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(12) PATENT APPLICATION PUBLICATION

(21) Application No.448/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :24/04/2015

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Centurian University of Technology & Management
(32) Priority Date	:NA	(CUTM)
(33) Name of priority country	:NA	Address of Applicant :HIG-5, Phase - 1, BDA Duplex
(86) International Application No	:NA	Pokhariput, Khurda District Bhubaneswar, ODISHA - 751020
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Ashok Misra
(61) Patent of Addition to Application Number	:NA	2)Dr. Saroj Kumar Mishra
Filing Date	:NA	3)Dr. Pradeep Kumar Tripathy
(62) Divisional to Application Number	:NA	4)Dr. Damera Nageswara Rao
Filing Date	:NA	

(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

(21) Application No.455/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :25/04/2015

(43) Publication Date : 05/06/2015

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

(51) International classification	:B24B3/46	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Centurian University of Technology & Management
(32) Priority Date	:NA	(CUTM)
(33) Name of priority country	:NA	Address of Applicant :Centurian University of Technology &
(86) International Application No	:NA	Management (CUTM) HIG-5, Phase - 1, BDA Duplex Pokhariput,
Filing Date	:NA	Khurda District Bhubaneswar, ODISHA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Mir Sadit Ali
Filing Date	:NA	2)Aurobindo Sahu
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

(21) Application No.561/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :22/05/2015

(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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Address of Applicant :HIG-5, Phase -1, BDA Duplex
Pokhariput, Khurda Dt., Bhubaneswar Orissa

(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 from one place to other for powering water pumps.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.574/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :25/05/2015

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :HIG-5, Phase -1, BDA Duplex
(33) Name of priority country	:NA	Pokhariput, Khurda Dt., Bhubaneswar Orissa
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Shashikant Tewary
(87) International Publication 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 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

(21) Application No.612/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :31/05/2015

(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)
(32) Priority Date	:NA	Address of Applicant :HIG-5, Phase -1, BDA Duplex
(33) Name of priority country	:NA	Pokhariput, Khurda Dt., Bhubaneswar
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)Prafulla Kumar Panda
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

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

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

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

(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

(71)Name of Applicant :
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Address of Applicant :HIG-5, Phase -1, BDA Duplex
Pokhariput, Khurda Dt., Bhubaneswar, Orissa
(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

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

(19) INDIA

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

(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	(71)Name of Applicant :	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(31) Priority Document No	:NA	Address of Applicant :	HIG-5, Phase -1, BDA Duplex
(32) Priority Date	:NA	Pokhariput, Khurda Dt., Bhubaneswar Orissa	
(33) Name of priority country	:NA	(72)Name of Inventor :	1)Satya Narayan Padhy
(86) International Application No	:PCT//	2)Sariha Kalra	
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 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

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

(19) INDIA

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

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM) HIG-5, Phase -1, BDA Duplex Pokhariput, Khurda Dt., Bhubaneswar Orissa
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:PCT//	1)Annepu Lakshumu Naidu
Filing Date	:01/01/1900	2)Damera Nageswara Rao
(87) International Publication 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 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

(21) Application No. 749/KOL/2015 A

(19) INDIA

(22) Date of filing of Application : 10/07/2015

(43) Publication Date : 07/08/2015

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

(51) International classification	:G06F3/0488	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :HIG-5, Phase -1, BDA Duplex
(33) Name of priority country	:NA	Pokhariput, Khurda Dt., Bhubaneswar Orissa
(86) International Application No	:PCT// /	(72)Name of Inventor :
Filing Date	:01/01/1900	1)Dr. Prajna Pani
(87) International Publication No	: NA	2)Sashi Bhushan Maharana
(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 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

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

(21) Application No.756/KOL/2015 A ✓

(43) Publication Date : 11/09/2015 ✓

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

(51) International classification	:H04B7/06	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :HIG-5, Phase -1, BDA Duplex
(33) Name of priority country	:NA	Pokhariput, Khurda Dt., Bhubaneswar Orissa India
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)Abinash Gaya
(87) International Publication 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 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

(21) Application No.1181/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :20/11/2015

(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

(71)Name of Applicant :
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(72)Name of Inventor :
1)Shiv Sankar 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

(21) Application No.1182/KOL/2015 A

(19) INDIA

(22) Date of filing of Application :20/11/2015

(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

(71)Name of Applicant :

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Address of Applicant :HIG-5, Phase -1, BDA Duplex
Pokhariput, Khurda Dt., Bhubaneswar-751020 Orissa India

(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

(21) Application No.201631029622 A

(19) INDIA

(22) Date of filing of Application :30/08/2016

(43) Publication Date : 07/10/2016

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

(51) International classification	:H02J17/00	(71)Name of Applicant :	
(31) Priority Document No	:NA	1)Centurion University of Technology and Management	
(32) Priority Date	:NA	Address of Applicant :17, Forest park, Bhubaneswar, Khurda	
(33) Name of priority country	:NA	District - 751009, Odisha, India	
(86) International Application No	:PCT//	(72)Name of Inventor :	
Filing Date	:01/01/1900	1)Udaya Kumar Sahoo	
(87) International Publication No	: NA		
(61) Patent of Addition to Application Number	:NA		
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

(57) Abstract :

An improved 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

(21) Application No.201631029623 A

(19) INDIA

(22) Date of filing of Application :30/08/2016

(43) Publication Date : 07/10/2016

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

(51) International classification	:F26B3/28	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :17, Forest park, Bhubaneswar, Khurda
(33) Name of priority country	:NA	District - 751009, Odisha, India
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)Udaya Kumar Sahoo
(87) International Publication No	:NA	2)Debashree Debadatta Behara
(61) Patent of Addition to Application Number	:NA	3)Biswajit Nayak
Filing Date	:NA	4)Shiva Sankar Das
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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 heat 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

(21) Application No.201631029624 A

(19) INDIA

(22) Date of filing of Application :30/08/2016

(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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Address of Applicant :17, Forest park, Bhubaneswar, Khurda
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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

(21) Application No.201641029625 A

(19) INDIA

(22) Date of filing of Application :30/08/2016

(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 :
(31) Priority Document No	:NA	1)P.Govinda Rao
(32) Priority Date	:NA	Address of Applicant :S/o Vykunta Rao Belamara Village & Post,Polaki Mandal, Srikakulam-532 430,Andhra Pradesh, India
(33) Name of priority country	:NA	Andhra Pradesh India
(86) International Application No	:NA	2)Dr.P.SRINIVASA RAO
Filing Date	:NA	3)A.Gopala Krishna
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)P.Govinda Rao
Filing Date	:NA	2)Dr.P.SRINIVASA RAO
(62) Divisional to Application Number	:NA	3)A.Gopala Krishna
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

(21) Application No.201641032469 A

(19) INDIA

(22) Date of filing of Application :23/09/2016

(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

(71)Name of Applicant :

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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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2017 Patent Details

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201731027568 A

(19) INDIA

(22) Date of filing of Application :03/08/2017

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (CUTM)
(32) Priority Date	:NA	Address of Applicant :HIG – 5, Phase -1, BDA Duplex
(33) Name of priority country	:NA	Pokhariput, Khurda District, Bhubaneswar – 751020 Odisha, India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Aamlan Saswat Mishra
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention proposes a system for precise farm monitoring and microclimate control. The system comprises 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 processor. The processor is configured to compare the values with predetermined limits stored in the processor and thereby control the connected devices such as foggers to spray water vapor into the environment for maintaining the temperature between of the farm of a place between wet bulb and dry bulb temperature, fertilizer valve to supply nutrients, irrigation pump to supply water and thereof. The farmers, sharecroppers and the like can trade and display yield on a global market through the application module of the system 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 crops 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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Website: www.cutm.ac.in

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201731018651 A

(19) INDIA

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

(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	(71)Name of Applicant : 1)Centurion University of Technology and Management Address of Applicant :17, Forest park, Bhubaneswar, Khurda District - 751009, Odisha, India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Udaya Kumar Sahoo
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention 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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2019 Patent Details

