der Voranmeldung bei Abzweigung
6. _____ Vertretervollmacht

7. _____ Übersetzung(en)

8. _____ Sequenzprotokoll nach ST.26

9. _____ Sonstiges

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Bearbeiter (1)

(12) Unterschrift

(13) Funktion des Bearbeiters

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202241055209
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/09/2022
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TITLE OF INVENTION	SYSTEM AND METHOD FOR LEARNING ALPHABETIC AND MATHEMATICAL EXPRESSIONS USING A DIGITAL ASSISTANCE
FIELD OF INVENTION	PHYSICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/10/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

PATENT REGISTER SHEET

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Official application No.	Lodging date: Provisional	Acceptance date
21 01 **2022/05202**	22	47 2022/08/30
International classification	Lodging date: Complete	Granted date
51 A61K	23 2022/05/11	2022/11/30

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Priority claimed:	Country	Number	Date

54 Title of invention

A SYSTEM AND A METHOD OF IMPROVED SCA-ELM BASED DENSENET121 FOR CLASSIFICATION OF FRUIT DISEASES

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74	Address for service	
Wolmarans and Susan Inc. 337 Surrey Avenue, Randburg, 2194 SOUTH AFRICA Reference No.		
61	Patent of addition No.	Date of any change
Fresh application based on.		Date of any change

RENEWAL SHEET

Year	Payment Date	Receipt Number	Amount

HISTORY SHEET

Date entry made	Description
2022-05-12	Proof reading performed automatically
2022-05-12	Request for the acceptance of a Patent electronically filed on 11/5/2022, numbered 2022/05202
2022-05-30	Correction of clerical errors consisting of to correct address filed on 26/05/2022, by Dr. Satyasis Mishra, Dr. Mohammed Siddique, Dr.Sunita Satapathy, Dr. Ramesh Chandra Mohanty, Dr. Goutam Kumar Mahato, Dr. Tumbanath Samantara, Dr. Sasmita Nayak, Mr. Nilamadhab Dash.
2022-08-30	Application accepted on 30/08/2022.
2022-12-01	Patent advertised on 30-11-2022.
2022-12-01	Patent granted on 30-11-2022.

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Government of India

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details

APPLICATION NUMBER	202211065898
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/11/2022
APPLICANT NAME	1 . Dr RAM KUMAR GARG 2 . SAKSHI DEEPAK KAKADE 3 . CH. CHAKRADHARA RAO 4 . PERLA RATNA KUMARI 5 . Ms. SWAGATIKA DAS 6 . Mr. SUJIT KUMAR PATRO 7 . Dr.D.KAMALAKKANNAN 8 . Dr. SUSHIL KUMAR 9 . Dr.A.SASI KUMAR 10 . AMOL D. SONAWANE 11 . Dr. KRANTI KIRAN REDDY EALLA 12 . PRAVEEN KUMAR POOLA
TITLE OF INVENTION	CLOUD BASED TECHNIQUE INTEGRATED WITH ARTIFICIAL INTELLIGENCE (AI) TO PREDICT THE HEART DISEASES IN ADVANCE AND AVOIDING THE SUDDEN AND MASSIVE HEART ATTACKS
FIELD OF INVENTION	BIO-CHEMISTRY
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/12/2022

Application Status

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

ENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT, ODISHA; SMRUTI RANJAN NAYAK; DR. MADHUSMITA CHOUDHURY

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/07882

A copy of the complete specification is annexed, together with the relevant Form P2.

In te[illegible]y thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 28th day of **September 2022**

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Application Details	
APPLICATION NUMBER	202241073743
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	IOT BASED ELECTRIC VEHICLE CONTROL SYSTEMS IN SMART CITIES
FIELD OF INVENTION	COMMUNICATION
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PUBLICATION DATE (U/S 11A)	30/12/2022

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/12/2022

(21) Application No.202231069849 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : A DISEASE VULNERABILITY AND COMBAT MAPPING MODEL FOR TRIBAL FORTIFICATION USING GEOSPATIAL

(51) International classification :G06F0016290000, G06F0021570000, G16H0070600000, G06Q0050220000, G06F0030200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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(57) Abstract :
The present invention relates to a disease vulnerability and combat mapping model for tribal fortification using geospatial. The system (100) comprises a computing unit, a data storage unit, a geographic information (GIS) unit and a display unit. The disease vulnerability and combat mapping model for tribal fortification using geospatial can use for the identification of most prevalent diseases causing parameters leading to health impairment in the tribal population in the particular area. The disease vulnerability and combat mapping model for tribal fortification using geospatial can use for the mapping pockets that are most vulnerable for the diseases and evaluation of disease vulnerability index for the particular area.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/12/2022

(21) Application No.202231075297 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : A METHOD FOR STUDY RISK MITIGATION AND MANAGEMENT IN AGRICULTURAL PRACTICES AMONG FARMERS USING ICT

(51) International classification	:H04L0067520000, G06Q0050020000, G01C0021000000, G07C0005020000, B60W0040100000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)Dr Rajib Kumar Majhi
5)Dr Rahul Adhikary
6)Mr. Bishnuprasad Dash
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8)Mr. B. Bikram Narayan
Name of Applicant : NA
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Address of Applicant :Assistant Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, 761211, India ---------- ----------
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(57) Abstract :
A METHOD FOR STUDY RISK MITIGATION AND MANAGEMENT IN AGRICULTURAL PRACTICES AMONG FARMERS USING ICT ABSTRACT The present invention relates to a method (100) for study the Influential behavior and farmer’s intention for using ICT based techniques for risk mitigation and management in agricultural practices among the farmers in Odisha. The method (100) comprises a memory unit and a processor. The method (100) provides information to understand the elements that affect farmers' behavioral intentions helps extension service providers (public and private), policy makers, and other interested parties create programs and policies that will work. The method (100) provides information generate the results to show perceptions of behavioral control, subjective norms, and attitude were the three factors that had the greatest influence on intention. Also, the method (100) provides information to understand the elements that affect farmers' behavioral intentions helps extension service providers (public and private), policy makers, and other interested parties create programs and policies that will work.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/09/2022

(21) Application No.202241051178 A

(43) Publication Date : 16/09/2022

(54) Title of the invention : MACHINE LEARNING BASED STUDY TO ANALYSE THE EFFICACY OF EXISTING DRUGS ALONG SKEWING OF IRRELEVANT TUPLES

(51) International classification	C22C0038120000, C21D0006000000, C22C0038140000, H04W0052020000, C21D0008020000
(86) International Application No Filing Date	PCT// 01/01/1900
(87) International Publication No	NA
(61) Patent of Addition to Application Number Filing Date	NA NA
(62) Divisional to Application Number Filing Date	NA NA

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(57) Abstract
Machine learning based study to analyse the efficacy of existing drugs along skewing of irrelevant tuples is the proposed invention. The proposed invention aims at utilizing the algorithms of machine learning to analyse the efficacy of existing drugs. The invention aims at skewing of irrelevant with the intention of studying the accuracy of various drugs.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/12/2022

(21) Application No.202241069847 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : SYSTEMATIC APPROACH FOR ANALYZING THE IMPORTANCE OF NECTIN-4 AS SOLUBLE BIOMARKERS FOR THE DETECTION OF CANCER

(51) International classification	A61P0035000000, C12N0015100000, C07K0016280000, G01N0033574000, A61K0047550000
(86) International Application No Filing Date	PCT// 01/01/1900
(87) International Publication No	NA
(61) Patent of Addition to Application Number Filing Date	NA NA
(62) Divisional to Application Number Filing Date	NA NA

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(57) Abstract :
Systematic Approach for Analyzing the Importance of Nectin-4 As Soluble Biomarkers for the Detection of Cancer is the proposed invention. The invention focuses on designing the pros and cons of Nectin-4. The Nectin-4 which is a soluble biomarker that is used for detection of cancer.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/12/2022

(21) Application No.202241071402 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : A METHODOLOGY TO ANALYSE THE IMAGES OF KIDNEY CAPTURED USING MEDICAL MODALITIES FOR ANOMALY DETECTION WITH ALGORITHMS OF MACHINE LEARNING

(51) International classification : G06N0020000000, G06N0003080000, G06K0009620000, A61N0007020000, G06N0003040000

(86) International Application No : PCT//
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(87) International Publication No : NA

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

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

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(57) Abstract :
Methodology to Analyse the Images of Kidney Captured using Medical Modalities for Anomaly Detection with Algorithms of Machine Learning is the proposed invention. The invention focuses on predicting the kidney disease accurately. The images of kidney that are captured using various imaging modalities are stored on the database and analysed using algorithms of machine learning.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2022

(21) Application No.202241072369 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : A NEW APPROACH FOR A THERMAL POWER PLANT BY ADAPTIVE CONTROL CASCADED WITH COMBUSTION FLAME IMAGES FOR OPTIMIZED COMBUSTOR

(51) International classification :H04L0005000000, H04J0011000000, A61B0005145000, H04L0009320000, G05B0013040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A new approach for a thermal power plant by adaptive control cascaded with combustion flame images for optimized combustor is the proposed invention. The proposed invention focuses on implementing a new approach for a thermal power. The invention aims are cascading adaptive control on combustion flame images for optimized combustor.

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

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 105 972

Bezeichnung:

Ein System für einen programmierbaren, zeitgesteuerten, drahtlosen Sensor-Knoten mit Energiegewinnung, der einen Funkzugang mit großer Reichweite nutzt

IPC:

H04W 52/00

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Tag der Anmeldung:

22.10.2022

Tag der Eintragung:

17.11.2022

Die Präsidentin des Deutschen Patent- und Markenamts

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München, 17.11.2022

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(http://ipindia.nic.in/index.htm)

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APPLICATION TYPE	ORDINARY APPLICATION
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Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2022

(21) Application No.202231063610 A
(43) Publication Date : 11/11/2022

(54) Title of the invention : PHARMACEUTICAL COMPOSITION COMPRISING AMLODIPINE FOR RETINAL TRANSSYNAPTIC NEURONAL PROTECTION AND METHODS THEREOF

(51) International classification :A61K0031442200, A61P0027060000, A61K0031417800, A61P0009000000, A61K0009060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention generally relates to the field of pharmacology and medical biochemistry. Particularly, the present disclosure relates to a pharmaceutical composition for retinal transsynaptic neuronal protection comprising amlodipine optionally along with pharmaceutically acceptable excipient(s). The present disclosure also relates to a method for retinal transsynaptic neuronal protection in a subject having glaucoma and a method for managing glaucoma in a subject in need thereof, comprising administering the subject with amlodipine or the composition of the present disclosure.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2022

(21) Application No.202241073279 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : MACHINE LEARNING BASED TECHNIQUE TO ANALYZE THE PROS AND CONS OF IN-SITU GEL FORMATION CONTAINING ALOE VERA EXTRACT

(51) International classification :A61K0036886000, G06N0020000000, A61K0036896000, A61K0008979400, A61K0039395000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :
Machine Learning based technique to analyze the Pros and Cons of In-situ gel formation containing Aloe Vera extract is the proposed invention. The proposed invention focuses on analyzing the pros and cons of In-situ gel. The In-situ gel is formulated using the aloe vera extracts that are considered for the study.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2022

(21) Application No.202231064453 A
(43) Publication Date : 02/12/2022

(54) Title of the invention : SYSTEMATIC APPROACH TO ANALYZE THE IMPORTANCE OF NANOPARTICLES FOR PROVIDING TREATMENT THROUGH INTERVENTIONAL CARDIOLOGY

(51) International classification :A61B0005000000, C12N0015100000, G06F0011360000, A61K0033243000, A61M0025000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Systematic approach to analyze the Importance of Nanoparticles for Providing Treatment through Interventional Cardiology is the proposed invention. The proposed invention focuses on implementing a framework that will analyze the properties of various nano particles in treating heart issues. The proposed invention aims at finding the best treatment for interventional cardiology.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/10/2022

(21) Application No.202241060212 A

(43) Publication Date : 04/11/2022

(54) Title of the invention : DESIGNING A FRAMEWORK FOR IDENTIFYING THE IMPACT OF COMBINATIONAL THERAPY FOR TREATING MELANOMA WITH TRADITIONAL CHEMOTHERAPY AND TARGETED DELIVERY OF DRUG

(51) International classification :A61P0035000000, A61K0009000000, A61K0045060000, A61K0033243000, A61K0047540000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
Designing a framework for identifying the impact of combinational therapy for treating melanoma with traditional chemotherapy and targeted delivery of drug is the proposed invention. The invention focuses on analyzing the impact of combinational treatment of melanoma. The proposed invention aims at predicting the importance of combining novel drug delivery techniques along with chemotherapy for efficiently treating melanoma patients.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2022

(21) Application No.202231069269 A
(43) Publication Date : 09/12/2022

(54) Title of the invention : APPLICATION OF NANOROBOTICS IN HIGH-DENSITY PHARMACEUTICAL ASSAY PROCESS

(51) International classification :A61B0005000000, A61B0005020000, A61K0036000000, A61K0031122000, B82Y0005000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the field of the nanorobotics in pharmaceutical sciences. The invention more particularly relates to application of nanorobotics in high-density pharmaceutical assay process. Nanorobotics is the technology of making machines or robots at or near the scale of a nanometre (10-9 metres). Machines built at the molecular level (nanomachines) may be utilised to remedy the human body's numerous diseases. Nanorobot's toolkit includes a medicine cavity, probes, knives, and chisels to remove blockages and plaque, microwave emitters and ultrasonic signal generators to destroy cancerous cells, two electrodes to heat the cell until it dies, and powerful lasers to burn away harmful material like arterial plaque. A cream incorporating nanorobots can remove the proper quantity of dead skin, excess oils, missing oils, natural moisturising components, and even achieve 'deep pore cleansing' Other uses include treating wounds, kidney stones, gout, parasites, cancer, and arteriosclerosis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2022

(21) Application No.202241070733 A
(43) Publication Date : 16/12/2022

(54) Title of the invention : COMPOSITION FOR IMMUNOMODULATING AND NUTRACEUTICAL AND METHOD OF USE

(51) International classification	:A23L0033135000, A61P0037020000, A61K0035747000, A61P0029000000, A61P0037000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
COMPOSITION FOR IMMUNOMODULATING AND NUTRACEUTICAL AND METHOD OF USE A method for composition for immunomodulating and nutraceutical and method of use, wherein the method comprises an isolated Bacteroides fragilis combined with a nutritional source, so that the combination is a nutraceutical in that it is a food product is appropriate for oral consumption by a human subject. Composition or medicament further comprises a culture of probiotic bacteria Lactobacillus pentosus and composition or said medicament is in solid form for oral administration. Nutraceutical or medical food product for the treatment, prophylaxis and / or alleviation of a disease or disorder associated with a disease associated with an immune response. Immunomodulating agent comprising isolated polysaccharide fractions from the plant Chlorophytum borivillianum consisting of water extractable easily water-soluble polysaccharides.

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2021

(21) Application No.202121051168 A
(43) Publication Date : 09/12/2022

(54) Title of the invention : A NOVEL TECHNO-FRIENDLY METHOD TO IMPROVE PROCESSABILITY IN TABLET MANUFACTURING OF EFAVIRENZ FROM SPHERICAL CRYSTALIZATION

(51) International classification :A61K0009200000, A61K0031536000, A61K0009140000, A61K0009500000, C07D0265180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Abstract In the present invention of Efavirenz spherical agglomerates were successfully prepared by using the spherical crystallization technique. The altered size and shape of prepared spherical agglomerates indicated modified crystal habit which could be responsible for significantly improvement in flowability, solubility and dissolution properties of Efavirenz agglomerates. The micromeritics properties of agglomerates were significantly improved, resulting in successful direct tableting. Prepared tablet from spherical agglomerates with excipients showed good physicochemical properties.

No. of Pages : 52 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2022

(21) Application No.202231056036 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : 3-(2-Amino-5-hexylphenyl) Propanoic Acid for Treatment of Severe Acute Respiratory Syndrome (SARS) Coronavirus 2

(51) International classification :C07K0014005000, A61K0039000000, A61K0039215000, C12P0021000000, A61K0039120000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT: Title: 3-(2-Amino-5-hexylphenyl) propanoic acid for Treatment of Severe Acute Respiratory Syndrome (SARS) Coronavirus 2 The present disclosure proposes 3-(2-Amino-5-hexylphenyl) propanoic acid for treatment of severe acute respiratory syndrome (SARS) Coronavirus. The formula (3) is 3-(2-Amino-5-hexylphenyl) propanoic acid that inhibit various SARS corona virus proteins. The 3-(2-Amino-5-hexylphenyl) propanoic acid is designed by using in silico Fragment based design. The proposed cost-effective anti-SARS compound provides minimal toxicity and high efficacy. The proposed anti-SARS compound inhibit many SARS Corona virus proteins like, Main Protease or 3CLpro, Papain Like Protease, nsp12-nsp7-nsp8 complex-RNA Dependent RNA Polymerase Complex of NSP7 with NSP8 –Primase, etc.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2022

(21) Application No.202231071013 A
(43) Publication Date : 16/12/2022

(54) Title of the invention : A SYSTEM FOR CANCER DETECTION AND MONITORING USING CUSTOMIZED DETECTION OF CIRCULATING DNA AND METHOD THEREOF

(51) International classification	:C12Q0001688600, C12Q0001686000, C12Q0001680600, A61K0031506000, C12Q0001680900
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present invention discloses a system for cancer detection and monitoring using customized detection of circulating DNA and method thereof. In the present invention, a means for supplying the nucleic acid from a peripheral blood sample taken from the subject; and contacting the nucleic acid with at least a first primer under circumstances that will cause the amplification of the BRAF gene or a fragment of it if the BRAF gene is present in the peripheral blood sample; and a processing device for determining whether the BRAF gene or a fragment of it contains a mutation in comparison to a wild-type BRAF sequence. Further, obtaining a plasma sample from the BRAF gene and extracting the DNA therefrom to create a target DNA sample; and adding to the target DNA sample, wherein a combination of oligonucleotide primers suitable for PCR amplification of a fragment of the human telomerase reverse transcriptase (BRAF) gene. Accompanied Drawing [FIGS. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2022

(21) Application No.202241071429 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : A stimuli responsive bionanomaterial for extended drug release and method thereof

(51) International classification :A61K0009510000, A61K0009500000, A61K0009127000, A61K0047690000, A61P0031220000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
: Delivery tools may be stimuli-responsive nanoparticles (NPs) that have good stability, high loading efficiency, encapsulation of numerous drugs, and targeting specific cells, tissues, or organs of the body. These nanoparticles have a hydrophobic inner core and a hydrophilic outer shell, which gives them high stability and the capacity to load therapeutic chemicals with a high encapsulation efficiency. Both of these properties are important for drug delivery. Amphiphilic stimuli-responsive polymers or a combination of amphiphilic and hydrophobic polymers or compounds, of which at least one type is stimuli-responsive, are the preferred building blocks for the NPs. It is possible to manufacture these NPs in such a way that their payload is released mostly inside the cells, tissues, or organs of the body that are being targeted upon exposure to either endogenous or exogenous stimuli. It is possible to adjust the pace of release such that it may be a burst, a steady release, a delayed release, or any combination of these three. The NPs may be used either as research tools or in clinical applications such as diagnostics, therapies, or combinations of the two.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/12/2022

(21) Application No.202231071743 A
(43) Publication Date : 23/12/2022

(54) Title of the invention : PHARMACEUTICAL COMPOSITION COMPRISING ACETAZOLAMIDE FOR RETINAL PROTECTION AND METHODS THEREOF

(51) International classification	:A61P0027060000, A61K0009000000, A61K0047360000, G16H0010200000, A61K0047100000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention generally relates to the field of pharmacology and medical biochemistry. Particularly, the present disclosure relates to a matrix film formulation comprising acetazolamide and a process of preparing the same. The present disclosure also relates to a method for retino-protection and intraocular pressure management in a subject having glaucoma and a method for managing glaucoma in a subject in need thereof, by administering the subject with the formulation of the present disclosure.

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

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Department of Industrial Policy & Promotion,
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Government of India

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Application Details	
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APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	A METHOD FOR DETECTING CANCEROUS CELLS IN ASYMPTOTIC PATIENTS USING MONOCLONAL ANTIBODY DRUGS
FIELD OF INVENTION	CHEMICAL
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Application Status

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(19) INDIA
(22) Date of filing of Application :27/11/2022

(21) Application No.202231068193 A
(43) Publication Date : 02/12/2022

(54) Title of the invention : A METHOD FOR ADVANCED TUMOR RECOGNITION BASED ON IOT AND AI IMAGE PROCESSING

(51) International classification :G16H0010600000, G06T0007000000, G16Z0099000000, A61B0005050700, G06Q0030000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to a method for advanced tumor detection based on internet of things (IoT) and artificial intelligence (AI) image processing. The method comprising the following steps: receiving a sample scan of head of a patient. Retrieving electronic health records (EHRs) related to the sample scan; comparing the sample scan with a standard brain scan for abnormalities; evaluating brain anomalies based on comparing, wherein the brain anomalies vary according to the comparison with the standard brain scan; and diagnosing a tumor when the brain anomalies are below or above a certain threshold with respect to the standard brain scan.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2022

(21) Application No.202231062139 A
(43) Publication Date : 04/11/2022

(54) Title of the invention : A SYSTEM PROVIDED WITH NEXT-GENERATION COMPUTING TECHNOLOGY FOR PRECISION MEDICINE AND METHOD THEREOF

(51) International classification :G16H0010600000, G16H0050200000, G16H0040670000, G16H0020100000, C12Q0001686900
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses a system provided with next-generation computing technology for precision medicine and method thereof. The system includes, but not limited to, a network module set up to encourage communication between various players regarding a patient's health care; and a data analytics unit set up to gather information from one or more of the numerous players regarding the patient's health care, with the data analytics centre also set up to analyse the information collected, including curating the information collected and analysed. Further, a cloud computing device that communicates with a number of sequencing devices includes at least one server that is set up to speak with a distant sequencing system in order to receive and store sequence data while it is being created by the distant sequencing system. Accompanied Drawing [FIGS. 1-2]

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

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Application Details	
APPLICATION NUMBER	202241072402
APPLICATION TYPE	ORDINARY APPLICATION
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Application Status

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(19) INDIA
(22) Date of filing of Application :22/09/2022

(21) Application No.202211054445 A
(43) Publication Date : 30/09/2022

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF BOSWEELIC ACID FOR TREATING RHEUMATOID ARTHRITIS

(51) International classification :A61K0036324000, A61K0031000000, A61K0038000000, A61K0045060000, A61K0031190000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
A method for development and evaluation of bosweelic acid for treating rheumatoid arthritis. The investigation was aimed to formulate transdermal films incorporating herbal drug components. The allopathic system of medicine includes two conventional lines of treatment for rheumatoid arthritis, which come along with certain side effects. a special extract of the gum resin of Boswellia serrata (BS) is effective in the treatment of rheumatoid arthritis (RA). These findings were obtained in more than 260 patients by using a range of different clinical approaches for evaluation. The criteria for assessment were mainly joint swelling, pain, erytrocyte sedimentation rate (ESR), stiffness, additional use of NSAID, side effects and tolerance.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/08/2022

(21) Application No.202241049325 A
(43) Publication Date : 09/09/2022

(54) Title of the invention : THE EFFECT OF GRAVITY AND CENTRIFUGAL FORCE ON PLANT DEVELOPMENT AND FRUIT PRODUCTION

(51) International classification :A01C0001000000, A01G0031000000, B04B0005040000, A01C0001060000, A01G0022000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT THE EFFECT OF GRAVITY AND CENTRIFUGAL FORCE ON PLANT DEVELOPMENT AND FRUIT PRODUCTION The method to investigate the effect of centrifugal force on the growth of maize, an important cereal crop in Nigeria. The maize seeds were subjected to centrifugation for three revolutions. The seeds were planted and observed for germination and early growth for seven days. Results revealed that seeds treated with 1000g centrifugal force for 4hrs had the highest germination percentage (70%), while 50% of the control seeds germinated at the end of the 7th day. The radicle length in the 10,000g/2hrs treatment was also the highest (24 cm). However, the highest shoot length was observed in the control plants. The method is carried until the yield or maturity stage in order to have more profound observation on this centrifugal force effect on the maize plants.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013676 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Treatment of cancer with tetrahedral DNA nanostructures (TDN) method

(51) International classification :B22F0001000000, B82Y0005000000, A61K0039000000, C12N0015870000, B22F0009240000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
DNA reticular nanomedicine carrying molecules is the subject of this invention, which provides a new technique for making such molecules. Structures made of a DNA tetrahedron (TDN) and nanogold are combined. The procedure is broken down as follows: Gold nanoparticles with particle sizes of 4nm were prepared, and DNA TDN and gold nanoparticles were combined to form the DNA TDN structure. The DNA TDN used in the innovation is precise, switchable in size and property, and very stable. The innovation uses DNA and nanogold particles to create a huge reticular structure by connecting the DNA TDN. It is hoped that the medicine-carrying molecule would be extensively used for tumor research and treatment since it primarily uses DNA as raw material and hence is safe for human bodies.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/11/2022

(21) Application No.202241065536 A
(43) Publication Date : 02/12/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO EARLY PREDICTION OF NATURAL COMA BASED ON BRAIN MAPPING TECHNIQUES

(51) International classification :A61B0005000000, G06K0009620000, G06Q0050200000, G16H0030400000, A61B0005145500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Artificial Intelligence based approach to Early Prediction of Natural Coma based on Brain Mapping Techniques is the proposed invention. The proposed invention focuses on designing a framework of Artificial Intelligence for early prediction of coma condition for a particular patient. The invention aims at utilizing the brain mapping techniques to achieve accuracy in prediction.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/01/2022

(21) Application No.202221000794 A
(43) Publication Date : 21/01/2022

(54) Title of the invention : GREEN SYNTHESIS APPROACH METHOD USER-FRIENDLY SENSOR FOR ENVIRONMENT AIR MONITOR

(51) International classification	:G01N0027120000, C01G0041020000, G01N0033000000, B82Y0030000000, C07K0014005000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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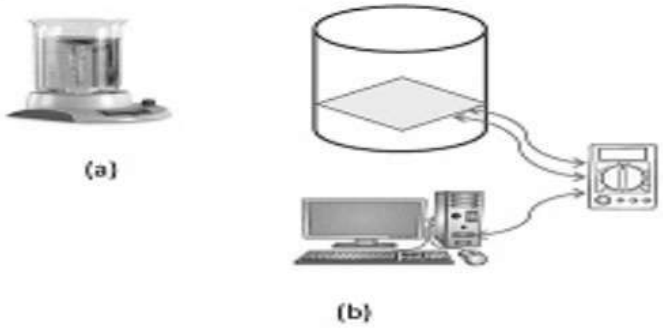
(57) Abstract :
Proposed invention Prepared using the green synthesis method, tungsten trioxide and metal oxide doped printed films were produced. The printed films' structural, surface, electrical, and gas sensing characteristics are investigated using X-ray diffraction, scanning electron microscopy, transmission electron microscopy, and the Keithley system, among other techniques. After that, these films will be used to fabricate gas sensors for use in air monitors.

Diagram:



1(a) shows magnetic stirrer with metal oxide liquid. Figure 1(b) shows printed thin film for analysis gases through system.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/12/2022

(21) Application No.202241071288 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : A METHODOLOGY TO MONITOR THE EXHALED BREATH OF COVID 19 PATIENTS SUFFERING FROM ACUTE KIDNEY INJURY FOR DETECTION OF AMMONIA USING FABRICATED GAS SENSOR BASED ON POLYPYRROLE AND SILVER NANOPARTICLE

(51) International classification	:G01N0033497000, A61B0005080000, A61P0013120000, A61B0005097000, G01N0033000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A methodology to Monitor the Exhaled Breath of COVID 19 Patients Suffering from Acute Kidney Injury for Detection of ammonia using fabricated gas sensor based on Polypyrrole and Silver nanoparticle is the proposed invention. The invention focuses on monitoring the breath that is exhaled by covid-19 patients who are suffering from acute kidney failure. The breath is tested for presence of ammonia using fabricated gas sensor that is based on polypyrrole and sliver nanoparticle.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/12/2022

(21) Application No.202241071287 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : DESIGN OF CHITOSAN NANOPARTICLE COATED MINI-IMPLANTS FOR DENTAL ISSUES AND ANALYSIS OF THEIR PROPERTIES

(51) International classification :A61K0009510000, B82Y0005000000, A61B0005000000, B01J0035000000, A61K0047690000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :
Design of Chitosan Nanoparticle Coated Mini-Implants for Dental Issues and analysis of their properties is the proposed invention. The invention focuses on predicting the pros and cons associated with treating dental issues with chitosan nanoparticles coated with mini-implants. The properties of chitosan nanoparticles are also analysed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2022

(21) Application No.202231021970 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : GLIMEPIRIDE BASED SOLID DISPERSION COMPOSITION FOR TYPE-2 DIABETES

(51) International classification	:A61K0031640000, A61K0009140000, C07D0207380000, A61P0003100000, A61K0047360000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present disclosure proposes a glimepiride based solid dispersion composition for type-2 diabetes. The method for preparation of physical mixture and solid dispersion of glimepiride based composition with skimmed milk that aids in the treatment of type-2 diabetes mellitus. The glimepiride solid dispersion in a diabetic rat model is evaluated by oral administration to measure the efficacy of the drug. The physical mixture and solid dispersion of glimepiride based composition with skimmed milk enhances the diabetes management of the patient.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/08/2022

(21) Application No.202241049043 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : A novel Nanocellulose and lignosulphate based adhesive coacervate composition and preparation method thereof

(51) International classification :D21H0011180000, D21C0009000000, C08B0015080000, D21C0003200000, C08H0008000000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The processes that have been described are able to convert biomass into nanocellulose with a high crystallinity while using a minimal amount of mechanical energy. In certain iterations of the method, the biomass is first fractionated using lignosulfonic acids, which results in the production of cellulose-rich solids. Next, the cellulose-rich solids are subjected to mechanical treatment, which results in the formation of nanofibrils and/or nanocrystals. The powerful lignosulfonic acids that are produced during the delignification process result in a pH that is lower than one and hydrolyze the amorphous portions of cellulose more effectively. It's possible that the entire amount of mechanical energy per tonne is less than 500 kilowatt-hours. There is a possibility that the nanocellulose material has a crystallinity of 80% or greater, which would translate to excellent reinforcing qualities for composites. Nanocrystalline cellulose, nanofibrillated cellulose, or both may be included in the nanocellulose material. In certain implementations, the hydrophobic property of the nanocellulose material is achieved by depositing lignin onto the surface of the cellulose. Sugars generated from amorphous cellulose and hemicellulose have the potential to be fermented independently, resulting in the production of co-products.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/08/2022

(21) Application No.202231047494 A
(43) Publication Date : 09/09/2022

(54) Title of the invention : DRUG-RELEASING POLYELECTROLYTE COATING

(51) International classification	:A61L0031160000, A61L0031100000, A61L0029160000, A61L0027540000, A61L0029080000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The invention which includes the following: (a) a ceramic or metallic region whose surface includes a plurality of depressions, (b) a multilayer coating region including multiple polyelectrolyte layers deposited over the surface of the ceramic or metallic region, and (c) a therapeutic agent disposed beneath or within the multilayer coating region. The depressions on the surface of the ceramic or metallic region are used to hold a therapeutic agent in place. Medical articles are provided in accordance with a different aspect of the present invention. These medical articles include (a) a ceramic or metallic region, (b) a multilayer coating region including multiple polyelectrolyte layers deposited over a surface of the ceramic or metallic region, the multilayer coating region including a plurality of protuberances; and (c) a multilayer coating region including multiple polyelectrolyte layers; Methods of producing such medical articles and methods of delivering a therapeutic agent to a patient using such medical articles are both detailed in detail throughout the present document.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/09/2022

(21) Application No.202241050942 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : A method, system and apparatus for cancer immunotherapy based on nanomedicines

(51) International classification :C07K0014470000, A61P0027020000, H04N0005225000, G06F0003010000, C07D0498040000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The therapeutic targeting of the immune system in cancer is now a clinical reality, and significant breakthroughs have been obtained. These gains have been accomplished most notably via the use of checkpoint-blocking antibodies and chimeric antigen receptor T cell therapy. However, attempts to create novel immunotherapy medicines or combination therapies have been confronted with obstacles of low effectiveness and/or high toxicities, which have hampered these efforts to raise the fraction of patients who benefit from treatment. Therapeutics that are composed of or formulated in carrier materials that are typically less than 100 nm in size have been referred to as nanomedicines. These medicines were initially developed to improve the uptake of chemotherapy agents by tumours and to reduce the off-target toxicities of these agents. In this article, we will discuss how treatment strategies based on nanomedicine are well suited to immunotherapy. This is because Nanomaterials have the ability to direct immunomodulators to tumours and lymphoid organs, alter the way biologics engage with target immune cells and accumulate in myeloid cells in tumours and systemic compartments.

No. of Pages : 26 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/09/2022

(21) Application No.202241051202 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : NANO ENGINEERED POLYMERIC BIOMATERIALS FOR TARGETED DRUG DELIVERY SYSTEM FOR SYNERGISTIC BRAIN-TARGETING DELIVERY METHOD THERE OF

(51) International classification :A61K0031198000, G16H0050200000, H04B0007060000, G06T0007000000, G06Q0099000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention is in the field of biotechnology and relates to a novel polypeptide-modified nano dual-drug delivery system for targeting brain gliomas, as well as a method for preparing the dual-drug delivery system. Additionally, the invention also relates to a preparation method for the dual-drug delivery system. When preparing the nano dual-drug delivery system for targeting brain gliomas, a novel polypeptide is used as the targeting group, a polymer material is used as base carriers, and chemotherapy drugs are connected to the polymeric carriers by pH-sensitive hydrazone bonds. This allows the system to be tailored to specifically target brain gliomas. It is possible for the dual-drug delivery system to avoid the influence of endogenous Tf, compensate for the shortcomings of conventional targeting group Tf, improve the intake and transfection of chemotherapy drugs and genetic drugs by tumor cells, and further enhance the anti-glioma activity of the T7-modified nano dual-drug delivery system. According to the invention, doxorubicin and pORF-hTRAIL are chosen for the combination treatment of brain gliomas. This is done in order to efficiently lower the dosage of doxorubicin as well as the toxicity and to increase the anti-glioma efficacy. As a result of the drug delivery system's excellent targeting and treating effectiveness, as well as its relatively low level of toxic side effects, it has the potential to be further enhanced and used in the targeted treatment of other tumor tissues.

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/09/2022

(21) Application No.202241051796 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : Submicron and nanoscale doped or undoped silvernanoparticles

(51) International classification :B82Y0030000000, C08K0003080000, A61L0029160000, A61Q0017000000, A61K0033380000
(86) International Application No :PCT//
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(57) Abstract :
Doped metal oxides, silver-containing complex Nanoparticle compositions, silver Nanoparticle, methods of manufacture, and methods of preparation of products from silver-containing Nanoparticles are presented; anti-microbial formulations are discussed, and the disclosure of Nanoparticle consisting of silver and their applications are enabled by nanotechnology. Disclosure is made about colour photo chromatic as well as relevant applications.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2022

(21) Application No.202231054139 A
(43) Publication Date : 23/09/2022

(54) Title of the invention : A NOVEL NANO CRYSTAL/SILVER DIFUNCTIONAL COMPOSITE NANO MATERIAL FOR CANCER TREATMENT AND METHOD THEREOF

(51) International classification	:H04N0005225000, B29L0031000000, B32B0017100000, B01J0021060000, A61K0041000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
A rare earth upconversion nano-crystal/silver difunctional composite nanomaterial, its fabrication technique, and its use in the manufacture of a pharmaceutical for the treatment of tumours are all provided by the present invention. Taking the composite nanomaterial as a heat sensitizing agent and absorbing infrared light is one way it may be used to treat cancer; the near-infrared region (850-1100nm) is a transmission window of organism tissue; and the material has a low risk of causing harm to the human body.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2022

(21) Application No.202231052517 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : MAKING AND ADMINISTERING DIETARY SUPPLEMENTS COMPRISING PHOTOCHEMICAL FORMULATIONS

(51) International classification :A23L0033150000, A61K0031375000, A61K0033340000, A23L0033160000, A61K0033300000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The current invention offers superior dietary supplements and techniques for slowing the advancement of macular degeneration and supporting healthy eyesight while simultaneously maintaining general health. This is accomplished without compromising the overall health of the patient. Vitamin E and carotenoids in the form of lutein and/or zeaxanthin are present in the dietary supplements that are the subject of this invention. Dietary supplements made using the method described in the invention additionally include rosemary, DHA, copper, and zinc, in addition to vitamin D, vitamin C, copper, and zinc. These dietary supplements may also include other vitamins and minerals.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022

(21) Application No.202241059048 A
(43) Publication Date : 28/10/2022

(54) Title of the invention : A FORMULATION BASED ON PYRIDINE DERIVATIVE AND PREPARATION METHOD THEREOF

(51) International classification	:A01N0043400000, C07D0495040000, C07D0215180000, A61K0031443900, C07D0401040000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The invention provides pyridine derivatives that can be used for the preparation of materials that have applications in the pharmaceutical industry. These pyridine derivatives have the formula (I), in which R1 can be NO2, C1, Br, or OH; R2 can be H or HOCH2; R3 can be HOCH2, ClCH2, or Br CH2; and the N-oxide of the compound of formula (I) can be obtained in the case where R2 is H and R3 is HOCH It is further revealed that a procedure for the synthesis of compounds with the formula (I) is included.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/10/2022

(21) Application No.202231060939 A
(43) Publication Date : 04/11/2022

(54) Title of the invention : PHARMACEUTICAL NANOTECHNOLOGY FOR INTRAVENOUS ADMINISTRATION

(51) International classification :A61K0009510000, A61K0033300000, A61K0009160000, A61K0039395000, A61P0029000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Poly(lactic-co-glycolic acid) (PLGA) and poly(lactic acid) (PLA) nanoparticles are provided. These nanoparticles can encapsulate a water-soluble drug with low molecular weight and can deliver the drug to target legion sites, where the particles slowly release the drug over a prolonged period of time. The preparation of the nanoparticles involves allowing the low-molecular, water-soluble, non-peptide drug to interact with a metal ion in order to make the drug hydrophobic, encapsulating the hydrophobized drug within PLGA or PLA nanoparticles and then allowing a surfactant to be adsorbed onto the surface of the particles. This process results in the nanoparticles having a hydrophobic surface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2022