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201731043327 A

(19) INDIA

(22) Date of filing of Application :03/12/2017

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

(21) Application No.201731043328 A

(19) INDIA

(22) Date of filing of Application :03/12/2017

(43) Publication Date : 07/06/2019

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

(51) International classification	:G01N 33/00	(71)Name of Applicant : 1)Centurion University of Technology and Management (CUTM)
(31) Priority Document No	:NA	Address of Applicant :17, Forest park, Bhubaneswar, Khurda
(32) Priority Date	:NA	District - 751009, Odisha, India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Sangram Keshari Swain
Filing Date	:NA	2)Subrat Kumar Pradhan
(87) International Publication No	:NA	3)Swarna Prabha Jena
(61) Patent of Addition to Application Number	:NA	4)Saroj Behera
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

(21) Application No.201731043329 A

(19) INDIA

(22) Date of filing of Application :03/12/2017

(43) Publication Date : 07/06/2019

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

(51) International classification	:A47J 37/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Centurion University of Technology and Management (CUTM)
(32) Priority Date	:NA	Address of Applicant :# 17, Forest park, Bhubaneswar, Pin -
(33) Name of priority country	:NA	751009, Dist; Khurda, Odisha, India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Nityananda Padhy
(87) International Publication No	: NA	2)Debashree debadatta Behera
(61) Patent of Addition to Application Number	:NA	3)Dr Biswajit Nayak
Filing Date	:NA	4)Shiv Sankar Das
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

(21) Application No.201941040224 A

(19) INDIA

(22) Date of filing of Application :04/10/2019

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Deepa R
(32) Priority Date	:NA	Address of Applicant :Assistant Professor, Department of Information Technology, St. Joseph's College of Engineering, Chennai, India Tamil Nadu India
(33) Name of priority country	:NA	2)Priyadharshini K
(86) International Application No	:NA	3)Bennet Prabhu .A
Filing Date	:NA	4)Dr. Sujata Chakravarty
(87) International Publication No	:NA	5)Amar Kumar Das
(61) Patent of Addition to Application Number	:NA	6)Dr. Prashant Kumar Shukla
Filing Date	:NA	7)Dr. Piyush Kumar Shukla
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Deepa R
		2)Priyadharshini K
		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

(21) Application No.201931004151 A

(19) INDIA

(22) Date of filing of Application :01/02/2019

(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	(71) Name of Applicant : 1)Centurion University of Technology & Management (CUTM) Address of Applicant :Alluri Nagar Village, P.O- R Sitapur, Via- Uppalada, Paralakhemundi, Gajapati- 761211, Odisha, India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Avinash Seekoli
(33) Name of priority country	:NA	2)Debasish Mohanty
(86) International Application No	:NA	3)S.Ranjit Rao
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

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

(21) Application No.201931032613 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(43) Publication Date : 19/06/2020

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

(51) International classification	:A61K0036230000, A61K0031474500, A61K0048000000, A61K0041000000, A61K0009480000	(71)Name of Applicant : 1)Centurion University of Technology & Management (CUTM) Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Preetha Bhadra
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The 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

(21) Application No.201931032614 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(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	(71)Name of Applicant : 1)Centurion University of Technology & Management (CUTM) Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Preetha Bhadra
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The 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

(21) Application No.201931032615 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(43) Publication Date : 19/06/2020

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

(51) International classification	:A61K0048000000, A61K0041000000, A61K0031708000, A61K0031417800, A61K0009480000	(71)Name of Applicant : 1)Centurion University of Technology & Management (CUTM) Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Preetha Bhadra
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The 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, sotofon 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

(21) Application No.201931032616 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(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 :NA
Filing Date :NA
(87) 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 & Management (CUTM)

Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India

(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

(21) Application No.201931041144 A

(19) INDIA

(22) Date of filing of Application :11/10/2019

(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	(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT (CUTM) Address of Applicant :At-Alluri Nagar Village, PO-R Sitapur, Via-Uppalada, Paralakhemundi- 761211, Gajapati Dist. Odisha, India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Nimay Chandra Giri
(33) Name of priority country	:NA	2)Bishnu Prasad Mishra
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

(21) Application No.201931045677 A

(19) INDIA

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

(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

(71)Name of Applicant :

1)Centurion University of Technology & Management (CUTM)

Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi- 761211, Gajapati District, Odisha, India.

(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

(21) Application No.201931049814 A

(19) INDIA

(22) Date of filing of Application :03/12/2019

(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 :NA
Filing Date :NA
(87) 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 (CUTM)

Address of Applicant :Alluri Nagar Village, PO-R Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati Dist, Odisha, India

(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

(21) Application No.201931051679 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(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	(71)Name of Applicant : 1)Centurion University of Technology and Management (CUTM) Address of Applicant :Alluri Nagar, PO-R.Sitapur, Via- Uppalada, Parlakhemundi-761211, Gajapathi Dist, Odisha, India
(31) Priority Document No.	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Pritam Das
(33) Name of priority country	:NA	2)Jyoti Lal Lodhi
(86) International Application No	:NA	3)N.Laxmidhar Reddy
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

(21) Application No.201931054080 A

(19) INDIA

(22) Date of filing of Application :27/12/2019

(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 :NA
Filing Date :NA
(87) 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)Preetha Bhadra

Address of Applicant :D/o Tapash Bhadra Babupara, Sir
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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

(21) Application No.201941032262 A

(19) INDIA

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

(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 :
(31) Priority Document No	:NA	1)Dr.GURRAM ARUN MANOHAR
(32) Priority Date	:NA	Address of Applicant :50-94-25/12, ARUN APARTMENTS
(33) Name of priority country	:NA	SHANTIPURAM, VISAKHAPATNAM, ANDHRA PRADESH-
(86) International Application No	:NA	530016, INDIA. Andhra Pradesh India
Filing Date	:NA	2)Dr.G.Arun Manohar
(87) International Publication No	:NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.GURRAM ARUN MANOHAR
Filing Date	:NA	2)Dr.G.Arun Manohar
(62) Divisional to Application Number	:NA	3)Dr.D.Nageswara Rao
Filing Date	:NA	4)Dr.D. NAGESWARA RAO

(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

(21) Application No.202031024943 A

(19) INDIA

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

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

(71)Name of Applicant :

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Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

1)Preetha Bhadra

(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

(21) Application No.202031024944 A

(19) INDIA

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

(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

(71)Name of Applicant :

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Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.

(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

(21) Application No.202031024945 A

(19) INDIA

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

(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

(71)Name of Applicant :

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Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.

(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

(21) Application No.202031024946 A

(19) INDIA

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

(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

(71)Name of Applicant :

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Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.

(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 trigonelline, 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

(21) Application No.202031027644 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Centurion University of Technology & Management (CUTM)
(32) Priority Date	:NA	Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Chinmaya Chidananda Behera
Filing Date	:NA	2)Dr.Amulyaratna Behera
(87) International Publication No	:NA	3)Dr.Priyanka Das
(61) Patent of Addition to Application Number	:NA	4)Mrs.Suchismeeta Behera
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

(21) Application No.202031027645 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(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

(71)Name of Applicant :

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Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

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 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

(21) Application No.202031027646 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(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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Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.

(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

(21) Application No.202031027647 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(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 :

1) Centurion University of Technology & Management (CUTM)

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.

(72) Name of Inventor :

1) Chinmaya Chidananda Behera

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

(21) Application No.202031027660 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(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

(71)Name of Applicant :

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Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India

(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

(21) Application No.202031027661 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(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

(71)Name of Applicant :
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Address of Applicant :At-Alluri Nagar Village, PO-R, Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India
(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 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

(21) Application No.202031035660 A

(19) INDIA

(22) Date of filing of Application :19/08/2020

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

(71)Name of Applicant :

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Address of Applicant :Flat-251, Northern Heights,
Nandanvihar, Bhubaneswar-751024, Odisha, India.