(21) Application No.202241063344 A
(43) Publication Date : 11/11/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE AND IOT BASED SYSTEM FOR REGENERATIVE MEDICINE FOR THE TREATMENT OF LIFE-THREATENING DISEASES AND METHOD THEREOF

(51) International classification :G16H0010600000, G16H0050200000, H04L0067120000, G16H0070600000, H04W0012060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
[026] The present invention discloses an Artificial Intelligence and IoT based system for regenerative medicine for the treatment of life-threatening diseases and method thereof. In the present invention, a database unit for maintaining a centralised iridology database with a list of medical diseases and dysfunctions that correspond to iridology data on a plurality of IoT devices, where the medical data includes levels of psychological or cardiovascular parameters related to each of the patients, and the iridology data includes respective medical data for a number of patients. Further, providing each of the aforementioned patients an IoT based mobile device with a built-in small iridology camera and iridology analysing Artificial Intelligence interfaces and further, using the mobile device to do an iridology scan by pointing the iridology small camera into one of the patients' eyes. Accompanied Drawing [FIGS. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022

(21) Application No.202241059047 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : Anti-Aging Nano Formulations and Nano-cosmetic composition

(51) International classification	:A61K0008640000, A61Q0019080000, A61K0008920000, A61Q0019000000, A61K0008978900
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Specifically, the invention relates to novel anti-wrinkle and anti-aging nanoformulations made from non-toxic mesoporous silica nanoparticles, natural plant extracts (such as pomegranate oil, fennel oil, rosemary oil, chamomile oil, jojoba oil, rosehip oil), biologically active agents (acetyl hexapeptide-8, aspartic acid), vitamins, and others. The current invention also concerns a novel process for manufacturing the nanoformulations, which involves co-encapsulating its active ingredients inside a multilayer nanocarrier to improve transport across the skin barrier and control accumulation at the target spot.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2022

(21) Application No.202241058986 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : A SENSOR BASED ON PHOTOCHEMICAL AND ELECTROCHEMICAL ASPECTS HAVING MICROFLUIDIC AND GREEN-CHEMISTRY APPLICATIONS

(51) International classification :B01L0003000000, B60W0050000000, B01J0023260000, B01J0019120000, C07C0021180000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
A microfluidic system that includes a number of photochemical reaction stages, wherein the microfluidic system also includes a computational processor, a number of photochemical reaction stages that are electrically controllable, and a series of controllable interconnections that are used to connect the photochemical reaction stages. The computational processor in an implementation is responsible for controlling the plurality of electrically controlled photochemical reaction stages and the controllable interconnections in order to carry out the multi-step photochemical synthesis function.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/10/2022

(21) Application No.202241060616 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : A composite nano material having Multifunctional nuclear shell structure drug carrier material and method thereof

(51) International classification :A61P0035000000, A61K0009000000, A61P0029000000, A61K0009500000, B82Y0005000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :
Cancerous tumors and inflammatory disorders may be treated with chemotherapies that are released in a regulated and targeted manner thanks to a composite magnetic Nanoparticle drug delivery system. A biocompatible and biodegradable polymer, a magnetic Nanoparticle, the biological targeting agent human serum albumin, and a therapeutic pharmaceutical composition are all components of the magnetic Nanoparticle. Oil-in-oil emulsion/solvent evaporation and high shear mixing are the two methods that are used to create the composite nanoparticles. Magnetic nanoparticles are attracted to the damaged regions by a magnetic field that is applied from the outside. The biological targeting agent causes the nanoparticles to be drawn into the tissues that are impacted. The regulated time release distribution of the medicinal ingredient is provided by the breakdown of the polymer.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2022

(21) Application No.202241064889 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : Advanced Nano Phyto formulations based targeted drug delivery

(51) International classification :A61K0009700000, A61P0025280000, A61K0036886000, A61P0017020000, A61K0036906600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
This invention pertains to a pharmaceutical preparation and a method of preparation for treating challenged tissue in humans and animals, such as skin wounds and ulcers. The pharmaceutical preparation may be used to treat skin wounds and ulcers. This anti-cancer transdermal patch for melanoma treatment also refers to the multifunctional natural matrix that is intended for the treatment of impaired tissues. In addition, the invention includes a method for the treatment of Alzheimer's disease in addition to multiple sclerosis. The composition is made up of a water-solubilized nano-sized formulation of a non-aqueous solvent extract of phyto-pharmaceuticals in a herbal, animal, or synthetic biocompatible gel or on matrix coated, or both. In the most advantageous implementation, the composition is implemented as a topical device for the purpose of treating damaged tissues.

No. of Pages : 21 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2022

(21) Application No.202231064985 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : A CRITICAL APPRAISAL OF ARTIFICIAL INTELLIGENCE BASED RETINA SCAN FOR THE DETERMINATION OF CARDIOVASCULAR PATHOLOGY IN A PATIENT AND METHOD THEREOF

(51) International classification :G06F0016583000, A61B0005145500, G06F0016580000, A61B0003120000, A61B0005021000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
[026] The present invention discloses a critical appraisal of Artificial Intelligence based retina scan for the determination of cardiovascular pathology in a patient and method thereof. In the present invention, a content-based image retrieval system with an archive of saved digital retinal photography images and diagnosed patient cardiovascular data corresponding to those images, each of the stored images being indexed in the CBIR database using a number of feature vectors that correspond to different descriptive properties of the stored images; and interfaces between the processor unit, optical detecting device, and imaging equipment and further, examining the blood vessel's physical properties to ascertain the subject's deoxyhemoglobin saturation. Accompanied Drawing [FIGS. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/04/2022

(21) Application No.202241023909 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : EFFECTIVE HEART DISEASE PREDICTION USING HYBRID ARTIFICIAL NEURAL NETWORKS TECHNIQUES

(51) International classification :G06N0003080000, G06N0003040000, A47J0043250000, G06K0009620000, C09J0163000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Effective heart disease prediction using hybrid artificial neural networks techniques is the proposed invention. The invention focuses on designing an automated framework with artificial neural networks for effective prediction of heart disease. The proposed invention focuses on getting the benefits of hybrid neural networks so that the efficacy in predicting the heart disease will increase to a grater extent.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/05/2022

(21) Application No.202241026105 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED APPROACH TO LOOK FOR ABNORMALITIES IN HEART ANATOMY USING IMAGING MODALITIES

(51) International classification :G06T0007000000, A61B0090000000, G06K0009620000, A61B0006000000, A61B0008080000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
An Artificial Intelligence based approach to look for Abnormalities in Heart Anatomy using Imaging Modalities is the proposed invention. The invention focuses on designing and implementing a framework that can help identify the kind of heart disease that a person is suffering from. The invention aims at analysing the images of heart that are captured using various imaging modalities. The invention leads to therapeutic treatment.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/12/2022

(21) Application No.202211075189 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : THE DETECTION OF VARIED EEG PATTERN SIGNAL FOR CHRONIC MIGRAINE PATIENTS

(51) International classification :A61B0005000000, A61P0025060000, A61B0005374000, A61B0005316000, A61B0005369000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The analysis of particular (electroencephalographic) EEG frequency bands has revealed new insights relative to the neural dynamics that, when studying the EEG spectrum as a whole, would have remained hidden. This study is aimed at characterizing spectral resting state EEG patterns for assessing possible differences of episodic and chronic migraine during the interictal period. For that purpose, a novel methodology for analyzing specific frequencies of interest was performed. Methods. Eighty-seven patients with migraine (45 with episodic and 42 with chronic migraine) and 39 age- and sex-matched controls performed a resting-state EEG recording. Spectral measures were computed using conventional frequency bands. Additionally, particular frequency bands were determined to distinguish between controls and migraine patients, as well as between migraine subgroups. Results. Frequencies ranging from 11.6 Hz to 12.8 Hz characterized migraine as a whole, with differences evident in the central and left parietal regions (controlling for false discovery rate). An additional band between 24.1 Hz and 29.8 Hz was used to discriminate between migraine subgroups. Interestingly, the power in this band was positively correlated with time from onset in episodic migraine, but no correlation was found for chronic migraine. Conclusions. Specific frequency bands were proposed to identify the spectral characteristics of the electrical brain activity in migraine during the interictal stage. Our findings support the importance of discriminating between migraine subgroups to avoid hiding relevant features in migraine.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2022

(21) Application No.202241054973 A
(43) Publication Date : 07/10/2022

(54) Title of the invention : FORMULATION AND CHARACTERIZATION OF TRANSDERMAL PATCHES OF AMLODIPINE BESYLATE USING OLIVE OIL AS THE NATURAL PERMEATION ENHANCER

(51) International classification :A61K0009000000, A61K0031442200, A61K0009700000, A61K0008920000, A61K0031441800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 ---------- ----------
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Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 ---------- ----------
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Address of Applicant :ASSISTANT PROFESSOR, JEYPORE COLLEGE OF PHARMACY, RONDAPALLI, KORAPUT, JEYPORE, ODISHA, 764002 ---------- ----------

(57) Abstract :
Amlodipine Basylate is employed to treat high blood pressure and prevents calcium ions from penetrating the cardiac and vascular mucosal tissue through transmembrane pathways. It was selected for synthesis because it satisfies all physicochemical criteria necessary for skin penetration. Olive oil has been demonstrated to be the much more efficient oil since it has penetrating properties and improves the stiffness of a patches during formulation. The drug's solubility, melting point, partition coefficient, and pH preformulation experiments were determined to be comparable to the norm. The solvent casting method was used to create the transdermal films for amlodipine, and various evaluation criteria, including weight variation, thickness, folding endurance, drug content, percentage moisture absorption, percentage moisture loss, and diffusion studies, were used to gauge their effectiveness. All of the parameters that the formulae indicated were within acceptable bounds. The optimal • formulation for amlodipine besylate was formulation F5, which contained olive oil and demonstrated greater release (98.89%) over a long enough time—up to 72 hours.

No. of Pages : 5 No. of Claims : 3

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202241070566
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/12/2022
APPLICANT NAME	1 . Ms. Samreen Kausar Abdul Rauf 2 . Dr. Rubina Sahin 3 . Dr. T. Vidyasagar 4 . Mr. Wasim Ahmed Khan 5 . Dr. Gopal Krishna Padhy 6 . Mrs. P. Madhuri 7 . Dr. Shobha Thakur 8 . Dr. S. Manimaran 9 . Mr. Vinod Vijaykumar Patil 10 . Mrs. Nilam Shivaji Devkar
TITLE OF INVENTION	A hybrid nanosensor based on novel fluorescent iron oxide nanoparticles for highly selective determination of Hg2+ ions in environmental samples
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

Application Status

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202231073569
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/12/2022
APPLICANT NAME	1 . Dr. CHANDRA SEKHAR PATRO 2 . Dr. FAIZAN SAYEED 3 . Dr. PARESH MISHRA 4 . Dr. NIRANJAN PANDA 5 . Mr. SANJAY KUMAR GUPTA 6 . Dr. SAROJ KUMAR RAUL 7 . Mr. DEBGOPAL GANGULY 8 . Dr. KETAN VINAYAKRAO HATWARE 9 . Mr. KAILASH CHANDRA JENA 10 . Mr. SATYABRATA JENA
TITLE OF INVENTION	NANO-BASED DRUG DELIVERY SYSTEMS: RECENT DEVELOPMENTS AND FUTURE PROSPECTS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	c.patro@rediffmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/12/2022

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202241043129
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/07/2022
APPLICANT NAME	1 . Dr. Nellore Manoj Kumar 2 . Dr. Ajit Kumar Patro 3 . Dr. Jagana Bihari Padhy 4 . Dr. Bibhu Prasad 5 . Dr. Tusharkant Panda 6 . Dr. Hari Kishan Chapala 7 . Dr. Grandhi Prasuna 8 . Mr. K. Shyam Sundar Rao 9 . Dr. D. V. Lokeswar Reddy
TITLE OF INVENTION	An AI & ML based system for tagging for connected devices in a wireless network and method thereof
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/08/2022

Application Status

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202241068398
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/11/2022
APPLICANT NAME	1 . Dr. S. Muthu Vijaya Pandian 2 . Ms. W. Ancy Breen 3 . Dr. G. Deena 4 . Dr. CH. Venkata Kishore 5 . Prabhat Kumar Patnaik 6 . Dr Shweta Sachdeva 7 . Mr. Shrinivasa 8 . Dr. D. Nethra Pingala Suthishni 9 . Anjani kumar 10 . Ranjith R
TITLE OF INVENTION	Artificial Intelligence and IoT based Automatic Smart Healthcare Monitoring system to monitor health for pet animals and birds using AI camera, WSN, cloud and Deep learning algorithms
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	pprservices21@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/12/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2022

(21) Application No.202231056814 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : Real time Crop Recommendation Framework based on Soil Quality and Environmental Condition Using Machine Learning Model.

(51) International classification :G06N0020000000, G06K0009620000, G06N0020100000, G06Q0050020000, G06Q0030060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Suvendu Kumar Nayak
4)Dr. Dayal Kumar Behera
5)Raj Kumar Mohanta
6)Sunil Kumar Mohapatra
7)Dr. Subhra Swetanisha
Name of Applicant : NA
Address of Applicant : NA
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7)Dr. Subhra Swetanisha
Address of Applicant :Assistant Professor, Trident Academy of Technology, Bhubaneswar Bhubaneswar ---------- ----------

(57) Abstract :
ABSTRACT Our nation's economic prosperity is heavily influenced by agriculture. Investments in agricultural research and extension have consistently produced outstanding rates of return across Asia and the Pacific. Contrarily, the current global food crisis exposed the fragility of food supply systems and undermined many earlier accomplishments in the fight against hunger and malnutrition. It also demonstrates the necessity of continuing to innovate. The key issue that needs to be resolved is when to cultivate certain crops. Machine learning techniques, which have been shown to be a successful method for forecasting the best harvest, can be used to do this. Crop selection and shifting climatic conditions are the two main problems that farmers must deal with. The dataset collected is originally split into a training dataset and a testing dataset. For the purpose of creating the crop suggestion prediction model, the ML model is given a training dataset. When the model has been created with the least amount of mistake and the greatest degree of accuracy, test data is presented to it. To the constructed model the inputs are fed. This study used a variety of machine learning techniques, including Decision Tree, Naive Bayes, Support Vector Machine, Logistic Regression, and Random Forest, to convey its recommendations for diverse Indian crops. These five different categories of machine learning algorithms were the subject of the analysis, and Nave Bayes produced the best accuracy results. The model has a 96.891% accuracy rate when predicting and making suggestions for the crops.

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202211065323
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/11/2022
APPLICANT NAME	1 . Ms Harleen Kaur 2 . Dr. G. Meena Devi 3 . PROF.DR.YEGNANARAYANAN VENKATARAMAN 4 . Kakara V V S Chowdary 5 . Dr PRAKASH CHANDRA SWAIN 6 . Dr Jitendra Sharma 7 . Dr. P. AKILA 8 . Ramesh Kumar 9 . Dr. Manoj AS 10 . AKHTAR HASAN JAMAL KHAN 11 . Dr Syed Afzal Ahmad 12 . Dr. V.Kannan
TITLE OF INVENTION	IMPACT ON DIGITAL AWARENESS PROGRAMME TOWARDS ONLINE FRAUD LOAN APP IN INDIA
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arinnapatent@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status

REPUBLIC OF SOUTH AFRICA | REGISTER OF PATENTS | PATENTS ACT, 1978

Official application No.	Lodging date: Provisional	Acceptance date
21 01 **2022/11886**	22	47 2022/11/30
International classification	Lodging date: Complete	Granted date
51 A61K	23 2022/11/01	2022/12/21

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71 Applicant substitued:	Date registrered

71 Assignee(s):	Date registrered

72 Full name(s) of inventor(s):

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Dr.Satyajit Panda
Dr.Kanchana N.Dussa
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Dr.Bibhuti Bhusana Panigrahi
Mr.Tankadhar Mishra
Dr.Goje Arjun
Mr.Sourab Ghosh

Priority claimed:	Country	Number	Date

54 Title of invention

A DRUG DELIVERY SYSTEM BY USING ARTIFICIAL INTELLIGENCE INTERFACES FOR PREPARING MICROEMULSIONS TO ENHANCE BIOAVAILABILITY

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74 Address for service
Wolmarans and Susan Inc. 337 Surrey Avenue, Randburg, 2194 SOUTH AFRICA Reference No.

61 Patent of addition No.	Date of any change
Fresh application based on.	Date of any change

RENEWAL SHEET

Year	Payment Date	Receipt Number	Amount

HISTORY SHEET

Date entry made	Description
2022-11-02	Request for the acceptance of a Patent electronically filed on 1/11/2022, numbered 2022/11886
2022-11-02	Proof reading performed automatically
2022-11-30	Application accepted on 30/11/2022.
2022-12-22	Patent advertised on 21-12-2022.
2022-12-22	Patent granted on 21-12-2022.

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

MR.SATYABRATA JENA; DR.NIRANJAN PANDA; DR.SATYAJIT PANDA; DR.KANCHANA N.DUSSA; DR.HIMANSU BHUSAN SAMAL; MR.SRIBATSA LANCHHANA DASH; DR.BIBHUTI BHUSANA PANIGRAHI; MR.TANKADHAR MISHRA; DR.GOJE ARJUN; MR.SOURAB GHOSH

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/11886

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **21st** day of **December 2022**

.....

Registrar of Patents

Centurion
UNIVERSITY

2023 Patent Details

Paralakhemundi Campus: At - Village Alluri Nagar, P.O - R Sitapur, Via - Uppalada, Paralakhemundi - 761 211, Dist: Gajapati, Odisha, Phone: (06815) 222999
Bhubaneswar Campus: At - Ramachandrapur, P.O - Jatni, Bhubaneswar - 752050, Dist: Khurda, Odisha, Phone: (0674) 2492496
Corporate Office: At - HIG - 4, Jaydev Vihar, Opp. Pal Heights, Bhubaneswar - 751013, Dist: Khurda, Odisha, India. **Website:** www.cutm.ac.in

Deutsches
Patent- und Markenamt

DPMAdirekt - elektronische Dokumentenannahme

Benachrichtigung über den Erhalt einer Gebrauchsmusteranmeldung:

Dokumenten Referenz-Nr. (DRN):	20221228131841 00DE
Anmeldung eingegangen am:	28.12.2022
Digitale Signatur	
Signaturniveau:	fortgeschritten
gültig von:	28.11.2022 01:00:00
gültig bis:	29.11.2027 00:59:59
Seriennummer:	181959849723879305184998840073159142 16
Herausgeber:	O=European Patent Office, CN=European Patent Office CA G2

Daten zum vorliegenden Vorgang:

amtliches Aktenzeichen:	20 2022 107 272.8
Barcode:	20 2022 107 272.8
Vorgangstyp:	Gebrauchsmusteranmeldung
Bezeichnung der Erfindung:	Ein System zur Analyse der Infektion mit Pseudomonas Syringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten
Ihr Zeichen:	G11949DE
Anmelder:	Centurion University of Technology and Management HIG-4, Jaydev Vihar, Dist: Khurda 751013 Bhubaneswar, Odisha IN

Deutsches
Patent- und Markenamt

DPMAdirekt - elektronische Dokumentenannahme

Folgende Dateien sind beim Deutschen Patent- und Markenamt eingegangen und wurden auf korrekte Syntax, Vollständigkeit der Anmeldedaten und zulässige Graphikformate erfolgreich validiert	**Specification.pdf (G11949DE Anmeldeunterlagen 24122022.pdf)** **DIRECTDEBIT.XML** **DE-UM-REQUEST.XML**
Hashwert des Antrags	24A2696901DC1AF1968860E86FBD9792A176299A
Folgende Formulare wurden automatisch aus den eingereichten Dateien generiert	**DE-UM-REQUEST.PDF** **DIRECTDEBIT.pdf**

Deutsches
Patent- und Markenamt

DPMAdirekt - elektronische Dokumentenannahme

Folgende Warnungen sind bei der Validierung aufgetreten:
[Anmelder: Die zusätzliche Adresszeile sollte die Länge von 100 Zeichen nicht überschreiten., Anmelder: Die zusätzliche Adresszeile sollte die Länge von 100 Zeichen nicht überschreiten., Anmelder: Die zusätzliche Adresszeile sollte die Länge von 100 Zeichen nicht überschreiten., Anmelder: Die zusätzliche Adresszeile sollte die Länge von 100 Zeichen nicht überschreiten.]

Diese Mitteilung wird signiert und verschlüsselt übertragen und bestätigt den Eingang der oben aufgelisteten Dateien im Deutschen Patent- und Markenamt. **Darüber hinaus sind zu diesem Zeitpunkt keine rechtlich verbindlichen Aussagen bezüglich des Inhaltes dieser Dateien möglich.** Fragen zu diesem Vorgang richten Sie bitte unter Angabe der DRN, des amtlichen Aktenzeichens und des Eingangsdatums an:

Deutsches Patent- und Markenamt
Zweibrückenstr. 12
80297 München
Telefon: 089 / 2195-1000
Fax: 089 / 2195-2221
E-Mail: info@dpma.de

Für **technische** Fragen rund um DPMAdirekt wenden Sie sich an unsere technische Kundenbetreuung:
E-Mail: DPMAdirekt@dpma.de

Deutsches Patent- und Markenamt

DPMA register

menu

Register information for utility models

File number DE: 20 2022 107 272.8 (status: pending/in force, as of: February 15, 2023)

Hit 1/1

|< < > >| ↩ Research ↩ hit list ⋮

BASE DATA

INID	criteria	Field	Contents
	property right type	SART	utility model
	status	ST	Pending/In Effect
21	Case number DE	DAKZ	20 2022 107 272.8
54	designation/title	ti	A system for analyzing infection with Pseudomonas Syringae by targeting cochaperones containing a J-domain
51	IPC main class	ICM (ICMV)	C12Q 1/04 (2006.01)
51	IPC minor class(es)	ICS (ICSV)	C12Q 1/68 (2018.01) , C12Q 1/686 (2018.01) , C12Q 1/6883 (2018.01) , G01N 33/53 (2006.01) , G01N 33/68 (2006.01)
22	Filing date DE	DATE	12/28/2022
47	registration day	ET	01/30/2023
71/73	Applicant/Owner	INH	Centurion University of Technology and Management, Bhubaneswar, Odisha, IN, Panigrahi, Gagan Kumar, Jatni, Odisha, IN, Sahoo, Annapurna, Nayagarh, Odisha, IN, Sahoo, Shraban Kumar, Sambalpur, Odisha, IN, Satapathy, Kunja Bihari, Bhubaneswar, Odisha, IN
74	Representative	VTR	Hohendorf Kierdorf Patent Attorneys PartGmbB, 50672 Cologne, DE
	delivery address		Hohendorf Kierdorf Patent Attorneys PartGmbB, 50672 Cologne, DE
	Due date	FT FG	12/31/2025 maintenance fee for the 4th-6th Year
43	initial release date	PUB	01/30/2023
	Day of first transfer to DPMAregister	ENERGIZED	01/30/2023

INID	criteria	Field	Contents
	Day of the (last) update in DPMAregister	REG	01/30/2023 (show all update days)

PROCEDURAL DATA

No.	procedure type	status of proceedings	status of proceedings ▲	initial release date	Close all details
1	pre-trial	The application is in the preliminary examination	12/28/2022		View Details
2	utility model proceedings	Registration of the utility model	01/30/2023		View Details

PROCEDURE VIEW UTILITY MODEL PROCEDURE : REGISTRATION OF THE UTILITY MODEL (NO.: 2) Close details

INID	criteria	Field	Contents
	procedure type	VART	utility model proceedings
	status of proceedings	VST	Registration of the utility model
	status of proceedings	VSTT	01/30/2023
	Procedure update date	REG	01/30/2023

Deutsches
Patent- und Markenamt

Registerauszug
zum
Aktenzeichen 20 2022 107 272.8

Stand am 15.02.2023
(letzte Aktualisierung in DPMAregister am 30.01.2023)

Es bestehen folgende Eintragungen:

Stammdaten

[-----] **Schutzrechtsart:** Gebrauchsmuster

[-----] **Status:** Anhängig/in Kraft

[21] **Aktenzeichen DE:** 20 2022 107 272.8

[54] **Bezeichnung/Titel:** Ein System zur Analyse der Infektion mit Pseudomonas Syringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten

[51] **IPC-Hauptklasse:** C12Q 1/04 (2006.01)

[51] **IPC-Nebenklasse(n):** C12Q 1/68 (2018.01);C12Q 1/686 (2018.01);C12Q 1/6883 (2018.01);G01N 33/53 (2006.01);G01N 33/68 (2006.01)

[22] **Anmeldetag DE:** 28.12.2022

[47] **Eintragungstag:** 30.01.2023

[71/73] **Anmelder/Inhaber:** Centurion University of Technology and Management, Bhubaneswar, Odisha, IN, Panigrahi, Gagan Kumar, Jatni, Odisha, IN, Sahoo, Annapurna, Nayagarh, Odisha, IN, Sahoo, Shraban Kumar, Sambalpur, Odisha, IN, Satapathy, Kunja Bihari, Bhubaneswar, Odisha, IN

[74] **Vertreter:** Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

[-----] **Zustellanschrift:** Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

[-----] **Fälligkeit:** Aufrechterhaltungsgebühr für das 4.-6. Jahr/ 31.12.2025

[43] **Erstveröffentlichungstag:** 30.01.2023

[-----] **Tag der ersten Übernahme in DPMAregister:** 30.01.2023

[-----] **Tag der (letzten) Aktualisierung in DPMAregister:** 30.01.2023

Verfahrensdaten

Vorverfahren

[-----] **Verfahrensart:** Vorverfahren

[-----] **Verfahrensstand:** Die Anmeldung befindet sich in der Vorprüfung

[-----] **Verfahrensstandstag:** 28.12.2022

[-----] **Tag der Aktualisierung des Verfahrens:** 30.01.2023

Gebrauchsmusterverfahren

[-----] **Verfahrensart:** Gebrauchsmusterverfahren

[-----] **Verfahrensstand:** Eintragung des Gebrauchsmusters

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Patent- und Markenamt

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Die aus der beiliegenden Antragskopie ersichtliche Gebrauchsmusteranmeldung ist am 28.12.2022 beim Deutschen Patent- und Markenamt eingegangen.
Die Anmeldung hat das **Aktenzeichen 20 2022 107 272.8** erhalten.

Eingegangene Unterlagen:

19 Seite(n) mit Beschreibung

4 Seite(n) Schutzansprüche mit 10 Schutzansprüchen

2 Blatt Zeichnung(en)

0 Abschrift(en) der Voranmeldung(en)

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Auf der nächsten Seite befinden sich weitere Informationen zu den Gebühren sowie Zahlungshinweise.

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Gebührensätze

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2023

(21) Application No.202341002964 A
(43) Publication Date : 17/02/2023

(54) Title of the invention : Nano formulations-based drug delivery to reach blood brain barrier

(51) International classification :A61P0035000000, C12N0015113000, A61P0025160000, A61P0025000000, C07K0016280000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The disclosure provides a composition that includes a nanoconjugate. The nanoconjugate includes a polynucleotide that is sufficiently complementary to a target polynucleotide. The target polynucleotide encodes a polypeptide that is specifically expressed in a central nervous system (CNS) disorder. The nanoconjugate also has the ability to cross the blood-brain barrier (BBB). In a few of the possible implementations, the composition also includes a targeting moiety. The abnormal expression of genes may, in some cases, be traced back to the origin of the condition. In some implementations, the composition also includes a therapeutic agent, while in other implementations, the therapeutic agent is temozolamide. Both of these may be thought of as embodiments. A targeted moiety and/or a therapeutic drug may be included in the nanoconjugate in some implementations of the design.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/01/2023

(21) Application No.202311002700 A
(43) Publication Date : 20/01/2023

(54) Title of the invention : A STUDY TO ANALYSE THE IMPACT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN NUCLEAR PHYSICS

(51) International classification :G21B0003000000, G21B0001030000, B23K0035300000, G21H0001100000, C08G0059180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
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Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
An electrode for use in an apparatus for causing nuclear fusion reactions at a low temperature being characterized in that said electrode is made of an alloy being capable of occluding hydrogen isotopes. The electrode for use in an apparatus for causing nuclear fusion reactions at a low temperature being characterized in that said electrode is formed as a sphere. An electrode for use in an apparatus for causing nuclear fusion reactions at a low temperature being characterized in that said electrode is made of an amorphous metal or alloy not having a crystal lattice rule of long period as a main component. receiving photons and thermal waves emitted from a radioactive material at a Nuclear Thermionic Avalanche Cell. Outputting avalanche electrons using in part the received photons.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/12/2022

(21) Application No.202241073627 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : A method for preparing nanogels for cancer drug delivery

(51) International classification :A61P0035000000, A61K0051040000, A61K0009060000, A61K0049000000, A61K0033243000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
A nano-sized hydrogel may be created from a chain that is water-soluble and contains carboxylic acid moieties as well as polyethylene side chains. It is possible to use such a nanogel as a delivery agent for cancer drugs, such as cisplatin, or as an imaging agent, such as Gd3+. Both of these applications are possible with this kind of nanogel. The production of hydrogel is caused by the complexation of the agent that treats cancer with the imaging agent that uses carboxyl groups.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/01/2023

(21) Application No.202341000508 A
(43) Publication Date : 06/01/2023

(54) Title of the invention : A SYSTEM FOR EARLY-STAGE DISEASE DETECTION AND HIGH-RISK PATIENT IDENTIFICATION AND WORKING METHOD THEREOF

(51) International classification :G16H0010600000, G16H0040670000, A61B0005000000, G16H0010650000, G06F0021310000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses a system for early-stage disease detection and high-risk patient identification and working method thereof. In the present invention, a Unique Patient Identification module reliably and securely captures, stores, and disseminates a patient's essential medical and bioinformatics data to the appropriate parties; and a secure login portal that necessitates the input of personal information before granting access to a medical file of a patient; this portal must also include an emergency access code that grants only read-only access to the medical data of the patient in the event of an emergency. Further, a sensing and/or tracking mechanism allows for patient monitoring, location tracking, and rescue via alert triggers and database(s) having multiple patient files, each of which is associated with a patient and contains patient information, the patient information defining a medical history of the patient, the patient information contained in multiple fields within each patient file. Accompanied Drawing [FIGS. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/01/2023

(21) Application No.202331004813 A
(43) Publication Date : 27/01/2023

(54) Title of the invention : A SYSTEM PROVIDED FOR NANOROBOTIC ARM TO OPERATE IN THE ENDOSCOPY AND WORKING METHOD THEREOF

(51) International classification :A61B0001000000, A61B0001040000, B25J0018000000, A61B0001060000, A61B0017000000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention discloses a system provided for nanorobotic arm to operate in the endoscopy and working method thereof. In the present invention, Some examples of nanorobotic arms equipped with an endoscopic arm and its movable parts include nano propellers with flagella membranes, crawlers, and nano Brownian motors; in yet another configuration, the nanorobots can draw power from fluid within the endoscopic control system formation itself; and two inboard links pivotally coupled to the two-outboard links in such a way that the inboard links cross over one another. Further, an endoscopic camera, two outward-pointing links pivotally coupled together at an outward-pointing axis, at least one of the outward-pointing links supporting the endoscopic camera, and a constraint to limit rotation of the outward-pointing links about the outboard axis, so that the two outward-pointing links are constrained to have a minimum angle between them of 15 degrees. Accompanied Drawing [FIGS. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/01/2023

(21) Application No.202341001642 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : A Phytoconstituent loaded nanogel formulation for the treatment of cancer

(51) International classification	:A61P0035000000, A61K0009060000, A61K0033243000, A61K0008040000, A61K0049000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
To create a Nano-sized hydrogel, a water-soluble chain is formed from carboxylic acid moieties and polyethylene side chains. Such a nanogel is appropriate as a cancer-drug delivery agent or an imagining agent, where either a cancer medicine, such as cisplatin, or an imaging agent. Forming hydrogels is a result of the complexation of the cancer medication or imaging agent with the carboxyl moieties.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/01/2023

(21) Application No.202331004706 A
(43) Publication Date : 10/02/2023

(54) Title of the invention : IMPLEMENTATION OF TECHNIQUES TO UNDERSTAND THE IMPACT OF NANO DELIVERY SYSTEMS IN THE TREATMENT OF CARDIOVASCULAR DISEASES

(51) International classification	:A61P0009000000, A61B0005145000, A61P0035000000, A61P0009100000, A61B0006000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Implementation of techniques to understand the Impact of Nano Delivery Systems in the Treatment of Cardiovascular Diseases is the proposed invention. The proposed invention focuses on analyzing the various nano drug delivery systems. The invention aims at implementing techniques to treat cardio vascular diseases efficiently.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2023

(21) Application No.202341003008 A
(43) Publication Date : 17/02/2023

(54) Title of the invention : TARGETING TUMOUR MICROENVIRONMENT WITH NANOPARTICLE-BASED DRUG DELIVERY SYSTEMS FOR CANCER IMMUNOTHERAPY RESISTANCE

(51) International classification :A61P0035000000, A61K0039000000, G06N0003080000, A61B0005145000, A61K0047610000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
Targeting Tumour Microenvironment with Nanoparticle-Based Drug Delivery Systems for Cancer Immunotherapy Resistance is the proposed invention. The proposed invention focuses on studying the tumour microenvironment. The nanoparticle-based drug delivery system for cancer immunotherapy resistance is analysed using the algorithms of deep learning.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/12/2022

(21) Application No.202241075365 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : TOPICAL COMPOSITIONS CONTAINING SALVIA PLEBEIAN, ALTERNANTHERA PHILOXEROIDES WITH AJUGA FORRESTII EXTRACT FOR TREATING OR PREVENTING DRY SKIN OR INFLAMMATORY CONDITIONS OF THE SKIN

(51) International classification	:A61K0036889000, A61K0036530000, A61Q0019000000, A61Q0019080000, A61P0017000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
TOPICAL COMPOSITIONS CONTAINING SALVIA PLEBEIAN, ALTERNANTHERA PHILOXEROIDES WITH AJUGA FORRESTII EXTRACT FOR TREATING OR PREVENTING DRY SKIN OR INFLAMMATORY CONDITIONS OF THE SKIN A method of a method of topical compositions containing salvia plebeian, alternanthera philoxeroides with ajuga forrestii extract for treating or preventing dry skin or inflammatory conditions of the skin. applying to the skin of the person a composition comprising an effective amount of an aqueous, alcoholic, or aqueous-alcoholic extract from Livistona chinensis. A copolymer of a monomeric mixture consisting of acrylic acid and about 10% by weight on the total monomers of a polyether of sucrose in which the hydroxyl groups which are modified tare etherified with allyl groups, said polyether containing at least two allyl groups per sucrose molecule. A tripolymer of a monomeric mixture consisting of 41.5 to 43% by weight of acrylic acid, from 0.2 to 2.5 by weight of a polyether of sucrose in which the hydroxyl groups which are modified are etherified with allyl groups.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/01/2023

(21) Application No.202341001561 A
(43) Publication Date : 27/01/2023

(54) Title of the invention : IMPLEMENTATION OF EFFECTIVE DRUG DELIVERY SYSTEM FOR CANCER IMMUNOTHERAPY USING POROUS NANOMATERIALS

(51) International classification	:A61P0035000000, A61K0039000000, A61M0005000000, A61K0035130000, A61K0009127000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Implementation of effective Drug Delivery system for Cancer Immunotherapy using Porous Nanomaterials is the proposed invention. The invention focuses on analyzing the various drug delivery systems in treating cancer patients. The proposed invention aims at analyzing the impact of porous nanomaterials on cancer immunotherapy.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/12/2022

(21) Application No.202241075661 A

(43) Publication Date : 13/01/2023

(54) Title of the invention : MACHINE LEARNING BASED APPROACH FOR BUILDING CORPORATE REPUTATION THROUGH SOCIAL MEDIA MARKETING EFFORTS

(51) International classification :G06Q0050000000, G06N0020000000, G06Q0030020000, G06Q0010040000, G06N0003080000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :

Machine Learning based approach for Building Corporate Reputation through Social Media Marketing Efforts is the proposed invention. The invention focuses on understanding the importance of social media marketing for improving and building reputation of corporate companies. The invention will utilize the algorithms of prediction for the purpose of prediction and analysis.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/01/2023

(21) Application No.202311001560 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : DEEP LEARNING APPROACH FOR STRENGTHEN DETECTION OF CORONAVIRUS DISEASE

(51) International classification :G06N0003080000, G06N0003040000, G16H0050200000, G06T0011000000, A61B0006000000
(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Rapid and accurate detection of COVID-19 coronavirus is necessity of time to prevent and control of this pandemic by timely quarantine and medical treatment in absence of any vaccine. Daily increase in cases of COVID-19 patients worldwide and limited number of available detection kits pose difficulty in identifying the presence of disease. Therefore, at this point of time, necessity arises to look for other alternatives. Among already existing, widely available and low-cost resources, X-ray is frequently used imaging modality and on the other hand, deep learning techniques have achieved state-of-the-art performances in computer-aided medical diagnosis. Therefore, an alternative diagnostic tool to detect COVID-19 cases utilizing available resources and advanced deep learning techniques is proposed in this work. The proposed method is implemented in four phases, viz., data augmentation, preprocessing, stage-I and stage-II deep network model designing. This study is performed with online available resources of 1215 images and further strengthen by utilizing data augmentation techniques to provide better generalization of the model and to prevent the model overfitting by increasing the overall length of dataset to 1832 images. Deep network implementation in two stages is designed to differentiate COVID-19 induced pneumonia from healthy cases, bacterial and other virus induced pneumonia on X-ray images of chest. Comprehensive evaluations have been performed to demonstrate the effectiveness.

No. of Pages : 13 No. of Claims : 7

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Application Details	
APPLICATION NUMBER	202341007733
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/02/2023
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FIELD OF INVENTION	COMPUTER SCIENCE
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Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2023

(21) Application No.202341017994 A
(43) Publication Date : 31/03/2023

(54) Title of the invention : Organic Evaluation of Safety and Efficacy and Cognitive Profile of two effective drugs for Schizophrenia Patients

(51) International classification :A61P 251800, H04N 191260, H04N 191300, H04N 191960, H04N 195100
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The main determinants of therapy response in schizophrenia include impaired cognitive processes. Traditional antipsychotics have negative side effects and little effect on cognitive dysfunctions. The use of atypical antipsychotics in the treatment of cognitive and unfavourable symptoms of schizophrenia has showed potential. Research is being done to determine which atypical antipsychotic is the most effective. Objective. to compare olanzapine's cognitive profile, amisulpride's iii cognitive profile, and their effectiveness in treating acute psychotic exacerbations of schizophrenia. Method. We employed an 8-week prospective, randomised, double-blind, single-center clinical trial. Treatments and Topics.