(72)Name of Inventor :

1)Payal Bhadra

2)Avijit Balabantaray

3)Sujit Kumar Sahoo

4)Dr.Sujata Chakravarty

(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

(21) Application No.202031035686 A

(19) INDIA

(22) Date of filing of Application :19/08/2020

(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	(71)Name of Applicant : 1)DR.SATYABRATA DASH Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, GANDHI ENGINEERING COLLEGE, BHUBANESWAR-754006,ORISSA,INDIA 2)DR.HEMRAJ SAINI 3)DR.SUJATA CHAKARVARTY 4)SWARNAPRABHA JENA 5)SUBRAT KUMAR PRADHAN 6)MR.BARADA P.PANIGRAHY 7)DR.SUBASH CH. NATH 8)DR.SUSANTA KUMAR ROUT
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR.SATYABRATA DASH 2)DR.HEMRAJ SAINI 3)DR.SUJATA CHAKARVARTY 4)SWARNAPRABHA JENA 5)SUBRAT KUMAR PRADHAN 6)MR.BARADA P.PANIGRAHY 7)DR.SUBASH CH. NATH 8)DR.SUSANTA KUMAR ROUT
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The 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

(21) Application No.202031039046 A

(19) INDIA

(22) Date of filing of Application :10/09/2020

(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	(71)Name of Applicant : 1)DR.SATYABRATA DASH Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING , GANDHI ENGINEERING COLLEGE, BHUBANESWAR-754006, ODISHA, INDIA. 2)DR.HEMRAJ SAINI 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
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR.SATYABRATA DASH 2)DR.HEMRAJ SAINI 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
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

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

(21) Application No.202031048523 A

(19) INDIA

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

(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	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR.GEETANJALI RATHEE
(32) Priority Date	:NA	Address of Applicant :DEPARTMENT OF COMPUTER
(33) Name of priority country	:NA	SCIENCE AND ENGINEERING, JAYPEE UNIVERSITY OF
(86) International Application No	:NA	INFORMATION TECHNOLOGY,WAKNAGHAT,SOLAN
Filing Date	:NA	2)DR.HEMRAJ SAINI
(87) International Publication No	: NA	3)DR.SATYABRATA DASH
(61) Patent of Addition to Application Number	:NA	4)DR.SUJATA CHAKARVARTY
Filing Date	:NA	5)DR.SUSANTA KUMAR ROUT
(62) Divisional to Application Number	:NA	6)MR.BARADA P.PANIGRAHY
Filing Date	:NA	(72)Name of Inventor :
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		4)DR.SUJATA CHAKARVARTY
		5)DR.SUSANTA KUMAR ROUT
		6)MR.BARADA P.PANIGRAHY

(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

(21) Application No.202041052200 A

(19) INDIA

(22) Date of filing of Application :01/12/2020

(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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13)Mr.Ajay Kumar Prusty

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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 :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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11)Mr. Tarun Kumar,Laureate Institute of Pharmacy
12)Mr. Sanjay Kumar,Gautam college of Pharmacy

(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.



Dated this 9th day of June 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.



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.



Dated this 3rd day of March 2021

Commissioner of Patents

PATENTS ACT 1990

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Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021100000

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:

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:



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.



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021100002

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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Prasun Chakrabarti of Provost & Institute Endowed Distinguished, Senior Chair Professor, Techno India NJR Institute of Technology Udaipur, Rajasthan - 313003 India

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:



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

(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

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Filing Date

:NA

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11)Dr.Bassa Satyannarayana

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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

(21) Application No.202141018335 A

(19) INDIA

(22) Date of filing of Application :21/04/2021

(43) Publication Date : 30/04/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED ANIMAL DETECTION AND IDENTIFICATION 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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(57) Abstract :

ABSTRACT: Title: Artificial Intelligence Based Animal Detection and Identification System for Protection of Field Crops. The present disclosure proposes an artificial intelligence based animal detection and identification system for protection of field crops. The system comprises of an animal detection module 101, a video capturing module 102, a position detection module 103, a processing module 104, a projection module 105, and a sound producing module 106. The system 100 system protects the field crops 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 does not cause any 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

(21) Application No.202131001373 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(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	(71)Name of Applicant : 1)DR.SATYABRATA DASH Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, GANDHI ENGINEERING COLLEGE, BHUNANESWAR,ORISSA. 2)DR.HEMRAJ SAINI 3)DR.SUJATA CHAKARVARTY 4)SWARNA PRABHA JENA 5)SUBRAT KUMAR PRADHAN 6)MR.BARADA P.PANIGRAHY 7)DR.SUBAS CH. NATH 8)DR.SUSANTA KUMAR ROUT
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The 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

(21) Application No.202131028359 A

(19) INDIA

(22) Date of filing of Application :24/06/2021

(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	(71)Name of Applicant : 1)DR.SATYABRATA DASH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,RAMACHANDRA COLLEGE OF ENGINEERING(RCE),NH-16 BYPASS ROAD,VATLURU(V),ELURU,534007, WEST GODAVARI DT.,A.P.,INDIA 2)DR.VADHRI SURYANARAYANA 3)DR.RABI NARAYAN SATHAPATHY 4)DR.JARABALA RANGA 5)MR.BARADA P.PANIGRAHY 6)DR.SUBASH CHANDRA NATH 7)DR.S.JAYA LAKSHMI 8)DR.SUJATA CHAKARVARTY 9)DR.HEMRAJ SAINI 10)DR.SUSANTA KUMAR ROUT
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
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(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 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

(21) Application No.202141033481 A

(19) INDIA

(22) Date of filing of Application :26/07/2021

(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,
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(31) Priority Document No :NA
(32) Priority Date :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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(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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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.



Dated this 25th day of August 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.



Australian Government

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Register of Patents

Patents Act 1990

Innovation Patent

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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

This data is current as of 2019-08-20 18:00 AEST.

Note: If not stamped and signed, this is not a certified copy for the purposes of section 195 or 197 of the Patents Act.

Page 1 of 2

Date Granted: 8 September 2021

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सत्यमेव जयते

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
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Application Details

APPLICATION NUMBER	202131042186
APPLICATION TYPE	ORDINARY APPLICATION
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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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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/10/2021



Australian Government

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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

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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

(21) Application No.202141049308 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(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



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
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Application Details

APPLICATION NUMBER	202131050687
APPLICATION TYPE	ORDINARY APPLICATION
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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	
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Office of the Controller General of Patents, Designs & Trade Marks
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 Government of India

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Application Details

APPLICATION NUMBER	202141047288
APPLICATION TYPE	ORDINARY APPLICATION
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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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Office of the Controller General of Patents, Designs & Trade Marks
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Application Details

APPLICATION NUMBER	202131033044
APPLICATION TYPE	ORDINARY APPLICATION
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Application Status

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043000 A

(19) INDIA

(22) Date of filing of Application :22/09/2021

(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//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :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 produce different Image Modalities which are fused to improve the quality to diagnose the patient diseases. The information present in the image can be improved by the fusion in different image modalities such as CT Images, MR Images, PET Images, and SPECT Images and so on. There is a 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

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2021 106 308

Bezeichnung:

Multifunktionaler Kabinensitz für Passagierflugzeuge mit künstlicher Intelligenz

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B64D 11/06

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Tag der Anmeldung:

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03.12.2021

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer



München, 03.12.2021



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Application Details

APPLICATION NUMBER	202231004407
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	AN ECONOMICALLY LOW COST INTEGRATED MODEL FOR THE HYBRIDIZATION AND ELECTRIC TRANSFORMATION OF CARS AND ADDED MECHATRONIC VEHICLES
FIELD OF INVENTION	ELECTRONICS
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/02/2022

Application Status



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Register of Patents

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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

This data is current as of 2019-08-20 18:00 AEST.

Note: If not stamped and signed, this is not a certified copy for the purposes of section 195 or 197 of the Patents Act.

Page 1 of 2

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.

Name and address of patentee(s):

Asif Basha Shaik of 22 Glenroy Road Glenroy VIC 3046 Australia

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

Sreelekha Panda of Research Scholar, Centurion University of Tech and Mangmnt Bhubaneswar Odisha India

Mihir Narayan Mohanty of SOA University Bhubaneswar Odisha India

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.



Dated this 23rd day of March 2022

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.



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.



Dated this 6th day of April 2022

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.



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):

Asif Basha Shaik of 22 Glenroy Road Glenroy VIC 3046 Australia

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

Tiruvedula 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, Tiruvedula; 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.



Dated this 20th day of April 2022

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

(21) Application No.202241021062 A

(19) INDIA

(22) Date of filing of Application :08/04/2022

(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 :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 :

1)Centurion University of Technology & Management (CUTM)

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.

In testimony 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 substituted:			Date registered	
71	Assignee(s):			Date registered	
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
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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

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

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



A handwritten signature in black ink, appearing to be 'S. D. M.', written over a dotted line.