No. of Pages : 10 No. of Claims : 1

Patent number
2022/12009

Title of invention
A METHOD FOR DETERMINING THE EFFECTS OF PHYTOBIOTIC ESSENTIAL OILS ON GROWTH PERFORMANCE, HEMATOLOGICAL PARAMETER AND EGG QUALITY OF POULTRY BIRDS

Date of application
2022-11-03

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IPC Class
A23K

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Patent abstract
The present disclosure relates to a method for determining the effects of phytobiotic essential oils on the growth performance, hematological parameters and egg quality of poultry birds. In this disclosure, phytobiotic essential oils namely black pepper, turmeric, and fennel is prepared and administrated to the poultry birds at different concentration. The effects of these prepared essential oils on the growth performance, hematological parameters, and quality of eggs of Gallus gallus are determined by using a developed back propagation extreme learning machine model. The present disclosure, showed that phytobiotics essential oils can be a very good replaced of antibiotic growth promoters in improving the performance of chickens, and can be immunostimulants for them.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023

(21) Application No.202341013115 A
(43) Publication Date : 17/03/2023

(54) Title of the invention : A METHOD OF CHARACTERIZING AND EVALUATING A TARGETED DRUG DELIVERY FOR MALIGNANT TUMOURS

(51) International classification :A61P 350000, C07D 050600, C07D 051400, C12Q 016886, G06T 070000
(86) International Application No :PCT//
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(87) International Publication No : NA
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(57) Abstract :
The present invention relates to a method for characterizing and evaluating a targeted drug delivery system for malignant tumours. The method involves administering the drug delivery system to a patient with a malignant tumour and obtaining a tissue sample from the tumour site. The drug distribution in the tumour tissue is then measured and compared to a predetermined therapeutic threshold to determine if the drug delivery system is effective. The method also involves measuring the expression levels of tumour-specific receptors in the tissue sample and correlating the receptor expression with drug distribution in the tumour tissue. This provides a more targeted approach to anti-cancer therapy, allowing for optimization of drug delivery to tumour sites and improving therapeutic efficacy. The method can be repeated as necessary to optimize drug delivery efficacy and improve therapeutic outcomes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/05/2023

(21) Application No.202311036013 A
(43) Publication Date : 30/06/2023

(54) Title of the invention : INNOVATIVE AND ALTERNATIVE OCULAR DRUG DELIVERY SYSTEM FOR INCREASED EFFICIENCY

(51) International classification	:A61F 090000, A61K 090000, A61P 270200, C08K 030400, G06F 074910
(86) International Application No	:NA
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(57) Abstract :
ABSTRACT The invention relates to the field of Pharmacy and application of this invention is to implement Innovative and alternative Ocular drug delivery system for increased efficiency. Because of its anatomy and physiology, the eye is a well-protected organ. It has been regarded as a challenging undertaking to develop an effective treatment for ocular illnesses, particularly those affecting the posterior segment. Scientists have been challenged to identify other modes of administration, such as periocular channels, due to the limitations of topical and intravitreal methods. Due to its potential to get around several difficulties with existing therapy, transporter focused drug delivery has attracted a lot of attention in the field.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202331032282 A
(19) INDIA
(22) Date of filing of Application :07/05/2023
(43) Publication Date : 19/05/2023

(54) Title of the invention : Composition of green-synthesized nanometals from plant extracts for use in antimicrobial coating

(51) International classification :A61P 31/04
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The proposed invention involves the green synthesis of nanometals from plant extracts for use in antimicrobial coatings. The plant extracts are used as reducing and capping agents, resulting in nanometals with high stability and biocompatibility. The resulting nanometals are then incorporated into various coating materials to create antimicrobial coatings that have the potential to inhibit the growth of harmful bacteria, fungi, and other pathogens. The green-synthesized nanometals also have unique optical and electronic properties, making them useful for a wide range of applications. The proposed invention offers a sustainable and cost-effective solution to the limitations of current antimicrobial coatings, while also contributing to the development of new plant-based materials and the field of nanotechnology.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/05/2023

(21) Application No.202311031693 A
(43) Publication Date : 09/06/2023

(54) Title of the invention : STUDIES ON THE DESIGN AND DEVELOPMENT OF DISSOLVABLE ORAL MEDICATION DELIVERY SYSTEMS FOR A WEAKLY WATER-SOLUBLE NON-STEROIDAL ANTI-INFLAMMATORY MEDICINE

(51) International classification	:A61K 090600, A61K 311920, A61M 053150, A61P 290000, C11B 090000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
STUDIES ON THE DESIGN AND DEVELOPMENT OF DISSOLVABLE ORAL MEDICATION DELIVERY SYSTEMS FOR A WEAKLY WATER-SOLUBLE NON-STEROIDAL ANTI-INFLAMMATORY MEDICINE 5 A method of treating together with single dose applicators, devices for delivering the drug formulations to the oral mucosa, and methods for using them, bio adhesive drug formulations that adhere to an oral mucosal membrane of a subject are provided. Before a drug-containing tablet from the plurality of drug-containing tablets can be administered via the cartridge outlet of the device, the shipping tablet must be dispensed there. The substrate that the lipid generated 10 by the biodegradable polymer is saturated is included in the compositions that extend the release of the active component. It relates to hyaluronic acid derivative solutions, sets, and medical injection sets, including solutions of hyaluronic acid derivative, as well as pharmaceutical agents for the treatment of arthritis, the suppression of pain, and/or the suppression of inflammation. The lipid oxide of fresh synthesis is offered, utilized to treat lipid 15 oxide, and serves as a preventative measure for inflammation caused by endogenous oxidized lipids.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/05/2023

(21) Application No.202341034845 A
(43) Publication Date : 16/06/2023

(54) Title of the invention : CYBER PHYSICAL SYSTEM FOR HUMAN RESOURCE MANAGEMENT TO INCREASE GREEN CORPORATE IMAGE

(51) International classification :A61K 367100, G05B 130400, G06Q 100600, G06Q 101000, G10L 152600
(86) International Application No :NA
Filing Date :NA
(87) 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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5)Dr. RAVI KUMAR PENKI
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Name of Applicant : NA
Address of Applicant : NA
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(57) Abstract :
A cyber-physical system for human resource management can indeed contribute to increasing a company's green corporate image. By integrating digital technologies and physical systems, such a system can optimize various aspects of human resource management while promoting environmental sustainability. Here are some ways in which it can be achieved: Remote Work and Collaboration: Implementing remote work policies and providing the necessary digital infrastructure can reduce the need for daily commuting, resulting in lower carbon emissions from transportation. Collaboration tools, video conferencing, and virtual meetings can be employed to facilitate remote work and minimize the environmental impact associated with business travel. Energy Management: A cyber-physical system can help monitor and manage energy consumption within the workplace. It can include smart sensors and’meters to track energy usage, occupancy sensors to optimize lighting and HVAC systems, and automated controls to ensure energy-efficient operations. By reducing energy waste, companies can lower their carbon footprint and improve their green image. Overall, a cyber-physical system for human resource management can play a vital role in increasing a company's green corporate image. By leveraging technology to optimize processes, reduce resource consumption, and engage employees in sustainability initiatives, companies can demonstrate their commitment to environmental responsibility and position themselves as leaders in green practices.

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202331042404
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/06/2023
APPLICANT NAME	1 . Dr. Sujit Mishra 2 . Dr. Ashok Misra 3 . Dr. Panyam Venkata Satya Narayana 4 . Dr. Saroj Kumar Mishra
TITLE OF INVENTION	Model for Aerodynamic Drag Improvement in Realistic Simplified Car with Dusty Fluid Simulations
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	ramesh.panda.mech@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/06/2023

Application Status

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 107 272

Bezeichnung:

Ein System zur Analyse der Infektion mit Pseudomonas Syringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten

IPC:

C12Q 1/04

Inhaber/Inhaberin:

Centurion University of Technology and Management, Bhubaneswar, Odisha, IN
Panigrahi, Gagan Kumar, Jatni, Odisha, IN
Sahoo, Annapurna, Nayagarh, Odisha, IN
Sahoo, Shraban Kumar, Sambalpur, Odisha, IN
Satapathy, Kunja Bihari, Bhubaneswar, Odisha, IN

Tag der Anmeldung:

28.12.2022

Tag der Eintragung:

30.01.2023

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 30.01.2023

DEUTSCHES PATENT- UND MARKENAMT

Deutsches
Patent- und Markenamt

DPMAdirekt - elektronische Dokumentenannahme

Benachrichtigung über den Erhalt einer Gebrauchsmusteranmeldung:

Dokumenten Referenz-Nr. (DRN):	20221228131841 00DE
Anmeldung eingegangen am:	28.12.2022
Digitale Signatur	
Signaturniveau:	fortgeschritten
gültig von:	28.11.2022 01:00:00
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Seriennummer:	181959849723879305184998840073159142 16
Herausgeber:	O=European Patent Office, CN=European Patent Office CA G2

Daten zum vorliegenden Vorgang:

amtliches Aktenzeichen:	20 2022 107 272.8
Barcode:	20 2022 107 272.8
Vorgangstyp:	Gebrauchsmusteranmeldung
Bezeichnung der Erfindung:	Ein System zur Analyse der Infektion mit Pseudomonas Syringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten
Ihr Zeichen:	G11949DE
Anmelder:	Centurion University of Technology and Management HIG-4, Jaydev Vihar, Dist: Khurda 751013 Bhubaneswar, Odisha IN

Deutsches
Patent- und Markenamt

DPMAdirekt - elektronische Dokumentenannahme

Folgende Dateien sind beim Deutschen Patent- und Markenamt eingegangen und wurden auf korrekte Syntax, Vollständigkeit der Anmeldedaten und zulässige Graphikformate erfolgreich validiert	**Specification.pdf (G11949DE Anmeldeunterlagen 24122022.pdf)** **DIRECTDEBIT.XML** **DE-UM-REQUEST.XML**
Hashwert des Antrags	24A2696901DC1AF1968860E86FBD9792A176299A
Folgende Formulare wurden automatisch aus den eingereichten Dateien generiert	**DE-UM-REQUEST.PDF** **DIRECTDEBIT.pdf**

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80297 München
Telefon: 089 / 2195-1000
Fax: 089 / 2195-2221
E-Mail: info@dpma.de

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E-Mail: DPMAdirekt@dpma.de

Deutsches Patent- und Markenamt

DPMA register

menu

Register information for utility models

File number DE: 20 2022 107 272.8 (status: pending/in force, as of: February 15, 2023)

Hit 1/1

|< < > >| ↩ Research ↩ hit list ⋮

BASE DATA

INID	criteria	Field	Contents
	property right type	SART	utility model
	status	ST	Pending/In Effect
21	Case number DE	DAKZ	20 2022 107 272.8
54	designation/title	ti	A system for analyzing infection with Pseudomonas Syringae by targeting cochaperones containing a J-domain
51	IPC main class	ICM (ICMV)	C12Q 1/04 (2006.01)
51	IPC minor class(es)	ICS (ICSV)	C12Q 1/68 (2018.01) , C12Q 1/686 (2018.01) , C12Q 1/6883 (2018.01) , G01N 33/53 (2006.01) , G01N 33/68 (2006.01)
22	Filing date DE	DATE	12/28/2022
47	registration day	ET	01/30/2023
71/73	Applicant/Owner	INH	Centurion University of Technology and Management, Bhubaneswar, Odisha, IN, Panigrahi, Gagan Kumar, Jatni, Odisha, IN, Sahoo, Annapurna, Nayagarh, Odisha, IN, Sahoo, Shraban Kumar, Sambalpur, Odisha, IN, Satapathy, Kunja Bihari, Bhubaneswar, Odisha, IN
74	Representative	VTR	Hohendorf Kierdorf Patent Attorneys PartGmbB, 50672 Cologne, DE
	delivery address		Hohendorf Kierdorf Patent Attorneys PartGmbB, 50672 Cologne, DE
	Due date	FT FG	12/31/2025 maintenance fee for the 4th-6th Year
43	initial release date	PUB	01/30/2023
	Day of first transfer to DPMAregister	ENERGIZED	01/30/2023

INID	criteria	Field	Contents
	Day of the (last) update in DPMAregister	REG	01/30/2023 (show all update days)

PROCEDURAL DATA

No.	procedure type	status of proceedings	status of proceedings ▲	initial release date	Close all details
1	pre-trial	The application is in the preliminary examination	12/28/2022		View Details
2	utility model proceedings	Registration of the utility model	01/30/2023		View Details

PROCEDURE VIEW UTILITY MODEL PROCEDURE : REGISTRATION OF THE UTILITY MODEL (NO.: 2) Close details

INID	criteria	Field	Contents
	procedure type	VART	utility model proceedings
	status of proceedings	VST	Registration of the utility model
	status of proceedings	VSTT	01/30/2023
	Procedure update date	REG	01/30/2023

Deutsches
Patent- und Markenamt

Registerauszug
zum
Aktenzeichen 20 2022 107 272.8

Stand am 15.02.2023
(letzte Aktualisierung in DPMAregister am 30.01.2023)

Es bestehen folgende Eintragungen:

Stammdaten

[-----] **Schutzrechtsart:** Gebrauchsmuster

[-----] **Status:** Anhängig/in Kraft

[21] **Aktenzeichen DE:** 20 2022 107 272.8

[54] **Bezeichnung/Titel:** Ein System zur Analyse der Infektion mit Pseudomonas Syringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten

[51] **IPC-Hauptklasse:** C12Q 1/04 (2006.01)

[51] **IPC-Nebenklasse(n):** C12Q 1/68 (2018.01);C12Q 1/686 (2018.01);C12Q 1/6883 (2018.01);G01N 33/53 (2006.01);G01N 33/68 (2006.01)

[22] **Anmeldetag DE:** 28.12.2022

[47] **Eintragungstag:** 30.01.2023

[71/73] **Anmelder/Inhaber:** Centurion University of Technology and Management, Bhubaneswar, Odisha, IN, Panigrahi, Gagan Kumar, Jatni, Odisha, IN, Sahoo, Annapurna, Nayagarh, Odisha, IN, Sahoo, Shraban Kumar, Sambalpur, Odisha, IN, Satapathy, Kunja Bihari, Bhubaneswar, Odisha, IN

[74] **Vertreter:** Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

[-----] **Zustellanschrift:** Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

[-----] **Fälligkeit:** Aufrechterhaltungsgebühr für das 4.-6. Jahr/ 31.12.2025

[43] **Erstveröffentlichungstag:** 30.01.2023

[-----] **Tag der ersten Übernahme in DPMAregister:** 30.01.2023

[-----] **Tag der (letzten) Aktualisierung in DPMAregister:** 30.01.2023

Verfahrensdaten

Vorverfahren

[-----] **Verfahrensart:** Vorverfahren

[-----] **Verfahrensstand:** Die Anmeldung befindet sich in der Vorprüfung

[-----] **Verfahrensstandstag:** 28.12.2022

[-----] **Tag der Aktualisierung des Verfahrens:** 30.01.2023

Gebrauchsmusterverfahren

[-----] **Verfahrensart:** Gebrauchsmusterverfahren

[-----] **Verfahrensstand:** Eintragung des Gebrauchsmusters

[-----] **Verfahrensstandstag:** 30.01.2023

[-----] **Tag der Aktualisierung des Verfahrens:** 30.01.2023

Deutsches
Patent- und Markenamt

POSTANSCHRIFT Deutsches Patent- und Markenamt • 80297 München

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INTERNET www.dpma.de
AKTENZEICHEN 20 2022 107 272.8
ANMELDER/INHABER Centurion University of Technology and Management u.a.
IHR ZEICHEN G11949DE
ERSTELLT AM 04.01.2023

Bitte Aktenzeichen und Anmelder/Inhaber bei allen Eingaben und Zahlungen angeben!

Empfangsbestätigung für eine Gebrauchsmusteranmeldung

Die aus der beiliegenden Antragskopie ersichtliche Gebrauchsmusteranmeldung ist am 28.12.2022 beim Deutschen Patent- und Markenamt eingegangen.
Die Anmeldung hat das **Aktenzeichen 20 2022 107 272.8** erhalten.

Eingegangene Unterlagen:

19 Seite(n) mit Beschreibung

4 Seite(n) Schutzansprüche mit 10 Schutzansprüchen

2 Blatt Zeichnung(en)

0 Abschrift(en) der Voranmeldung(en)

☐ Abschrift der Voranmeldung bei Abzweigung

☐ Vertretervollmacht

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Auf der nächsten Seite befinden sich weitere Informationen zu den Gebühren sowie Zahlungshinweise.

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Zugang DPMAdirektPro

Anlage(n)

Gebührensätze

Anmeldegebühr	
bei Anmeldung in elektronischer Form	30,-- EUR (Gebührennummer 321 000)
bei Anmeldung in Papierform	40,-- EUR (Gebührennummer 321 100)
Recherchegebühr	250,-- EUR (Gebührennummer 321 200)

Bei jeder Zahlung ist das vollständige **Aktenzeichen**, die genaue Bezeichnung des **Anmelders** und der **Verwendungszweck in Form der Gebührennummer** (s. unten) in deutlicher Schrift anzugeben.

Die **Recherchegebühr** verfällt mit Zahlung; eine Erstattung der Gebühr findet daher auch dann nicht statt, wenn die Recherche z.B. wegen Zurücknahme oder Zurückweisung der Anmeldung abgebrochen werden muss. Es wird daher empfohlen, den Rechercheantrag erst dann zu stellen, wenn feststeht, dass der Eintragung keine Hindernisse im Wege stehen.

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   Danach können Gebühren wie folgt entrichtet werden:
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   b) durch Überweisung auf das auf der ersten Seite dieses Schreibens angegebene Konto der Bundeskasse für das Deutsche Patent- und Markenamt,
   c) durch (Bar-) Einzahlung mit Zahlschein bei der Postbank oder bei allen Banken und Sparkassen auf das auf der ersten Seite dieses Schreibens angegebene Konto der Bundeskasse für das Deutsche Patent- und Markenamt oder
   d) durch Erteilung eines gültigen SEPA-Basis-Lastschriftmandats mit Angaben zum Verwendungszweck. Bitte benutzen Sie hierfür die auf unserer Internetseite www.dpma.de bereitgestellten Formulare (A 9530 und A 9532) und beachten Sie die dort zur Verfügung stehenden Hinweise zum SEPA-Verfahren.

   Das SEPA-Mandat muss dem DPMA immer im Original vorliegen. Bei einer Übermittlung per Fax muss das SEPA-Mandat im Original innerhalb eines Monats nachgereicht werden, damit der Zahlungstag gewahrt bleibt.
2. Bei jeder Zahlung sind das vollständige **Aktenzeichen**, die genaue Bezeichnung des **Anmelders (Inhabers)** und die **Gebührennummern** in deutlicher Schrift anzugeben. Die Gebührennummern ergeben sich aus dem Gebührenverzeichnis des Patentkostengesetzes (PatKostG), das auch im Kostenmerkblatt A 9510 des Deutschen Patent- und Markenamts abgedruckt ist.
   Unkorrekte bzw. unvollständige Angaben führen zu Verzögerungen bei der Bearbeitung.
3. Als **Einzahlungstag** gilt gemäß § 2 PatKostZV
   a) bei Barzahlung der Tag der Einzahlung,
   b) bei Überweisung der Tag, an dem der Betrag auf dem Konto der Bundeskasse für das Deutsche Patent- und Markenamt gutgeschrieben wird,
   c) bei (Bar-) Einzahlung auf ein Konto der Bundeskasse für das Deutsche Patent- und Markenamt der Tag der Einzahlung.
   Da die Bundeskasse die Bareinzahlung von der Überweisung nach b) nicht anhand der Buchungsunterlagen zu unterscheiden vermag, sollte der Bareinzahler, wenn er den nach dieser Zahlungsform vorverlagerten Einzahlungstag geltend machen möchte, dem Deutschen Patent- und Markenamt **unverzüglich** den vom Geldinstitut ausgestellten **Einzahlungsbeleg** vorlegen;

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REPUBLIC OF SOUTH AFRICA | REGISTER OF PATENTS | PATENTS ACT, 1978

Official application No.	Lodging date: Provisional	Acceptance date
21 01 **2023/02843**	22	47 2023/05/17
International classification	Lodging date: Complete	Granted date
51 A01N	23 2023/02/27	2023/05/31

71 Full name(s) of applicant(s)/Patentee(s):

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71 Assignee(s):	Date registrered

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Priority claimed:	Country	Number	Date

54 Title of invention

A COMPOSITION AND METHOD FOR PROVIDING RESISTANCE AGAINST PATHOGEN INFECTION AND DROUGHT STRESS IN ARABIDOPSIS

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/02/2023

(21) Application No.202341013001 A

(43) Publication Date : 17/03/2023

(54) Title of the invention : A METHOD OF MAKING AND USING COMPOSITIONS OF METAL NANOPARTICLES FORMED BY GREEN CHEMISTRY SYNTHETIC TECHNIQUES

(51) International classification :B82Y 300000, B82Y 400000, C08F 930000, C09D 050800, H01M 100525

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

A METHOD OF MAKING AND USING COMPOSITIONS OF METAL NANOPARTICLES FORMED BY GREEN CHEMISTRY SYNTHETIC TECHNIQUES Porous non-zeolitic carrier particles supporting metal halide within the pores of said carrier particles, wherein the average pore size of the carrier particles is greater than. Surface-modified metal nanoparticles comprising a metal core and a coating layer. The coating layer comprising at least one ligand bound to the surface of the metal core and conjugated to polyethylene glycol, wherein at least one ligand is selected from the group consisting of free n-acetyl cysteine, albumin, and free cysteine. The plant extract is selected from the group consisting of tea extract, green tea extract, coffee extract, lemon balm extract, sorghum bran, sorghum bran extract, and polyphenolic flavonoid. Adding at least one ligand conjugated to polyethylene glycol to a mixture comprising metal nanoparticles. The at least one ligand binds to the surface of at least one metal nanoparticle core, yielding a surface-modified metal nanoparticle, wherein the ligand is selected from the group consisting of free n-acetyl cysteine.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2023

(21) Application No.202341017993 A
(43) Publication Date : 31/03/2023

(54) Title of the invention : Formulation and Evaluation of Herbal Handwash with potential Anti- Bacterial Action

(51) International classification	:A01N 250800, A61K 084000, A61K 089000, A61Q 170000, C11D 015200
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The main method of spreading diseases and germs is through the hands. In addition to being crucial for food preparation and serving, hand washing is also necessary in households, daycare facilities, and healthcare settings. The goal of the current study was to compare the antibacterial effectiveness of many herbal oils, including lavender, eucalyptus, and cinnamon. It was discovered that cinnamon oil had superior antibacterial action. The formulation and evaluation of a poly herbal hand wash gel containing Azadirachta indica, Ocimum sanctum, and citrus limon extracts were also the subjects of investigation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/08/2023

(21) Application No.202331057425 A
(43) Publication Date : 13/10/2023

(54) Title of the invention : FORMULATION AND PROCESS FOR PRODUCING NANOPARTICLES WITH REGULATED RELEASE CHARACTERISTICS FOR DRUG DELIVERY PURPOSES

(51) International classification :A61K0009510000, A61K0009500000, A61K0009000000, A61K0009160000, A61K0009200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
FORMULATION AND PROCESS FOR PRODUCING NANOPARTICLES WITH REGULATED RELEASE CHARACTERISTIC FOR DRUG DELIVERY PURPOSES The present invention highlights the significance of nanoparticle-based drug delivery systems and the intricacies involved in formulating and producing nanoparticles with regulated release characteristics. By offering enhanced drug delivery efficiency and reduced adverse effects, such nanoparticles hold great promise for the future of pharmaceutical therapeutics

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/07/2023

(21) Application No.202311048711 A
(43) Publication Date : 11/08/2023

(54) Title of the invention : A METHOD FOR GENOMIC SEQUENCING PANEL FOR TRANSPLANTATION PHARMACOGENOMICS

(51) International classification	:C12N 151000, C12Q 016869, G01N 335000, G16B 200000, G16B 300000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Transplantation pharmacogenomics aims to optimize medication selection and minimize adverse drug reactions in transplant patients through personalized treatment strategies. Genomic sequencing panels play a vital role in identifying genetic variations that impact drug metabolism, transport, and immune response in transplant recipients. This invention presents a comprehensive method for developing such panels, encompassing target gene selection, variant identification through high-throughput sequencing technologies, data analysis and variant calling, variant annotation and interpretation, panel design and validation, clinical implementation, and data management and reporting.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2023

(21) Application No.202341026401 A
(43) Publication Date : 26/05/2023

(54) Title of the invention : Determination of biological activities of leaf extracts of piper Betal Linn

(51) International classification	:A61K 089700, A61K 366700, A61P 011400, A61P 430000, G01N 350000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
This invention belongs to the field of Pharmacy and its utility is to obstacle in agriculture for the plant diseases, which are typically addressed with the help of pesticides. However, the widespread use of pesticides has resulted in a variety of risks to the environment and public health. The more advantageous option is Biological control, a technique that is environmentally benign, especially since that botanicals are showing to be more effective alternatives for managing disease. This protocol a novel botanical for the in-vitro management of some significant plant pathogenic bacteria. Piper betle leaf solvent extracts, including petroleum ether, chloroform, ethyl acetate, and methanol extract, shown inhibitory efficacy against the studied microorganisms in a cup and disc diffusion assay. While the inhibitory zone for the petroleum ether extract ranged from 13 to 19 mm, that of the methanol extract ranged from 27 to 41 mm. Extracts in chloroform and ethyl acetate showed a modest inhibition range of 14–26 mm.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2023

(21) Application No.202331026416 A
(43) Publication Date : 14/04/2023

(54) Title of the invention : Nanofluidic delivery system for targeted drug delivery

(51) International classification :A61K 9/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention relates to a nanofluidic delivery system for targeted drug delivery. The system includes a substrate with a plurality of nanochannels, which are functionalized to selectively transport a drug or biomolecule of interest. The nanochannels have a diameter of less than 100 nanometers and can be made of various materials such as silicon, glass, plastic, or metal. The system can be used in various applications, including ophthalmic drug delivery, oral drug delivery, intravenous drug delivery, implantable biosensors, wound healing dressings, transdermal patches, microfluidic lab-on-a-chip devices, agriculture applications, veterinary medicine, and cosmetics. Additionally, the system can be functionalized with ligands or antibodies to selectively transport specific biomolecules or cell types. The invention also includes methods of using the nanofluidic delivery system, drug delivery devices comprising the system, and diagnostic tools utilizing the system for biomolecule detection. Overall, the nanofluidic delivery system provides a highly selective and precise method for targeted drug delivery and biosensing applications.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/08/2023

(21) Application No.202331056343 A
(43) Publication Date : 27/10/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITION COMPRISING ACETAZOLAMIDE FOR RETINAL PROTECTION AND METHODS THEREOF

(51) International classification :A61P0027060000, A61K0009000000, A61K0047360000, H01J0049040000, G16H0010200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention generally relates to the field of pharmacology and medical biochemistry. Particularly, the present disclosure relates to a matrix film formulation comprising acetazolamide, silicon dioxide, and triethalonamine; and a process of preparing the same. The present disclosure also relates to a method for retino-protection and intraocular pressure management in a subject having glaucoma and a method for managing glaucoma in a subject in need thereof, by administering the subject with the formulation of the present disclosure.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/02/2023

(21) Application No.202321010150 A
(43) Publication Date : 03/03/2023

(54) Title of the invention : ULTRAVIOLET SPECTROPHOTOMETRIC METHOD FOR THE ESTIMATION OF TRIMETHOPRIM IN TABLETS

(51) International classification	:G01N0021330000, G16B0040000000, H04N0019593000, C12Q0001680000, G06F0001260000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Computer implemented method for estimating drug concentration at very low concentration in nanogram level with high confidence interval are needed. The present invention provides system and computer implemented method for estimating trimethoprim using ultraviolet spectrophotometry comprising a computing device for transmitting, receiving or storing absorbance v/s concentration data in to a processor, a user screen interface for information and result displays, the absorbance v/s concentration data are further analyzed and compared with the standards values previously set and predictions based on above data for unknown data (lower concentration in nano gram range) feed are displayed in the user screen interface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2023

(21) Application No.202311026500 A
(43) Publication Date : 19/05/2023

(54) Title of the invention : Chemo Selective Synthesis of 1,2-Disubstituted Benzimidazoles

(51) International classification :A61K 315060, A61P 250600, A61P 252200, C07D 011200, G01N 330000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention belongs to the field of Pharmacy and its utility for a selective dehydrogenative coupling of aromatic diamine with primary alcohols to produce 2- and 1,2-substituted benzimidazoles. A manganese(I) complex formed from a tridentate NNS ligand that is phosphine-free catalyses the process. The catalysis was expanded to include substituted primary alcohols that were aromatic, aliphatic, and heterocyclic as well as phenylenediamines with either electron-donating or -withdrawing substituents. Overall, good to moderate yields of 1,2-disubstituted benzimidazoles were produced, and the only by-products were water and hydrogen.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/12/2022

(21) Application No.202241075667 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : IMPLEMENTATION OF TECHNIQUES TO PREDICT THE INFLUENCE OF CLINICAL PHARMACY SERVICES ENHANCED BY ELECTRONIC HEALTH RECORD (EHR) ACCESS

(51) International classification	:G16H0010600000, G06N0020000000, C12N0015100000, G06K0009620000, G16H0050700000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Implementation of techniques to Predict the Influence of Clinical Pharmacy Services enhanced by Electronic Health Record (EHR) access is the proposed invention. The proposed invention focuses on utilizing the algorithms of machine learning for understanding the clinical pharmacy services. The proposed invention focuses on enhancing the accessibility of electronic health records.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/07/2023

(21) Application No.202341045688 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : SYNERGISTIC GASTRIC FLOATING MATRIX COMPOSITION OF CIPROFLOXACIN

(51) International classification :A61P0031040000, A61K0031496000, A61K0009000000, A61K0008920000, A61K0047020000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention is related to a synergistic composition of fluoroquinolone antibiotics with natural ingredients, which improves the drug therapy by reducing major antibiotic associated resistance. The disclosure also provides novel compositions of ciprofloxacin with natural ingredients to promote therapeutic advantage and reduce side effects. The disclosed formulation were found to be stable and effective throughout the shelf life.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/03/2023

(21) Application No.202341022644 A
(43) Publication Date : 07/04/2023

(54) Title of the invention : Novel process of Antioxidant and Phenolic content property of Lantana Camara

(51) International classification :A01H 050200, A01N 650000, A23K 201050, A61K 368500, C08K 051300
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The industry is increasingly interested in replacing synthetic products with natural ones that have bioactive qualities. The invention relates to analyse the phenolic components and antioxidant properties of Lantana camara phytochemically. For the examination of the phenolic compounds, Folin-Ciocalteu and aluminium chloride techniques were employed to check greater quantities in the extracts of the leaves. By using HPLC-DAD, phenolic chemicals are identified and measured. In comparison to the root extracts, the ethanolic extracts showed more antioxidant activity, recording significant activities in TBARS and FRAP. The potential use of L. camara for the treatment of numerous ailments due to its capacity to act as an antioxidant.

No. of Pages : 9 No. of Claims : 2

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202341016909
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/03/2023
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TITLE OF INVENTION	AUTOLOGOUS PLATELET RICH PLASMA (PRGF) PRESERVES GENOMIC STABILITY OF GINGIVAL FIBROBLASTS AND ALVEOLAR OSTEOBLASTS AFTER LONG-TERM CELL CULTURE
FIELD OF INVENTION	BIOTECHNOLOGY
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APPLICATION NUMBER	202331042894
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	METHOD FOR DETECTING AND PREVENTING ADVERSE DRUG REACTIONS THROUGH PHARMACOGENOMICS TESTING
FIELD OF INVENTION	BIOTECHNOLOGY
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/06/2023

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/04/2023

(21) Application No.202341025241 A
(43) Publication Date : 05/05/2023

(54) Title of the invention : Innovative method based on identification of allopurinol and febuxostat in gouty arthritis

(51) International classification :A61K 314260, A61K 315190, A61P 190200, A61P 190600, C07D 775600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention belongs to the field of Pharmacy and its utility is to formulate Intelligent System to identification of allopurinol and febuxostat in gouty arthritis in people with age more than 45 years. This protocol was used to enrol patients with gout and cardiovascular disease in a multicenter, double-blind, noninferiority trial; patients were classified according to renal function and randomly assigned to receive febuxostat or allopurinol. Regarding incidence of adverse cardiovascular events in patients with substantial concurrent cardiovascular illnesses and gout, febuxostat was noninferior to allopurinol. Cardiovascular disease and all-cause mortality were higher with febuxostat than with allopurinol.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/07/2023

(21) Application No.202341045286 A

(43) Publication Date : 01/09/2023

(54) Title of the invention : NATURAL POLYHERBAL COMPOSITION FOR TREATING ALCOHOLIC LIVER CIRRHOSIS

(51) International classification	:A61K0036790000, A61K0036800000, A61K0036288000, A61K0036570000, A61K0036190000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses a composition for supporting liver health and potentially managing alcoholic liver cirrhosis. The composition comprises specific herbal ingredients known for their hepatoprotective and liver-regenerating properties. The formulation includes 30% Milk Thistle (Silybum marianum), 20% Dandelion (Taraxacum officinale), 15% Licorice (Glycyrrhiza glabra), 15% Schisandra (Schisandra chinensis), 10% Andrographis (Andrographis paniculata), and 10% Picrorhiza (Picrorhiza kurroa). These herbal ingredients have been selected based on their traditional use and scientific evidence supporting their efficacy in promoting liver health and potentially managing alcoholic liver cirrhosis. The composition is prepared through a meticulous process involving harvesting, cleaning, drying, grinding, mixing, and quality control testing. The resulting composition offers a synergistic blend of bioactive compounds that exhibit hepatoprotective, anti-inflammatory, and liver-regenerating properties.

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

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

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Application Details	
APPLICATION NUMBER	202341011801
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/02/2023
APPLICANT NAME	1 . Mr Darla Raju 2 . Dr. D.Prasanth 3 . Ms. Rachamsetty kavya 4 . Ms. Meena bandiya 5 . Ms. Neha Sharma 6 . Mr. Rohit Malik 7 . Ms. Shalini Kesharwani 8 . Dr. Avneet Gupta 9 . Dr. Sandeep Gupta 10 . Dr. Akshit Naveria 11 . Mr. Pavan Kumar Krosuri 12 . Mr. Alok Semwal
TITLE OF INVENTION	PREPARING A DRUG FOR TREATING OBESITY AND COSMETICALLY TREATING OVERWEIGHT USING AQUAGLYCEROPORINS
FIELD OF INVENTION	CHEMICAL
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/03/2023

(21) Application No.202321020085 A

(43) Publication Date : 14/04/2023

(54) Title of the invention : THE FORMULATION, DEVELOPMENT, AND CHARACTERIZATION OF OSMOTIC TABLETS CONTAINING ACYCLOVIR

(51) International classification :A61K 090000, A61K 092000, A61K 315220, A61P 053800, B01D 610000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
THE FORMULATION, DEVELOPMENT, AND CHARACTERIZATION OF OSMOTIC TABLETS CONTAINING ACYCLOVIR In a pharmaceutical service suitable for topical use, to herpes virus-inflamed cutaneous or mucosal tissues of the herpes virus-infected animal. The sustained launch method is an osmotic managed pill comprising treprostinil or a salt thereof in a quantity of 1.0 to 5.0 mg primarily based on the weight of treprostinil. A solid center comprising a pharmaceutically active agent that has solubility obstacles because of inherent hydrophobicity or high drug load. A semipermeable membrane disposed over the middle, the semipermeable membrane comprising pores and comprising a film-forming material, and a pore-forming agent forming the pores of the semipermeable membrane. The osmotic agent pills are located inside hostile quit areas of the cylindrical reservoir and the drug pills are located within a middle region inside the cylindrical reservoir among osmotic agent drugs. A middle comprising an osmotic agent and a drug inside the shape of a spray-dried strong dispersion of the stated drug in a dispersion polymer decided on from hydroxy propyl methyl cellulose.

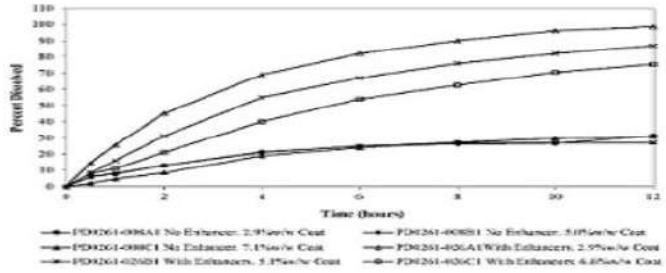

FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/01/2023

(21) Application No.202341000508 A
(43) Publication Date : 06/01/2023

(54) Title of the invention : A SYSTEM FOR EARLY-STAGE DISEASE DETECTION AND HIGH-RISK PATIENT IDENTIFICATION AND WORKING METHOD THEREOF

(51) International classification :G16H0010600000, G16H0040670000, A61B0005000000, G16H0010650000, G06F0021310000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses a system for early-stage disease detection and high-risk patient identification and working method thereof. In the present invention, a Unique Patient Identification module reliably and securely captures, stores, and disseminates a patient's essential medical and bioinformatics data to the appropriate parties; and a secure login portal that necessitates the input of personal information before granting access to a medical file of a patient; this portal must also include an emergency access code that grants only read-only access to the medical data of the patient in the event of an emergency. Further, a sensing and/or tracking mechanism allows for patient monitoring, location tracking, and rescue via alert triggers and database(s) having multiple patient files, each of which is associated with a patient and contains patient information, the patient information defining a medical history of the patient, the patient information contained in multiple fields within each patient file. Accompanied Drawing [FIGS. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2023

(21) Application No.202341027127 A
(43) Publication Date : 05/05/2023

(54) Title of the invention : Novel mechanism and various clotting factors to identify functioning of blood circulation

(51) International classification	:A61K 380000, A61P 070400, A61P 090000, C12N 096400, C12Q 016886
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Although the coagulation cascade's reactions are well understood and no new crucial elements of this system have been found during the past fifteen years, our current knowledge of how this system functions is limited. It is incredibly challenging to draw a connection between the functions of individual reactions and the functioning of the clotting system in vivo as a whole due to the immense biochemical complexity of coagulation, which is further confounded by protein diffusion and blood flow. Blood coagulation is a complicated network of biochemical processes that must work in the context of fast flow and is distinctive in that it is time- and space-dependent. Recent experimental results lead us to believe that flow regulates it significantly. The goal of this study was to analyse this control using systems biology methodologies and to pinpoint the mechanisms causing a flow-dependent transition in the initiation of coagulation.