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 Centurion University of Technology and Management, Odisha, 752050, India					
71	Applicant substituted:			Date registered	
71	Assignee(s):			Date registered	
72	Full name(s) of inventor(s):				
PANIGRAHI, Gagan Kumar 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				
Wolmarans & 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
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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

(21) Application No.202231026515 A

(19) INDIA

(22) Date of filing of Application :07/05/2022

(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 :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 :
1)Centurion University of Technology & Management (CUTM)
Address of Applicant : At-Alluri Nagar, PO-R.Sitapur via-Uppalada, Parlakhemundi, Gajapati District, Odisha, India – 761211. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Prof. Nimay Chandra Giri
Address of Applicant :Department of Electronics and Communication Engineering, Centurion University of Technology & Management (CUTM) Bhubaneswar, Odisha-752050 India -----
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

(21) Application No.202231039408 A

(19) INDIA

(22) Date of filing of Application :08/07/2022

(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 :

1)Centurion University of Technology & Management (CUTM)

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi, Gajapati District, Odisha, India – 761211 Parlakhemundi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rajesh Kumar Mohanty

Address of Applicant :Ph.D.Scholar (Inter disciplinary) Centurion University of Technology and Management Bhubaneswar, Odisha, India. 752050 Bhubaneswar -----

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

(21) Application No.202131004379 A

(19) INDIA

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

(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	(71)Name of Applicant : 1)Centurion University of Technology and Management (CUTM) Address of Applicant :At-Alluri Nagar, PO-R.Sitapur, Via-Uppalada, Gajapati District, Parlakhemundi-761211, Odisha, India. Orissa India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Bidyut Kumar Kundu
(33) Name of priority country	:NA	2)Suman Mukhopadhyay
(86) International Application No	:NA	3)Pragti
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure 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

(21) Application No.202231056036 A

(19) INDIA

(22) Date of filing of Application :29/09/2022

(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 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 :

1)Centurion University of Technology & Management (CUTM)

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Gajapati District Parlakhemundi-761211, Odisha, India. Parlakhemundi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :Lecturer, University Department of Pharmaceutical Sciences, Utkal University, Vani Vihar, Bhubaneswar-751004, Odisha, India. Bhubaneswar -----

2)Dr. Bhisma Narayan Ratha

Address of Applicant :Assistant Professor, SoABE, At-Alluri Nagar, PO-R.Sitapur Via Uppalada, Gajapati District, Parlakhemundi-761211, Odisha, India. Parlakhemundi -----

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



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



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)	
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



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



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



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
ADDITIONAL-EMAIL (As Per Record)	tumula.githam@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/11/2022

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

(51) International classification :A61K0036750000, G01R0033563000, A61P0011060000, A61P0003100000, C07D0417040000
(86) International Application No :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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(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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Application Details

APPLICATION NUMBER	202241064085
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/11/2022
APPLICANT NAME	<ol style="list-style-type: none"> 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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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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Application Status



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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	
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Application Status



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Ministry of Commerce & Industry,
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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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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status



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Application Details

APPLICATION NUMBER	202241062141
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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

(21) Application No.202211010470 A

(19) INDIA

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

(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

(21) Application No.202211013212 A

(19) INDIA

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

(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 :G06N002000000, 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

(21) Application No.202241013549 A

(19) INDIA

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

(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//
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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 :

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

(21) Application No.202211013548 A

(19) INDIA

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

(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

(21) Application No.202231011883 A

(19) INDIA

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

(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

(21) Application No.202231012165 A

(19) INDIA

(22) Date of filing of Application :07/03/2022

(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
Filing Date :NA

(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.20221012862 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, H01H003366000, 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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(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.

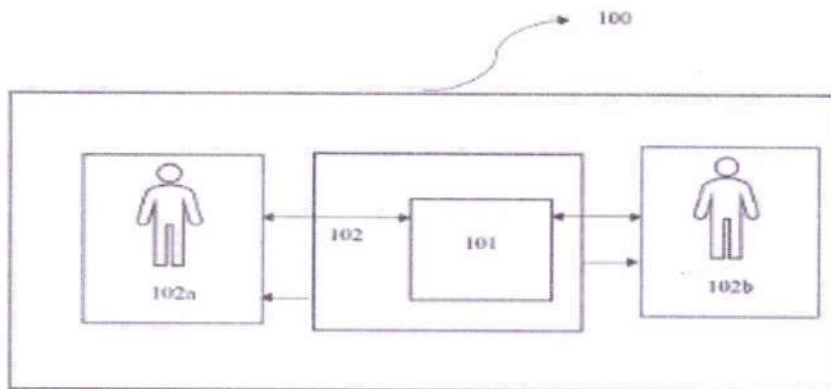


Figure 1: Schematic view

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221011890 A

(19) INDIA

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

(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 :G06N002000000, 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.

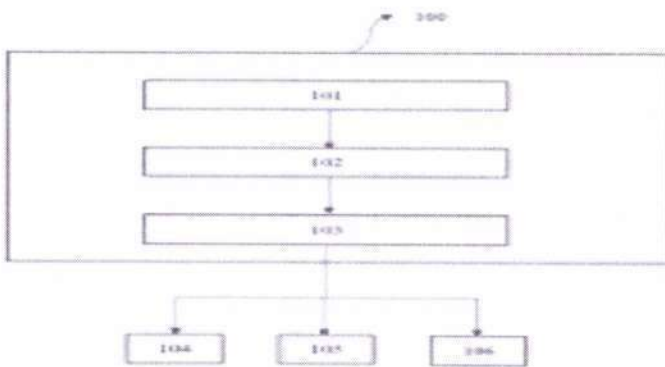


Figure 1: Block Diagram

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221011870 A

(19) INDIA

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

(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
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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.

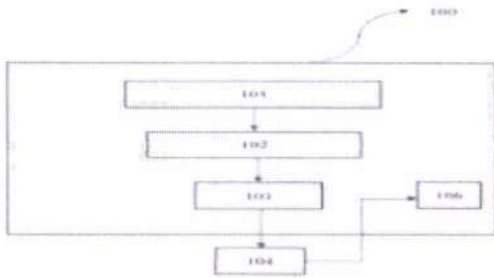


Figure 1. Block diagram

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

(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
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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

(21) Application No.202211053620 A

(19) INDIA

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

(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 : 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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(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

(21) Application No.202231055096 A

(19) INDIA

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

(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, A61F0021000000

(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 :

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

(21) Application No.202241063289 A

(19) INDIA

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

(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

(21) Application No.202241064454 A

(19) INDIA

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

(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 :G06N002000000, G06Q001000000, G06K000962000, 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
Filing Date :NA
(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

(21) Application No.202241065523 A

(19) INDIA

(22) Date of filing of Application :15/11/2022

(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 :A61P003500000, A61P004300000, 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

(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 CuFe₂O₄, NiFe₂O₄, CoFe₂O₄, and MnFe₂O₄ 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



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 Ort 50672 Köln, DE <input checked="" type="checkbox"/> Elektronisches Postfach	Antrag auf Eintragung eines Gebrauchsmusters	2
	Datum TT MM JJJJ _____ 21 10 2022		
(2)	Zeichen des Anmelders/Vertreters (max. 20 Stellen) G11848DE	Telefon des Anmelders/Vertreters +49 221 42357744	
(3)	Der Empfänger in Feld (1) ist der <input type="checkbox"/> Anmelder <input type="checkbox"/> Zustellungsbevollmächtigte <input type="checkbox"/> Vertreter	ggf. Nr. der Allgemeinen Vollmacht _____	
(4)	<div style="font-size: 8pt; margin-bottom: 5px;"> nur auszufüllen, wenn abweichend von Feld (1) Handelsregisternummer nur bei Firmen anzugeben </div> Anmelder (1) Name, Vorname / Firma lt. Handelsregister Prof. Giri, Nimay Chandra Assistant Professor, Department of Electronics and Communication Engineering, Centurion University of Technology and Management _____ Straße, Hausnummer (kein Postfach!) Staff Residence-7, Centurion University of Technology and Management Postleitzahl Ort Land 752050 Jatni, Odisha IN Telefon Fax E-Mail _____ <input type="checkbox"/> Der Anmelder ist eingetragen im Handelsregister Nr. _____ beim Amtsgericht _____		
	Anmelder (2) Name, Vorname / Firma lt. Handelsregister Dr. Bajaj, Mohit Assistant Professor, Department of Electrical Engineering, Graphic Era (Deemed to be University), Dehradun _____ Straße, Hausnummer (kein Postfach!) S/O Yashpal Bajaj, HN-100, East Ambar Talab Postleitzahl Ort Land 247667 Roorkee, Uttarakhand IN Telefon Fax E-Mail _____ <input type="checkbox"/> Der Anmelder ist eingetragen im Handelsregister Nr. _____		

beim Amtsgericht

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beim Amtsgericht _____

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beim Amtsgericht _____

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Chief Scientist, We Grow Private Limited

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Telefon _____ Fax _____ E-Mail _____

Der Anmelder ist eingetragen im Handelsregister Nr. _____
beim Amtsgericht _____

Vertreter (1)

Name, Vorname / Firma
Hohendorf Kierdorf Patentanwälte PartGmbB

Straße, Hausnummer / ggf. Postfach

	Hohenzollernring 79-83 Postleitzahl <input type="text" value="50672"/> Ort <input type="text" value="Köln"/> Land <input type="text" value="DE"/> Telefon <input type="text" value="+49 221 42357744"/> Fax <input type="text" value="+49 221 42357745"/> E-Mail <input type="text" value="office@hohendorf-kierdorf.com"/>						
(5) soweit bekannt	Anmelder-Nr. <input type="text"/> Vertreter-Nr. <input type="text"/> Zustelladressen-Nr. <input type="text" value="108972623"/>						
(6) IPC Vorschlag ist unbedingt anzugeben, sofern bekannt	Bezeichnung der Erfindung <input type="text"/> <div style="text-align:right; font-size:small;">IPC-Vorschlag des Anmelders</div> Ein System für einen programmierbaren, zeitgesteuerten, drahtlosen Sensor-Knoten mit Energiegewinnung, der einen Funkzugang mit großer Reichweite nutzt						
(7)	Sonstige Anträge <input type="checkbox"/> Aussetzung der Eintragung und Bekanntmachung für ___ Monate (§ 8 Absatz 1 Satz 2 Gebrauchsmustergesetz) <i>(Max. 15 Monate ab Anmelde- bzw. Prioritätstag)</i> <input type="checkbox"/> Rechercheantrag - Ermittlung der öffentlichen Druckschriften (§ 7 Gebrauchsmustergesetz)						
(8)	Erklärungen <table style="width:100%; border:none;"> <tr> <td style="width:50%;"></td> <td style="width:25%; text-align:center; font-size:small;">Aktenzeichen</td> <td style="width:25%; text-align:center; font-size:small;">Anmeldetag</td> </tr> <tr> <td> <input type="checkbox"/> Abzweigung aus der Patentanmeldung/dem Patent <input type="checkbox"/> Der Anmelder ist an Lizenzvergabe interessiert (unverbindlich) </td> <td style="border:1px solid black; width:25%;"></td> <td style="border:1px solid black; width:25%;"></td> </tr> </table>		Aktenzeichen	Anmeldetag	<input type="checkbox"/> Abzweigung aus der Patentanmeldung/dem Patent <input type="checkbox"/> Der Anmelder ist an Lizenzvergabe interessiert (unverbindlich)		
	Aktenzeichen	Anmeldetag					
<input type="checkbox"/> Abzweigung aus der Patentanmeldung/dem Patent <input type="checkbox"/> Der Anmelder ist an Lizenzvergabe interessiert (unverbindlich)							
(9)	<input type="checkbox"/> Inländische Priorität (Datum, Aktenzeichen der Voranmeldung) <input type="text"/> <input type="checkbox"/> Ausländische Priorität (Datum, Land, Aktenz. der Voranmeldung) <input type="text"/> <input type="checkbox"/> Ausstellungspriorität (Datum der erstmaligen Zurschaustellung, Ausstellung) <input type="text"/>						
(10)	Gebührenzahlung in Höhe von <u>30,00</u> EUR <table style="width:100%; border:none;"> <tr> <td style="width:50%; vertical-align:top;"> Zahlung per Banküberweisung <input type="checkbox"/> Überweisung <i>(nach Erhalt der Empfangsbestätigung)</i> Zahlungsempfänger: Bundeskasse/DPMA IBAN: DE84 7000 0000 0070 0010 54 BIC (SWIFT-Code): MARKDEF1700 Anschrift der Bank: Bundesbankfiliale München Leopoldstr. 234, 80807 München </td> <td style="width:50%; vertical-align:top;"> Zahlung mittels SEPA-Basis-Lastschrift <input checked="" type="checkbox"/> Ein gültiges SEPA-Basis-Lastschriftmandat (Formular A 9530) <input checked="" type="checkbox"/> liegt dem DPMA bereits vor (Mandat für mehrmalige Zahlungen) <input type="checkbox"/> ist beigelegt <input checked="" type="checkbox"/> Angaben zum Verwendungszweck (Formular A 9532) des Mandats mit Mandatsreferenznummer sind beigelegt </td> </tr> </table> <p>! Wird die Anmeldegebühr nicht innerhalb von 3 Monaten nach dem Tag des Eingangs der Anmeldung gezahlt, so gilt die Anmeldung als zurückgenommen!</p>	Zahlung per Banküberweisung <input type="checkbox"/> Überweisung <i>(nach Erhalt der Empfangsbestätigung)</i> Zahlungsempfänger: Bundeskasse/DPMA IBAN: DE84 7000 0000 0070 0010 54 BIC (SWIFT-Code): MARKDEF1700 Anschrift der Bank: Bundesbankfiliale München Leopoldstr. 234, 80807 München	Zahlung mittels SEPA-Basis-Lastschrift <input checked="" type="checkbox"/> Ein gültiges SEPA-Basis-Lastschriftmandat (Formular A 9530) <input checked="" type="checkbox"/> liegt dem DPMA bereits vor (Mandat für mehrmalige Zahlungen) <input type="checkbox"/> ist beigelegt <input checked="" type="checkbox"/> Angaben zum Verwendungszweck (Formular A 9532) des Mandats mit Mandatsreferenznummer sind beigelegt				
Zahlung per Banküberweisung <input type="checkbox"/> Überweisung <i>(nach Erhalt der Empfangsbestätigung)</i> Zahlungsempfänger: Bundeskasse/DPMA IBAN: DE84 7000 0000 0070 0010 54 BIC (SWIFT-Code): MARKDEF1700 Anschrift der Bank: Bundesbankfiliale München Leopoldstr. 234, 80807 München	Zahlung mittels SEPA-Basis-Lastschrift <input checked="" type="checkbox"/> Ein gültiges SEPA-Basis-Lastschriftmandat (Formular A 9530) <input checked="" type="checkbox"/> liegt dem DPMA bereits vor (Mandat für mehrmalige Zahlungen) <input type="checkbox"/> ist beigelegt <input checked="" type="checkbox"/> Angaben zum Verwendungszweck (Formular A 9532) des Mandats mit Mandatsreferenznummer sind beigelegt						
(11)	Anlagen <ol style="list-style-type: none"> 1. <u>6</u> Seite(n) Beschreibung 2. <u>2</u> Seite(n) Schutzansprüche <li style="padding-left: 20px;"><u>5</u> Anzahl Schutzansprüche 3. <u>1</u> Anzahl Figuren 4. <u> </u> Abschrift(en) der Voranmeldung(en) bei Priorität 5. <u> </u> Abschrift der Voranmeldung bei Abzweigung 6. <u> </u> Vertretervollmacht 						

- 7. _____ Übersetzung(en)
- 8. _____ Sequenzprotokoll nach ST.26
- 9. _____ Sonstiges

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Bearbeiter (1)

(12) Unterschrift

(13) Funktion des Bearbeiters



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	202241055209
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/09/2022
APPLICANT NAME	1 . Dr. Dindigala Raju 2 . Mr. Vinayak Kishan Nirmale 3 . Dr. C. Siva Sankar 4 . Mrs. N. Jeebaratnam 5 . Dr. Durgaprasad Navulla 6 . Dr. V. Kusuma Kumari 7 . Mr. Aadooru Suman
TITLE OF INVENTION	SYSTEM AND METHOD FOR LEARNING ALPHABETIC AND MATHEMATICAL EXPRESSIONS USING A DIGITAL ASSISTANCE
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/10/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

REPUBLIC OF SOUTH AFRICA

REGISTER OF PATENTS

PATENTS ACT, 1978

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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71	Assignee(s):			Date registered	
72	Full name(s) of inventor(s):				
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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					
Address of applicant(s)/patentee(s):					
Department of Electronics and Communication Engineering, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of Mathematics, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of Zoology, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of Mathematics, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of Mathematics, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of CSE, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of CSE, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, Odisha, 752050 INDIA Department of Mechanical Engineering, Centurion University of Technology and Management, Ramchandrapur, Jatni, Khurda, 752050, Odisha, INDIA					

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
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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.