No. of Pages : 9 No. of Claims : 2

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

DR. M.SRI RAMACHANDRA; MR.SIDHARTHA PARIDA; PROF. (DR.) ARNABADITYA MOHANTY; MR.PRAGATI RANJAN SATPATHY; DR.MIHIR KUMAR KAR; DR.SHAKTIPRASAD PRADHAN; DR.KANCHANA N.DUSSA; DR.PRITHWIRAJ MOHAPATRA; MR.SUHAS SURESH AGEY; DR.GOJE ARJUN

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2023/02441

A copy of the complete specification is annexed, together with the relevant Form P2.

testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **28th** day of **June 2023**

.....

Registrar of Patents

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202331034129 A
(19) INDIA
(22) Date of filing of Application :15/05/2023
(43) Publication Date : 19/05/2023

(54) Title of the invention : THE DEVELOPMENT, VALIDATION, AND ESTIMATION OF A NOVEL RP-HPLC METHOD FOR GLICLAZIDE IN BULK AND TABLET DOSAGE FORM

(51) International classification :A61K 9/20
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
THE DEVELOPMENT, VALIDATION, AND ESTIMATION OF A NOVEL RP-HPLC METHOD FOR GLICLAZIDE IN BULK AND TABLET DOSAGE FORM ABSTRACT An innovative Ultra-performance liquid chromatography column from a commercial HPLC system was employed to develop and validate a new sensitive and economical analytical method for Gliclazide analysis in tablet dosage form. The RP-HPLC method has been established to estimate Gliclazide (GLC) in tablet pharmaceutical dosage form using a 100; C18 (250 x 4 mm, 5 m) column with a mobile phase made up of Methanol and water in a 50:50 v/v ratio. The flow rate was 1.0 ml/min and detection was carried out by UV-PDA detector at 272nm. The retention time for GLC was found to be 3.183 min. The accuracy of GLC was determined to be between 98.92 and 99.23%, with a linearity range of 01-300 g/ml and correlation co-efficient 0.999 respectively. The developed technique was found to be simple, more precise, as well as accurate for estimating GLC in tablet formulations.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/05/2023

(21) Application No.202311036013 A
(43) Publication Date : 30/06/2023

(54) Title of the invention : INNOVATIVE AND ALTERNATIVE OCULAR DRUG DELIVERY SYSTEM FOR INCREASED EFFICIENCY

(51) International classification	:A61F 090000, A61K 090000, A61P 270200, C08K 030400, G06F 074910
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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3)Mr. Deepak Shrivastava
4)Ms. Swagatika Das
5)Dr Yella Sirisha
6)Dr Mohd Abdul Hadi
7)Prof Chatlapelli kishore
8)Mr. Satyabrata Jena
9)Dr P Sobitha Rani
10)Dr Vikash Kumar Mishra
11)Mr. Rakesh Swain
12)Dr Vankam Lokeswara Babu
Name of Applicant : NA
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(72)**Name of Inventor :**
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(57) Abstract :
ABSTRACT The invention relates to the field of Pharmacy and application of this invention is to implement Innovative and alternative Ocular drug delivery system for increased efficiency. Because of its anatomy and physiology, the eye is a well-protected organ. It has been regarded as a challenging undertaking to develop an effective treatment for ocular illnesses, particularly those affecting the posterior segment. Scientists have been challenged to identify other modes of administration, such as periocular channels, due to the limitations of topical and intravitreal methods. Due to its potential to get around several difficulties with existing therapy, transporter focused drug delivery has attracted a lot of attention in the field.

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

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Application Details	
APPLICATION NUMBER	202331055325
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/08/2023
APPLICANT NAME	1 . Dr. Eggadi Ramesh 2 . Dr. Vangapandu Thriveni 3 . Dr. Motapalukula Jyothi 4 . Mr. Jonnalagadda Anil Kumar 5 . Ms. Korani Rajeshwari 6 . Dr. Siddareddy Eswara Reddy
TITLE OF INVENTION	PEDAL OPERATED COCONUT DEHUSKER
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/10/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202331010527
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2023
APPLICANT NAME	**Centurion University of Technology & Management (CUTM)**
TITLE OF INVENTION	A Liquid Bio Fertilizer with Anti-bacterial Properties for Enhancing Soil Fertility and Method Thereof
FIELD OF INVENTION	BIOTECHNOLOGY
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2023
PUBLICATION DATE (U/S 11A)	10/03/2023

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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202341016195
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/03/2023
APPLICANT NAME	1 . K. Venkatagurunatham Naidu 2 . Dr. Suma T 3 . Ms. Saniya Bhalerao 4 . Atharva Ganesh Sanas 5 . Pranav Paranjpe 6 . Dr. Sonia. H. Bajaj 7 . Dr. R Hema 8 . Asha Susan John 9 . Dr. Mohammed Siddique 10 . Dr Ashok Kumar Koshariya
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED AUTOMATIC SYSTEM FOR DETECTION AND PREVENTION OF UNHEALTHY REGION OF PLANT LEAVES USING IMAGE PROCESSING AND GENETIC ALGORITHMS FOR HIGH YIELDS IN SMART FARMING
FIELD OF INVENTION	COMPUTER SCIENCE
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Application Details	
APPLICATION NUMBER	202331025057
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/04/2023
APPLICANT NAME	1 . Mrs. Swarna Prabha Jena 2 . Dr. Subhra Debdas 3 . Dr. Banishree Misra 4 . Dr. Srikanta Mohapatra 5 . Mr. Sayan Hazra 6 . Mr. Saptak Das 7 . Mr. Shubhadip Modak 8 . Ms. Shivangi Chatterjee 9 . Mr. Soumyadeep Banerjee 10 . Mr. Mayukh Patra
TITLE OF INVENTION	A METHOD AND SYSTEM TO ANALYSIS THE TUMOR RECOGNITION BASED ON IOT AND AI IMAGE PROCESSING
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/04/2023

Application Status

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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202331029392
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/04/2023
APPLICANT NAME	**1 . Ms. Swarna Prabha Jena** **2 . Dr. Sujata Chakravarty** **3 . Mr. Mangaldeep Chakraborty** **4 . Mr. Asit Ghosh** **5 . Mr. Aditya Raj**
TITLE OF INVENTION	ML AND IOT-BASED PROBABILISTIC METHOD IN APPLIED MATHEMATICS FOR AGRICULTURAL TRACKING FARMING SYSTEMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	subramaniannagu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/04/2023

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202341016847
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/03/2023
APPLICANT NAME	1 . Dr. Pati Sirisha 2 . Dr. Manuri Brahmayya 3 . Dr. Gopal Krishna Padhy 4 . Dr. Nellore Manoj Kumar 5 . Dr. G. Vijayakumar
TITLE OF INVENTION	A method and system for efficient removal of toxic metals using functionalized adsorbents
FIELD OF INVENTION	CHEMICAL
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/03/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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Application Details	
APPLICATION NUMBER	202341069358
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/10/2023
APPLICANT NAME	1 . Dr. M. Durga Bhavani 2 . Dr. Nellore Manoj Kumar 3 . Dr. Ashwin Jacob 4 . Dr. Gopal Krishna Padhy 5 . Dr. K. Venkatesan 6 . Dr. C. Yogambal 7 . Dr. M. Manickam 8 . Ms. Vaishnavi Raja 9 . Dr. Rajeev Ranjan
TITLE OF INVENTION	RECYCLABLE AND BIO-DERIVED ANODE MATERIALS FOR LITHIUM-ION ELECTRIC VEHICLE BATTERIES
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	03mrmanoj@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/11/2023

Application Status

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Application Details	
APPLICATION NUMBER	202321015105
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/03/2023
APPLICANT NAME	1 . Dr. Shailendra Kumar Mittal 2 . Dr. Chandan Kumar Sahoo 3 . Dr. Kavita B. Bajpai 4 . Dr. Nellore Manoj Kumar 5 . Dr. Vijesh V V 6 . Ms. Niti Mittal 7 . Dr. Tirumalaraju Vidya Sagar 8 . Dr. Banitamani Mallik 9 . Dr. Palle Kiran 10 . Dr. Manjula S.H.
TITLE OF INVENTION	A SYSTEM AND METHOD FOR SOLVING ORDINARY DIFFERENTIAL EQUATION USING AI & ML INTERFACES
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/03/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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Government of India

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Application Details	
APPLICATION NUMBER	202341022909
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/03/2023
APPLICANT NAME	1 . Dr. M. V. D. N. S. Madhavi 2 . Dr. D. Rajani 3 . Dr. Vijesh V V 4 . Mr. Charanjit Singh 5 . Ms. Uttara Vijaykumar Deshmukh 6 . Dr. Udaya Kumara K N 7 . Mr. T.R.K.D.Vara Prasad 8 . Dr. Banitamani Malik 9 . Dr. K.S. Srinivasa Babu
TITLE OF INVENTION	An Analytical approach for solving Fractional Differential Equations with Non-Homogeneous Boundary value issues
FIELD OF INVENTION	COMPUTER SCIENCE
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/05/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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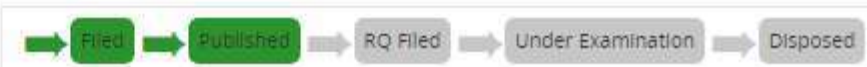

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Application Details	
APPLICATION NUMBER	202341069381
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/10/2023
APPLICANT NAME	1 . Dr. K. Jayalakshmi 2 . Dr. Banitamani Mallik 3 . Dr. M. Mary Jansi Rani 4 . Dr. K. Anuradha 5 . Dr. S. Vasantha Gowri 6 . Dr. K. Abdul Razak 7 . Mr. S. Manikandan 8 . Mr. P. Raghavendran 9 . Dr. V. S. Bhagavan 10 . Dr. T. Gunasekar
TITLE OF INVENTION	A STATISTICAL METHOD FOR PARKINSON'S DISEASE PROGNOSIS USING CLINICAL DATA
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/11/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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(19) INDIA
(22) Date of filing of Application :07/06/2023

(21) Application No.202331038922 A
(43) Publication Date : 09/06/2023

(54) Title of the invention : HYBRID DENSENET201+ELM ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) MODEL-DRIVEN SOLUTIONS FOR PREDICTING CROP YIELD AND OPTIMIZING RESOURCE MANAGEMENT IN AGRICULTURE

(51) International classification :G06F30/27
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant : NA
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(57) Abstract :
Agriculture is a critical sector in the economy of most countries worldwide. However, despite the advances made in technology, the industry still faces challenges such as unpredictable weather patterns, pest infestations, and poor soil fertility. Agriculture is also the backbone of the economy in many countries. It is crucial to feed the ever-increasing global population. However, farmers face several challenges such as unpredictable weather, pest and disease outbreaks, soil degradation, and market volatility. To overcome these challenges, farmers need to adopt new technologies that can help them make informed decisions. Artificial Intelligence (AI) and Machine Learning (ML) models have the potential to revolutionize the agriculture industry. AI and ML models can be used to analyze data and provide valuable insights that can help farmers make better decisions. This project proposes to develop a hybrid DenseNet201+ELM(Extreme Learning Machine) AI model-driven solutions that can enhance productivity and sustainability in agriculture. Deep learning has the potential to revolutionize agriculture by providing intelligent, data-driven solutions to these challenges.

No. of Pages : 19 No. of Claims : 6

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Application Details	
APPLICATION NUMBER	202231076355
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/12/2022
APPLICANT NAME	**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**
TITLE OF INVENTION	DESIGN OF LOW POWER AND ENHANCE SPEED MULTIPLIER, ACCUMULATOR WITH SPST ADDER IN VERILOG
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	subramaniannagu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/03/2023

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202341020626
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/03/2023
APPLICANT NAME	1 . Dr. Madhura. K 2 . Mr. Enjula Uchoi 3 . Dr. A. Yashudas 4 . Dr. R. Sangeetha 5 . Dr. V. Kannan 6 . Dr. Hardik Pathak 7 . Dr. Sasmita Kumari Nayak 8 . Dr. Vineetha. KR 9 . Prof. Ts. Dr. Yousef Abubaker El-Ebiary 10 . Mr. C. M. Naveen Kumar 11 . Dr. G. Shivakumar 12 . Dr. Sanjeeb Mallick 13 . Mr. J. Logeshwaran
TITLE OF INVENTION	CLASSIFICATION OF MENTAL STRESS AND PSYCHOLOGICAL DISORDER FROM ELECTROCARDIOGRAM SIGNALS USING MACHINE LEARNING APPROACH
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	arinnapatent@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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(19) INDIA
(22) Date of filing of Application :30/03/2023

(21) Application No.202341023742 A
(43) Publication Date : 21/04/2023

(54) Title of the invention : HYDRAULIC BASED LEVEL MAINTENANCE MECHANISM FOR SAILING VESSELS

(51) International classification :A61P 430000, B41J 021650, B63B 150000, G06Q 100000, G06Q 100800
(86) International Application No :NA
Filing Date :NA
(87) 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)CH. LAKSHMI POORNIMA
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5)Mr. A. JOSEPH AROCKIAM
6)Mr. R. G. PADMANABHAN
7)Mr. SARATHI R
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Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
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(57) Abstract :
The system relates to a hydraulic-based level maintenance mechanism for sailing vessels. The mechanism is designed to maintain the stability and balance of sailing vessels during navigation. The mechanism employs hydraulic pressure to adjust the water level in the vessel, thereby ensuring the stability of the vessel. This invention provides an efficient, reliable, and easy-to-use solution for maintaining the level of sailing vessels. The hydraulic-based mechanism provides a more reliable and efficient solution for maintaining the level of sailing vessels compared to traditional ballast systems. The level maintenance mechanism that is easy to use and operate. The hydraulic-based mechanism is designed to be user-friendly and requires minimal training to operate. The mechanism can be controlled using a simple control panel, allowing the crew to adjust the water level in the vessel quickly and easily. It also aims to provide a level maintenance mechanism that is more environmentally friendly compared to traditional ballast systems. The hydraulic-based mechanism does not require the use of large amounts of water or other ballast materials, which can have negative enviromnental impacts. The mechanism is also designed to be energy-efficient, reducing the overall energy consumption of the vessel.

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202321035203
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2023
APPLICANT NAME	1 . Dr. Rohit Pandey 2 . Dr. J. Sadhik Basha 3 . Mr Harish M 4 . Dr. Akash Doomra 5 . Dr. M. Raja Gopal 6 . Mr. Manas Ranjan Padhi 7 . Dr. Vinayaka N 8 . Prof. Amruta Jagdish Killol 9 . Dr Rajesh M 10 . Dr. M. Srinivasnaik
TITLE OF INVENTION	AERODYNAMICALLY OPTIMIZED HYDRO POWER AXIAL TURBINE CASCADE FOR LOW VELOCITY WATER FLOW
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vaagaiip@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/06/2023

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2023

(21) Application No.202331025612 A
(43) Publication Date : 14/04/2023

(54) Title of the invention : AN AI AND ML BASED ROBOTICS FOR REMOTE AGRICULTURAL OPERATIONS AND MONITORING

(51) International classification :G06Q 50/02
(86) International Application No :NA
Filing Date :NA
(87) 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)Ms. Camellia Ray
4)Dr. Sambit Bakshi
5)Dr. Nimay Chandra Giri
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Address of Applicant : NA
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(57) Abstract :
The growing population and effect of climate change have put a huge responsibility on the agriculture sector to increase food-grain production and productivity. In most of the countries where the expansion of cropland is merely impossible, agriculture automation has become the only option and is the need of the hour. Internet of things and Artificial intelligence have already started capitalizing across all the industries including agriculture. Advancement in these digital technologies has made revolutionary changes in agriculture by providing smart systems that can monitor, control, and visualize various farm operations in real-time and with comparable intelligence of human experts. The potential applications of IoT and AI in the development of smart farm machinery, irrigation systems, weed and pest control, fertilizer application, greenhouse cultivation, storage structures, drones for plant protection, crop health monitoring, etc. are discussed in the work.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/05/2023

(21) Application No.202331037113 A
(43) Publication Date : 02/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE TO ANALYSES THE EFFICIENCY OF PHOTOSYNTHESIS OF PLANTS ON THE AGRICULTURE

(51) International classification :A01K63/04
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A number of recent studies have provided strong support demonstrating that improving the photosynthetic processes through genetic engineering can provide an avenue to improve yield potential. The major focus of this review is on improvement of the Calvin–Benson cycle and electron transport. Consideration is also given to how altering regulatory process may provide an additional route to increase photosynthetic efficiency. Here we summarize some of the recent successes that have been observed through genetic manipulation of photosynthesis, showing that, in both the glasshouse and the field, yield can be increased by >40%. These results provide a clear demonstration of the potential for increasing yield through improvements in photosynthesis. In the final section, we consider the need to stack improvement in photosynthetic traits with traits that target the yield gap in order to provide robust germplasm for different crops across the globe.