Application Details

APPLICATION NUMBER	202211065898
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/11/2022
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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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E-MAIL (UPDATED Online)	
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 testimony whereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 28th day of September 2022



A handwritten signature in black ink, appearing to be 'S. D. H.', written over a dotted line.

Registrar of Patents



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 Government of India

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Application Details

APPLICATION NUMBER	202241073743
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/12/2022
APPLICANT NAME	1 . Dr. N. Narasimhulu 2 . Dr. Nageshwar Rao 3 . Dr. Saidulu Inamanamelluri 4 . Mrs. Badigenchala Shravani 5 . Dr. Jyoti Prasad Patra 6 . Dr. Pritesh Ramanlal Gugale 7 . Mr. Pathak Yogesh Arjun 8 . Dr. Pasupuleti Subrahmanya Ranjit 9 . Dr. Saubhagyalaxmi Singh 10 . Mr. R. Jeeva 11 . Dr. U. Urathal Alias Sri Swathiga 12 . Dr. V. Sasikala
TITLE OF INVENTION	IOT BASED ELECTRIC VEHICLE CONTROL SYSTEMS IN SMART CITIES
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	cldcresearch@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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

<p>(51) International classification :G06F0016290000, G06F0021570000, G16H0070600000, G06Q0050220000, G06F0030200000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Prafulla Kumar Panda Address of Applicant :Associate Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, Pin Code:761211 Gajapati -----</p> <p>2)Dr. M. L. Narasimham 3)Prof. (Dr.) L. V. Murali Krishna 4)Prof. Sovan Sankalp 5)Dr. Bibhuti Bhusan Sahoo 6)Dr. Rajib Kumar Majhi 7)Dr. Smruti Rekha Sahoo 8)Dr. Rahul Adhikary 9)Dr. Abinash Mohanta 10)Dr. Arpan Pradhan 11)Dr. Chitaranjan Dalai 12)Dr. Aparupa Pani 13)Dr. Monalisa Mallick</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Prafulla Kumar Panda Address of Applicant :Associate Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, Pin Code:761211 Gajapati -----</p> <p>2)Dr. M. L. Narasimham Address of Applicant :Academic Advisor, University College of Engineering, Kakinada University College of Engineering, Kakinada, Andhra Pradesh, Pin Code: 500072. Kakinada -----</p> <p>3)Prof. (Dr.) L. V. Murali Krishna Address of Applicant :Dr. Raja Ramanna Distinguished Fellow, DRDO, Adjunct Professor AIT, Bangkok and Director R&D, JNTUH, Hyderabad, Pin Code: 500085 Hyderabad -----</p> <p>4)Prof. Sovan Sankalp Address of Applicant :Assistant Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, Pin Code: 761211 Gajapati -----</p> <p>5)Dr. Bibhuti Bhusan Sahoo Address of Applicant :Assistant Professor of Agricultural Engineering, Centurion University of Technology and Management, Odisha, Pin Code: 761211 Gajapati -----</p> <p>6)Dr. Rajib Kumar Majhi Address of Applicant :Assistant Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, Pin Code: 761211 Gajapati -----</p> <p>7)Dr. Smruti Rekha Sahoo Address of Applicant :Assistant Professor in Department of Geology, Fakir Mohan University, Balasore, Odisha, Pin Code: 756089 Balasore -----</p> <p>8)Dr. Rahul Adhikary Address of Applicant :Associate Professor, Department of Soil Science and Agriculture chemistry, MSSSoA, Centurion University of Technology and Management, Odisha, Pin Code:761211 Gajapati -----</p> <p>9)Dr. Abinash Mohanta Address of Applicant :Assistant Professor, Vellore Institute of Technology, Vellore, Tamil Nadu, Pin Code: 632014 Vellore -----</p> <p>10)Dr. Arpan Pradhan Address of Applicant :Assistant Professor, CHRIST (Deemed to be University), School of Engineering and Technology, Bangalore Kengeri Campus, Kanmanike, Kumbalgodu, Mysore Road, Bangalore, Pin Code: 560074 Bangalore -----</p> <p>11)Dr. Chitaranjan Dalai Address of Applicant :Assistant Professor of Civil Engineering, Odisha University of Technology and Research, Bhubaneswar, Odisha, Pin Code: 751029 Bhubaneswar -----</p> <p>12)Dr. Aparupa Pani Address of Applicant :Assistant Professor of Civil Engineering, Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha, Pin Code: 751024 Bhubaneswar -----</p> <p>13)Dr. Monalisa Mallick Address of Applicant :Associate Professor of Civil Engineering, ST. MARTIN'S ENGINEERING COLLEGE, Dhulapally, Secunderabad, Telengana, Pin Code: 500100 Dhulapally -----</p>
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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

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

<p>(51) International classification :H04L0067520000, G06Q0050020000, G01C0021000000, G07C0005020000, B60W0040100000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr Prafulla Kumar Panda Address of Applicant :Associate Professor of Civil Engineering, Centurion University of Technology and Management, Odisha,761211, India -----</p> <p>---</p> <p>2)Prof Sovan Sankalp 3)Dr Bibhuti Bhusan Sahoo 4)Dr Rajib Kumar Majhi 5)Dr Rahul Adhikary 6)Mr. Bishnuprasad Dash 7)Dr Ramesh Panda 8)Mr. B. Bikram Narayan</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr Prafulla Kumar Panda Address of Applicant :Associate Professor of Civil Engineering, Centurion University of Technology and Management, Odisha,761211, India -----</p> <p>---</p> <p>2)Prof Sovan Sankalp Address of Applicant :Assistant Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, 761211, India -----</p> <p>---</p> <p>3)Dr Bibhuti Bhusan Sahoo Address of Applicant :Assistant Professor of Agricultural Engineering, Centurion University of Technology and Management, Odisha, 761211, India -----</p> <p>---</p> <p>4)Dr Rajib Kumar Majhi Address of Applicant :Assistant Professor of Civil Engineering, Centurion University of Technology and Management, Odisha, 761211, India -----</p> <p>---</p> <p>5)Dr Rahul Adhikary Address of Applicant :Associate Professor, Department of Soil science and Agriculture chemistry, MSSSoA, Centurion University of Technology and Management, Odisha, 761211, India -----</p> <p>6)Mr. Bishnuprasad Dash Address of Applicant :Assistant Professor, Department of Soil science and Agriculture chemistry, MSSSoA, Centurion University of Technology and Management, Odisha, 761211,India -----</p> <p>7)Dr Ramesh Panda Address of Applicant :Chief Scientist, We Grow Private Limited, Bhubaneswar, Odisha, 751024,India -----</p> <p>8)Mr. B. Bikram Narayan Address of Applicant :Assistant Professor of Civil Engineering, Centurion University of Technology and Management, 761211,India -----</p>
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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

(21) Application No.202241051178 A

(19) INDIA

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

(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 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 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

(21) Application No.202241069847 A

(19) INDIA

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

(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 : 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
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

(21) Application No.202241071402 A

(19) INDIA

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

(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/
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 :
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

(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

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



Cornelia Rudloff-Schäffer

München, 17.11.2022





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Department of Industrial Policy & Promotion,
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Government of India

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



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Application Details	
APPLICATION NUMBER	202241073393
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/12/2022
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FIELD OF INVENTION	BIOTECHNOLOGY
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