No. of Pages : 14 No. of Claims : 8

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202341048541
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/07/2023
APPLICANT NAME	Mohan Babu University (Erstwhile Sree Vidyanikethan Engineering College)
TITLE OF INVENTION	A Four Port Wideband MIMO Antenna for 5G Millimeter-Wave Applications
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	drkkbaseer@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/12/2022

(21) Application No.202231074745 A
(43) Publication Date : 24/02/2023

(54) Title of the invention : IOT BASED SMART IRRIGATION SYSTEM FOR CROP PRODUCTION AND SOIL MANAGEMENT USING ARTIFICIAL INTELLIGENCE

(51) International classification :A01G0025160000, A01G0017000000, G06Q0050020000, A01G0025090000, A01G0025020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The application of the technology needs to be employed to the all phase of agriculture. It needs to be precision agriculture rather than traditional as optimization of the resources give the benefit to the farmers and ultimately affect to the GDP of the country positively. The crop production must be increase as the demand is high and production is low. Here, in this paper, the model and framework are proposed for the irrigation system. The objective is to save the water and supply it to the crop only when it is actually required. The Internet of Things (Iot) with the artificial intelligence technologies are adopted to control the irrigation system using smart phone. The moisture level of soil is detected and stored using various sensors which are spread over the farm. The aim is to automate the irrigation system for the crop

No. of Pages : 19 No. of Claims : 6

Centurion
UNIVERSITY

2024 Patent Details

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Corporate Office: At - HIG - 4, Jaydev Vihar, Opp. Pal Heights, Bhubaneswar - 751013, Dist: Khurda, Odisha, India. **Website:** www.cutm.ac.in

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रम सं/SL No :033135753

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	537208
आवेदन सं. / Application No.	:	202231056038
फाइल करने की तारीख / Date of Filing	:	29/09/2022
पेटेंटी / Patentee	:	Centurion University of Technology & Management (CUTM)
आविष्कारकों का नाम /Name of Inventor(s)	:	1.Chinmaya Chidananda Behera 2.Dr. Bhisma Narayan Ratha 3.Dr. Sagar Kumar Mishra

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *3-(5-Hexyl-2-Methylphenyl) Propanoic Acid for Treatment of Severe Acute Respiratory Syndrome (SARS) Coronavirus 2* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2022 के उन्नतीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *3-(5-Hexyl-2-Methylphenyl) Propanoic Acid for Treatment of Severe Acute Respiratory Syndrome (SARS) Coronavirus 2* as disclosed in the above mentioned application for the term of 20 years from the 29th day of September 2022 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख :
Date of Grant : 08/05/2024

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2024 के उन्नतीसवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 29th day of September 2024 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/05/2024

(21) Application No.202431039879 A
(43) Publication Date : 31/05/2024

(54) Title of the invention : A HYBRID SOLAR DRYER FOR DRYING VEGETABLES AND FOOD PRODUCTS

(51) International classification :H02S0040440000, F24S0010500000, F24S0010400000, F24S0080600000, F24S0010750000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention relates to a hybrid solar dryer (100) integrated with a fin-type flat plate solar collector (101). It is designed for efficient and hygienic drying of vegetables and food products, such as tomatoes, potatoes, bitter gourd, and green bananas, during both day and night. The solar collector (101) includes a corrugated aluminum absorbing plate (115) coated with black paint and fitted with 60 rectangular fins (109) to maximize heat transfer. Two transparent glass plates (110) enhance solar radiation transmissivity, while an insulating layer (112) minimizes heat loss. The drying chamber (102) contains multiple wire mesh trays and a desiccant system using silica gel to reduce humidity. An auxiliary electrical system with a solar photovoltaic panel (103), lead-acid battery (113), MPPT charge controller (114), and DC blowers (108) ensures continuous drying. The hybrid solar dryer (100) is lightweight, portable, and suitable for large-scale industrial applications due to its high efficiency, energy-saving design, and cost-effectiveness.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/06/2024
(21) Application No.202431043846 A
(43) Publication Date : 14/06/2024

(54) Title of the invention : A POWER PAVER BLOCK FOR ENHANCED ENERGY HARVESTING AND SMART CITY INTEGRATION

(51) International classification :H02N2/18, H10N30/30
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a sustainable energy harvesting system comprising modular Power Paver Blocks designed to convert mechanical energy from pedestrian traffic into electrical energy using the piezoelectric effect. Each Power Paver Block integrates a piezoelectric material layer, electrodes, a substrate layer, and an energy management unit to efficiently capture and convert mechanical stress into electrical power. The blocks are interlocking and modular, facilitating easy installation and scalability in urban settings. Additionally, the blocks incorporate sensors and wireless communication modules for smart city integration, enabling real-time data collection on foot traffic and environmental conditions. This innovative system addresses the durability and efficiency limitations of prior piezoelectric technologies, providing a robust, aesthetically versatile solution for urban energy generation and contributing to the development of energy-positive smart cities. The blocks are constructed from eco-friendly materials, promoting sustainable urban infrastructure.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/05/2024

(21) Application No.202431039879 A
(43) Publication Date : 31/05/2024

(54) Title of the invention : A HYBRID SOLAR DRYER FOR DRYING VEGETABLES AND FOOD PRODUCTS

(51) International classification :H02S0040440000, F24S0010500000, F24S0010400000, F24S0080600000, F24S0010750000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
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2)MOHANTY, RAMESH CHANDRA
Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ---------- ----------
3)DAS, SHIV SANKAR
Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ---------- ----------
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6)PADHI, MANAS RANJAN
Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ---------- ----------

(57) Abstract :
The invention relates to a hybrid solar dryer (100) integrated with a fin-type flat plate solar collector (101). It is designed for efficient and hygienic drying of vegetables and food products, such as tomatoes, potatoes, bitter gourd, and green bananas, during both day and night. The solar collector (101) includes a corrugated aluminum absorbing plate (115) coated with black paint and fitted with 60 rectangular fins (109) to maximize heat transfer. Two transparent glass plates (110) enhance solar radiation transmissivity, while an insulating layer (112) minimizes heat loss. The drying chamber (102) contains multiple wire mesh trays and a desiccant system using silica gel to reduce humidity. An auxiliary electrical system with a solar photovoltaic panel (103), lead-acid battery (113), MPPT charge controller (114), and DC blowers (108) ensures continuous drying. The hybrid solar dryer (100) is lightweight, portable, and suitable for large-scale industrial applications due to its high efficiency, energy-saving design, and cost-effectiveness.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2024

(21) Application No.202431017515 A
(43) Publication Date : 22/03/2024

(54) Title of the invention : A Handheld Low-Cost Insulin Pumping Device

(51) International classification	:H04W0004800000, A61M0005142000, A61M0005172000, A61B0005000000, G16H0020170000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention describes a handheld low-cost insulin pumping device (100), comprising a microcontroller (101), lead screw (102) supported by screw bearings (103) and driven by stepper motor (108), braking mechanism (104), insulin cartridge (109), encoder (107) for motor feedback, TFT display (110), button panel (111), and battery (105). The microcontroller (101) facilitates dosage calculation and signal transmission to the stepper motor (108) via the encoder (107), ensuring accurate insulin delivery. Operationally, the stepper motor (108) rotates the lead screw (102) to administer insulin from the cartridge (109), with the braking mechanism (104) ensuring dosage precision. User interaction is facilitated by the TFT display (110) and button panel (111). Furthermore, the device is equipped with wireless connectivity capabilities, utilizing standard protocols such as Bluetooth Low Energy (BLE) or Wi-Fi, enabling remote monitoring of insulin delivery data and receipt of alerts or notifications on external devices.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/01/2024

(21) Application No.202431004213 A

(43) Publication Date : 29/03/2024

(54) Title of the invention : INTERNET OF THINGS AND BLOCKCHAIN REVOLUTIONARY INTEGRATION IN BUSINESS AND FINANCIAL SECTOR

(51) International classification :G06Q0040020000, G06Q0010080000, G06K0019070000, H04L0009320000, H04L0009060000

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Filing Date :NA

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(57) Abstract :
INTERNET OF THINGS AND BLOCKCHAIN REVOLUTIONARY INTEGRATION IN BUSINESS AND FINANCIAL SECTOR ABSTRACT On account of the numerous applications that have been developed for the Internet of Things, people's lifestyles are undergoing changes as a result of these applications. The Internet of Things (IoT) finance refers to the various applications of the Internet of Things that have the potential to extend financial services throughout the entirety of the IoT commodities transaction, subvert traditional finance and Internet finance services, and make the financial business processes more intelligent, transparent, and accurate. These applications are referred to as "IoT finance." The purpose of this invention is to discuss the design and execution of a platform for financial management that is based on the combination of blockchain technology and supply chain logistics. The integration of supply chain finance is accomplished by the utilisation of blockchain technology in order to synchronise the system of bank account payments, accomplish the automatic flow of funds, process oversight, and automatically settle account periods based on smart contracts. Therefore, the purpose of this invention paper is to analyse the role that blockchain technology plays within the context of the Internet of Things (IoT) and with regard to financial applications. In terms of potential benefits, these two areas stand to gain the most from its implementation. As an additional point of interest, this invention explores the concerns surrounding privacy and security that are related with it and provides some ideas regarding how these issues can be solved. In the final stage of this process, the public perception of blockchain technology tackles the varied perspectives that different segments of society have on blockchain technology.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2024
(21) Application No.202421029426 A
(43) Publication Date : 03/05/2024

(54) Title of the invention : EXPLORING THE POTENTIAL OF DEEP NEURAL NETWORKS IN ESTIMATING SURFACE TEMPERATURE OF LITHIUM-ION BATTERIES DURING DRIVING AND FAST CHARGE CONDITIONS.

(51) International classification :G06N0003040000, G06N0003080000, G01R0031392000, H01M0010052500, G06Q0010040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
This article introduces two deep neural network (DNN) models for predicting lithium-ion battery (LIB) surface temperatures. The first model, a feedforward neural network (FNN) with external filters, and the second model, a recurrent neural network (RNN) with long short-term memory (LSTM), are developed and tested using experimental data from cylindrical and pouch cell batteries under various conditions. The models achieve less than 2°C root-mean-square error (RMSE) for challenging low ambient temperature cycles and 0.3°C for 4C rate fast charging. Notably, the FNN outperforms LSTM in terms of speed 0.8 vs 2.5 ms and memory usage 0.4 kB vs. 1 kB with approximately 3000 learnable parameters. Additionally, a model trained on new batteries demonstrates a low error (0.8°C) when tested on aged cells, highlighting its robustness across battery health conditions.

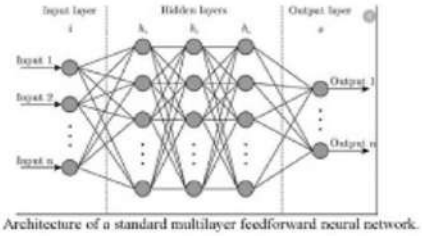

Fig-1 Architecture of a standard multilayer feedforward neural network.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/01/2024

(21) Application No.202411000075 A
(43) Publication Date : 02/02/2024

(54) Title of the invention : NANOFERTILIZERS A FUTURISTIC TECHNOLOGY OF NUTRIENT MANAGEMENT IN AGRICULTURE

(51) International classification :C05C9/00, C05D9/02, C05G1/00, C05G3/00, C05G3/80, C05G3/90, C05G5/23
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
An experiment was conducted to assess the effect of foliar application of nano urea on productivity and profitability of fine rice under irrigated subtropics of Jammu region. The experimental results revealed that 100% recommended NPKZn +2 foliar sprays of nano urea each @ 2ml/liter of water recorded significantly higher effective tillers m number of grains panicle , 1000-grain weight, grain yield and straw yield -2,-1 and remained statistically at par with treatment 75% recommended N+ recommended PK Zn + 2 foliar sprays of nano urea each @ 2ml/liter of water, 50% recommended N+ recommended PKZn (25:25:15 kg ha) + 2 foliar sprays of nano urea each @2ml/liter of water), 50% -1-1recommended N+ recommended PKZn (25:25:15 kg ha) + foliar sprays of nano urea @4 ml/liter of water) and 100% recommended NPKZn. However with regard to net returns and B: C ratio, 75% recommended N+ recommended PKZn + 2 Foliar Sprays of nano urea each @ 2ml/liter of water recorded highest net returns and B:C ratio to the tune of 79305 ha and 1.70 respectively which was closely followed by 50% -1-1-1recommended N+ recommended PKZn (25:25:15 kg ha) + 2 foliar sprays of nano urea each @ 2ml/liter of water with net returns and B:C ratio to the tune of 78,724 ha and 1.69 respectively.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/01/2024

(21) Application No.202411000076 A
(43) Publication Date : 02/02/2024

(54) Title of the invention : SMART FARMING MACHINE WITH WATERING AND FERTILIZATION UNIT

(51) International classification :G06Q0050020000, A01G0022000000, A01G0025160000, C05C0003000000, C05F0011080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
As serious food insecurity persists in many parts of the world, improving productivity in agriculture in a sustainable manner is today a realistic target. Farming plays an important role in food production and economic development in Nigeria and the world as a whole. Getting high yield from farm produce depend on land fertility, soil moisture and other climatic factors. This paper aims at developing an automatic fertilized-irrigation control and management system for the improvement of soil porosity and nutrient by timely application of fertilizer and water level required for the crops growth and development. This will metabolize the soil texture, give the nutrient to the crops, build plant tissue as well as increase the rate of crop productivity. The implementation of the system has been achieved by interfacing several components and intelligence unit such as ISE sensors, DHT11 sensor, Actuator, AT89C52 microcontroller and other components to automatically apply soluble agrochemical fertilizer and water based on plant needs. The designed system is tested with tomato crop planted on sandy, loamy and clay soil, respectively. The obtained result shows that the developed system applied higher water of about 391 mm3 on the tomato crop planted on sandy soil compared with the other soil types which was 383 and 380 mm3 on loam and clay soil, respectively at the moisture content of 16%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2024

(21) Application No.202431029561 A
(43) Publication Date : 26/04/2024

(54) Title of the invention : OPTIMIZING LAND USE: AGRIVOLTAIC SYSTEMS FOR ENHANCED PRODUCTIVITY AND PROFITABILITY

(51) International classification	:G06Q0010060000, A61K0036906600, H02J0003380000, C10L0001020000, C12P0019040000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The combination of energy and food security is increasingly threatened by the impacts of climate change, population growth, and global economic expansion. In response to these challenges, the agrivoltaic system emerges as a promising solution, blending photovoltaic technology with agricultural production to support sustainable development goals, particularly in countries like India. An experimental study conducted at CUTM, Odisha, utilized a portable and adjustable agrivoltaic system with a capacity of 0.675 kWp over an 11 m2 area. The aim was to assess its impact on land productivity and the income of farmers or investors. This innovative system facilitated the cultivation of 1.5 kg of turmeric, a shade-tolerant medicinal crop, while also reducing temperatures by 1–1.5 °C, thereby enhancing energy generation efficiency. Key performance metrics, including the land equivalent ratio, benefit-cost ratio, price-performance ratio, and payback period, were determined as 1.73, 1.71, 0.79, and 9.49 years, respectively. The successful integration of this system with a dual DC microgrid, supported by solar tubular batteries, underscores its scalability and potential for wider adoption among farmers, who are the primary beneficiaries of this innovative approach.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/08/2024

(21) Application No.202431062770 A
(43) Publication Date : 23/08/2024

(54) Title of the invention : Interactive Language Learning System for English Literature Enthusiasts

(51) International classification :G09B0019060000, G06Q0050200000, G09B0005060000, G09B0007000000, G09B0007020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The proposed invention is an interactive language learning system designed to enhance the study of English literature through the integration of artificial intelligence and multimedia tools. It provides personalized learning experiences by adapting to the user's pace and style, utilizing virtual and augmented reality to immerse learners in the literary settings and contexts. The system features interactive discussions with literary characters and authors, collaborative learning environments, and analytical tools for educators to monitor progress. Aimed at students, educators, and literature enthusiasts, this system democratizes and enriches the literary learning experience by making complex texts accessible and engaging through innovative technological applications.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2024

(21) Application No.202441043258 A

(43) Publication Date : 14/06/2024

(54) Title of the invention : UNRAVELING ECOSYSTEM DYNAMICS: A BOTANICAL AND ZOOLOGICAL EXPLORATION

(51) International classification :G06Q0010060000, G06N0020000000, G06N0005040000, G06Q0090000000, G06Q0050260000

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

(87) International Publication No : NA

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

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(57) Abstract :
The invention relates to a system and method for unraveling ecosystem dynamics through the integration of botanical and zoological data. The system encompasses data collection from diverse plant and animal species, using advanced sensors and techniques, followed by data integration through machine learning algorithms to identify complex ecological interactions. An analysis module generates detailed models representing species interactions and dependencies, while an output module visualizes these models in user-friendly formats such as interactive maps and charts. The invention supports real-time monitoring with automated alerts, and includes a citizen science platform for community data contribution and engagement. This integrated approach enhances ecological research, conservation efforts, and agricultural practices by providing deeper insights into ecosystem dynamics and promoting sustainable environmental management.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2024

(21) Application No.202411002772 A
(43) Publication Date : 02/02/2024

(54) Title of the invention : DEEP LEARNING-BASED TECHNIQUES FOR INVESTIGATING METHODS AND TECHNOLOGIES FOR ENSURING FOOD SAFETY AND QUALITY THROUGHOUT THE FOOD SUPPLY CHAIN, INCLUDING MICROBIAL TESTING, TRACEABILITY SYSTEMS, AND CERTIFICATION PROGRAMS

(51) International classification :G06Q0010060000, G06N0003080000, G06Q0010080000, G06Q0030000000, G06Q0050020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Deep learning-based techniques for investigating methods and technologies for ensuring food safety and quality throughout the food supply chain, including microbial testing, traceability systems, and certification programs is the proposed invention. The proposed invention focuses on understanding the functions of microbial testing, traceability systems, and certification programs. The invention focuses on analysing the methods and technologies for ensuring food safety and quality throughout the food supply chain using algorithms of Deep learning.

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

(12) PATENT APPLICATION PUBLICATION
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(22) Date of filing of Application :07/09/2024

(21) Application No.202431067767 A
(43) Publication Date : 13/09/2024

(54) Title of the invention : Method and Apparatus for Gamified English Language Acquisition through Literary Analysis

(51) International classification	:G09B0019060000, G06F0040300000, G09B0005060000, G06F0040400000, G09B0005020000
(86) International Application No Filing Date	:NA :NA
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(57) Abstract :
The proposed invention provides a method and apparatus for English language acquisition through a gamified digital platform that integrates literary analysis. By combining game elements such as points, badges, and rewards with adaptive learning algorithms, the invention offers a personalized, engaging, and effective language learning experience. Natural language processing (NLP) provides real-time feedback on learners' written responses, while interactive multimedia elements, curated literary texts, and social learning features enhance comprehension, engagement, and cultural understanding. The system is designed to be scalable, cross-platform compatible, and adaptable to individual learner needs, incorporating AI-driven analytics to monitor progress and provide customized support. This invention aims to transform traditional language education by making learning more accessible, enjoyable, and meaningful for a diverse range of learners worldwide.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/09/2024
(21) Application No.202431067729 A
(43) Publication Date : 13/09/2024

(54) Title of the invention : IN-SILICO AND IN-VIVO NEUROPROTECTIVE ROLE OF MOMORDICA CHARANTIA L. PHYTOCOMPONENTS AGAINST DINP INDUCED IN ADULT ZEBRA FISH (DANIO RERIO HAMILTON, 1822)

(51) International classification :A61P0025000000, A61P0025280000, A61P0003100000, A61K0036420000, A61P0025160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
Momordica charantia L. (bitter melon), a cucurbit plant found in tropical and subtropical regions, is widely used in traditional medicine to treat various ailments, including diabetes and cancer, particularly in India, the Indian subcontinent, and China. The plant is rich in bioactive compounds like flavonoids, saponins, triterpenes, and polysaccharides, which contribute to its medicinal properties, such as anti-diabetic, anti-cancer, antioxidant, anti-inflammatory, and anthelmintic effects. Neurodegenerative diseases, such as Alzheimer's, Parkinson's, and multiple sclerosis, are characterized by the progressive loss of neurons, often driven by oxidative stress and inflammation. While many herbs have been studied for their neuroprotective potential, few have focused on M. charantia. This review highlights preclinical studies on M. charantia and its potential neuroprotective effects, emphasizing the need for further research on its antioxidant and anti-inflammatory properties to treat neurodegenerative and neuroinflammatory diseases.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/09/2024

(21) Application No.202431067384 A
(43) Publication Date : 13/09/2024

(54) Title of the invention : ENHANCING CLEANER MAIZE PRODUCTION WITH ORGANIC NUTRIENT STRATEGIES IN HIMALAYAN REGIONS

(51) International classification	:C05F0003000000, C05F0011080000, C05F0005000000, H01L0027320000, C05F0017400000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A study conducted from 2019 to 2021 in Sikkim, India, investigated the impact of integrated organic nutrient management on maize (Zea mays L.) crops grown in acidic soil. The study compared five organic nutrient management practices, including various combinations of farmyard manure (FYM), mixed compost (MC), vermicompost (VC), and biofertilizers (BFs), against the traditional farming practice of applying 5 Mg ha−1 FYM. The results showed that applying 50% of the recommended nitrogen dose (RDN) through FYM and 50% through MC with BFs significantly improved green cob yield, biological yield, net return, production efficiency, and energy dynamics by up to 29% compared to the farmers' practice. Additionally, soil health indicators like bulk density, water-stable aggregates, organic carbon, and nutrient availability were enhanced. This approach also boosted soil enzymatic activity, suggesting that this integrated nutrient management system is a viable and sustainable option for maize production in acidic soils.

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