Application Status

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

<p>(51) International classification :A61K0031442200, A61P0027060000, A61K0031417800, A61P0009000000, A61K0009060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Centurion University of Technology and Management Address of Applicant :Ramchandrapur, P.O. – Jatni, Bhubaneswar 752050, Odisha, India Bhubaneswar ----</p> <p>-----</p> <p>2)NANDA, Ashirbad 3)SAHOO, Rudra Narayan 4)PATTNAIK, Gurudutta 5)KANHAR, Satish 6)PANDA, Brajabihari 7)SAMANTARAY, Biswajit 8)ROUT, Sagar 9)PANDA, Himansu Sekhor 10)BISWAL, Snehanjana 11)SAHOO, Smruti Smaranika 12)PRIYANKA, Kumari 13)PRIYADARSHINI, Priyanka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)NANDA, Ashirbad Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>2)SAHOO, Rudra Narayan Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>3)PATTNAIK, Gurudutta Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>4)KANHAR, Satish Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>5)PANDA, Brajabihari Address of Applicant :School of Pharmaceutical Sciences, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar 751003, Odisha, India Bhubaneswar -----</p> <p>6)SAMANTARAY, Biswajit Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>7)ROUT, Sagar Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>8)PANDA, Himansu Sekhor Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>9)BISWAL, Snehanjana Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>10)SAHOO, Smruti Smaranika Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>11)PRIYANKA, Kumari Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p> <p>12)PRIYADARSHINI, Priyanka Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar 752050, Odisha, India Bhubaneswar -----</p>
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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

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

(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
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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

(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/
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(87) International Publication No : NA

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

(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
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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

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

(61) Patent of Addition to Application Number :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 borivillanum consisting of water extractable easily water-soluble polysaccharides.

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

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(21) Application No.202121051168 A

(19) INDIA

(22) Date of filing of Application :09/11/2021

(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 CRYSTALLIZATION

<p>(51) International classification :A61K0009200000, A61K0031536000, A61K0009140000, A61K0009500000, C07D0265180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Sachinkumar Patil Address of Applicant :Ashokrao Mane College of Pharmacy Pethvadgaon Kolhapur -----</p> <p>2)Dr Shubhangi Sutar 3)Dr. Sandip Bandgar 4)Dr Amulyaratna Behera 5)Dr. Kuldeep Ramteke Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Sachinkumar Patil Address of Applicant :Ashokrao Mane College of Pharmacy Pethvadgaon Kolhapur -----</p> <p>2)Dr Shubhangi Sutar Address of Applicant :Shri Balasaheb Mane Shikshan Prasarak Mandal Ambap's Ashokrao Mane College of Pharmacy Pethvadgaon -----</p> <p>3)Dr. Sandip Bandgar Address of Applicant :Shri Balasaheb Mane Shikshan Prasarak Mandal Ambap's Ashokrao Mane College of Pharmacy Pethvadgaon -----</p> <p>4)Dr Amulyaratna Behera Address of Applicant :School of Pharmacy and Life Sciences Centurion University of Technology and Management, Bhubaneswar -----</p> <p>5)Dr. Kuldeep Ramteke Address of Applicant :Shivajirao Pawar College of Pharmacy, Pachegaon -----</p>
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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

(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

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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

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

<p>(51) International classification :C12Q0001688600, C12Q0001686000, C12Q0001680600, A61K0031506000, C12Q0001680900</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.Ashish Kumar Sarangi Address of Applicant :Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>2)Dr.Rudra Narayan Sahoo</p> <p>3)Dr.Gurudutta Pattnaik</p> <p>4)Dr.Md Sajid Ali</p> <p>5)Dr.Nawazish Alam</p> <p>6)Dr.Sarfraz Ahmad</p> <p>7)Dr.Ranjan Kumar Mohapatra</p> <p>8)Dr.Sovan Pattanaik</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.Ashish Kumar Sarangi Address of Applicant :Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>2)Dr.Rudra Narayan Sahoo Address of Applicant :Assistant Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha, India. Pin Code:752050 -----</p> <p>3)Dr.Gurudutta Pattnaik Address of Applicant :Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Khordha, Odisha, India. Pin Code:752050 -----</p> <p>4)Dr.Md Sajid Ali Address of Applicant :Assistant Professor, Department of Pharmaceutics, College of Pharmacy, Jazan University, Jazan, Kingdom of Saudi Arabia. Postal Code:45142 -----</p> <p>5)Dr.Nawazish Alam Address of Applicant :Assistant Professor, Department of Pharmacy Practice, College of Pharmacy, Jazan University, Jazan, Kingdom of Saudi Arabia. Postal Code:45142 -----</p> <p>6)Dr.Sarfraz Ahmad Address of Applicant :Lecturer, Department of Pharmacy Practice, College of Pharmacy, Jazan University, Jazan, Kingdom of Saudi Arabia. Postal Code:45142 - -----</p> <p>7)Dr.Ranjan Kumar Mohapatra Address of Applicant :Department of Chemistry, Government College of Engineering, Keonjhar, Odisha, India. Pin Code:758002 -----</p> <p>8)Dr.Sovan Pattanaik Address of Applicant :School of Pharmaceutical Sciences, Siksha O Anusandhan Deemed to be University, Kalinga Nagar, Bhubaneswar, Odisha, India. Pin Code: 751003 -----</p>
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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

(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
Filing Date :NA

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

(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 :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 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,
Ministry of Commerce & Industry,
Government of India

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



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

Application Details

APPLICATION NUMBER	202231074077
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/12/2022
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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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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

Application Status

(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
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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

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

<p>(51) International classification :G16H0010600000, G16H0050200000, G16H0040670000, G16H0020100000, C12Q0001686900</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Ashish Kumar Sarangi Address of Applicant :Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>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 Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Ashish Kumar Sarangi Address of Applicant :Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>2)Dr.Alok Ranjan Sahu Address of Applicant :Assistant Professor in Botany, Vikash Degree College, Barahaguda Canal Chowk, Bargarh, Odisha, India. Pin Code:768040 -----</p> <p>3)Dr.Rudra Narayan Sahoo Address of Applicant :Assistant Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha, India. Pin Code:752050 -----</p> <p>4)Dr.Bhabani Sankar Satapathy Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India. Pin Code:751003 -----</p> <p>5)Dr.Ranjan Kumar Sahoo Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Jatni, Bhubaneswar, Khurda, Odisha, India. Pin Code:752050 -----</p> <p>6)Mr.Durga Prasad Mishra Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, School of Pharmacy, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>7)Mr.Swarnajeet Tripathy Address of Applicant :Assistant Professor, Department of Pharmaceutical Analysis and Quality Assurance, School of Pharmacy, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>8)Mrs.Binapani Barik Address of Applicant :Assistant Professor, School of Pharmacy, ARKA JAIN University, Gamharia, Seraikela kharsawan, Jharkhand, India. Pin Code:832108 -----</p> <p>9)Mr.Sanjib Kumar Naik Address of Applicant :Assistant Professor, Department of Information Technology, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>10)Miss.Rasmita Dash Address of Applicant :Ph.D. Research Scholar, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India. Pin Code:751003 -----</p>
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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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TITLE OF INVENTION	A biomimetic nanoparticle for synergistic anti-infective therapy
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PRIORITY DATE	
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PUBLICATION DATE (U/S 11A)	30/12/2022

Application Status

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF BOSWELIC 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
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(57) Abstract :

A method for development and evaluation of boswellic 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, erythrocyte sedimentation rate (ESR), stiffness, additional use of NSAID, side effects and tolerance.

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

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

<p>(51) International classification :A01C0001000000, A01G0031000000, B04B0005040000, A01C0001060000, A01G0022000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. G Venkata karthik kumar Reddy Address of Applicant :Assistant Professor The Oxford college of Pharmacy , Begur Road , Hongasandra Bangalore 560068, Karnataka, India ----- 2)Dr. Prabitha P. 3)Dr. A. Muthukumar 4)Ms. Shailaja P Desai 5)Ms. Ashwini Suresh Patil 6)Mr. Soumitra Tiwari 7)Mr. Guruprasad V Sutar 8)Mr. Vinod Kumar Singh 9)Dr. Sachin Tyagi 10)Mr. Debyan Bhattacharjee 11)Dr. Prashant Tiwari 12)Ms. Rasmita Jena Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. G Venkata karthik kumar Reddy Address of Applicant :Assistant Professor The Oxford college of Pharmacy , Begur Road , Hongasandra Bangalore 560068, Karnataka, India ----- 2)Dr. Prabitha P. Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Sarada Vilas College of Pharmacy, Krishnamurthy Puram, Mysuru-570004, Karnataka, India ----- 3)Dr. A. Muthukumar Address of Applicant :Associate Professor Department of Pharmacology Al-Ameen College of Pharmacy, Hosur Main Road, opp. Lalbagh Main Gate, Bengaluru-560027, Karnataka India ----- 4)Ms. Shailaja P Desai Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Annasaheb Dange College of Pharmacy, Dist. Sangli, Ashta-416301, Maharashtra, India India. ----- 5)Ms. Ashwini Suresh Patil Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Annasaheb Dange College of Pharmacy, Dist. Sangli, Ashta-416301, Maharashtra, India. ----- 6)Mr. Soumitra Tiwari Address of Applicant :Department of Food Processing and Technology, Atal Bihari Vajpayee University, Koni, 495009, Bilaspur , Chhattisgarh, India ----- 7)Mr. Guruprasad V Sutar Address of Applicant :Assistant Professor and HOD Department of Pharmacology Annasaheb Dange College of Pharmacy, Dist. Sangli, Ashta-416301, Maharashtra, India. ----- 8)Mr. Vinod Kumar Singh Address of Applicant :Research Scholar Integral University, Department of Pharmacy, Kursi Rd, Lucknow, Uttar Pradesh 226026 ----- 9)Dr. Sachin Tyagi Address of Applicant :Professor & Director School of Pharmacy Bharat Institute of technology, Meerut ,250103, Uttar Pradesh, India ----- 10)Mr. Debyan Bhattacharjee Address of Applicant :Assistant Professor, Department of Pharmacognosy Bapuji Pharmacy College, Shammur Road, S S Layout, Davangere- 577004, Karnataka ----- 11)Dr. Prashant Tiwari Address of Applicant :Assistant Professor Department of Pharmacology and Toxicology College of Pharmaceutical Sciences Dayananda Sagar University Bengaluru, Karnataka ----- 12)Ms. Rasmita Jena Address of Applicant :Assistant Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatani, Bhubaneswar, Odisha, 752050 -----</p>
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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

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

<p>(51) International classification :B22F0001000000, B82Y0005000000, A61K0039000000, C12N0015870000, B22F0009240000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Chandra Sekhara Rao Baru Address of Applicant :Professor & Principal, Department of Pharmaceutics, Chilkur Balaji College of Pharmacy, Aziz nagar, Hyderabad, Telangana, India, Pin-500075 -----</p> <p>2)Mrs. Jenifer</p> <p>3)Dr. Sharad Timaji Tajane</p> <p>4)Ms. Snehal Nagsen Chandanshive</p> <p>5)Mrs. S. Srilakshmi</p> <p>6)Mr. K. Vijaya Kishore</p> <p>7)Dr. K. Naga Raju</p> <p>8)Dr. Pratik Rajan Mungekar</p> <p>9)Mr. S.R. Bavaji</p> <p>10)Mr. Haragouri Mishra</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Chandra Sekhara Rao Baru Address of Applicant :Professor & Principal, Department of Pharmaceutics, Chilkur Balaji College of Pharmacy, Aziz nagar, Hyderabad, Telangana, India, Pin-500075 -----</p> <p>2)Mrs. Jenifer Address of Applicant :Researcher, Department of Zoology, Loyola College, Tamilnadu, India, Pincode- 600034 -----</p> <p>3)Dr. Sharad Timaji Tajane Address of Applicant :Department of Chemistry, Bhavan's College (Autonomous), Andheri (W), Mumbai, Maharashtra, India, Pincode:400058 -----</p> <p>4)Ms. Snehal Nagsen Chandanshive Address of Applicant :Near Gayatri Tatte Idli Hotel, Doddapet Cross, Kaipet, Davangere, Karnataka, India, Pincode: 577002 -----</p> <p>5)Mrs. S. Srilakshmi Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, School of Pharmaceutical Sciences and Technologies, JNTUK, Kakinada, Andhra Pradesh, India, Pincode: 533003 -----</p> <p>6)Mr. K. Vijaya Kishore Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, College of Pharmaceutical Sciences, Acharya Nagarjuna University, Andhra Pradesh, India, Pincode: 522001 -----</p> <p>7)Dr. K. Naga Raju Address of Applicant :Assistant Professor, Department of Pharmaceutical Analysis, Sir C R Reddy College of Pharmaceutical Sciences, Eluru, Andhra Pradesh, India, Pincode: 534007 -----</p> <p>8)Dr. Pratik Rajan Mungekar Address of Applicant :Professor & Global Educator, International Internship University, Mumbai, Maharashtra, India, Pincode: 400012 -----</p> <p>9)Mr. S.R. Bavaji Address of Applicant :Research Scholar, PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Race Course Road, Khaja Nagar, Tiruchirappalli Tamilnadu, India, Pincode: 620020 -----</p> <p>10)Mr. Haragouri Mishra Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Odisha, India, Pincode: 751009 -----</p>
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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

(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

(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 :NA
 Filing Date :NA

(87) International Publication No : NA

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

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

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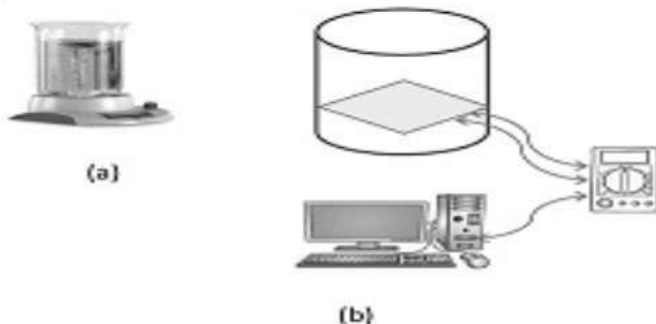
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(57) Abstract :
 Proposed invention Prepared using the green synthesis method, tungsten trioxide and metal oxide doped printed films were produced. The printed films' structural, surface, electrical, and gas sensing characteristics are investigated 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.

(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 :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
A 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 silver nanoparticle.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241071287 A

(19) INDIA

(22) Date of filing of Application :09/12/2022

(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 :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

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(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 :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 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.

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

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2022 100 602

Bezeichnung:

Ein System und Zusammensetzungen zur Behandlung und Vorbeugung von oxalatbedingten Krankheiten

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Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer



München, 23.03.2022

Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft.
Den aktuellen Rechtsstand und Schutzzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

(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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(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.

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

(54) Title of the invention : DRUG-RELEASING POLYELECTROLYTE COATING

(51) International classification :A61L0031160000, A61L0031100000, A61L0029160000, A61L0027540000, A61L0029080000

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

(87) International Publication No : NA

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

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Filing Date :NA

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(57) Abstract :

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.

No. of Pages : 25 No. of Claims : 5

(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//
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 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

(54) Title of the invention : NANO ENGINEERED POLYMERIC BIOMATERIALS FOR TARGETED DRUG DELIVERY SYSTEM FOR SYNERGISTIC BRAIN-TARGETING DELIVERY METHOD THERE OF

<p>(51) International classification :A61K0031198000, G16H0050200000, H04B0007060000, G06T0007000000, G06Q0099000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Rehana Anjum Address of Applicant :Professor, Department of Chemistry (Science and Humanities), Lords Institute of Engineering and Technology, Hyderabad, Telangana, India, Pin Code: 500091 Hyderabad -----</p> <p>2)Mrs. Arshiya Anjum 3)Mr. Khizar Syed 4)Dr. S. Dinesh 5)Mr. Deovrat Kumar 6)Dr. Nihar Ranjan Kar 7)Mr. Adabala Kumar Sanjay 8)Dr. Ashish Verma 9)Mr. Yagnambhatla Rajendra 10)Ms. Kulsoom Koser Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Rehana Anjum Address of Applicant :Professor, Department of Chemistry (Science and Humanities), Lords Institute of Engineering and Technology, Hyderabad, Telangana, India, Pin Code: 500091 Hyderabad -----</p> <p>2)Mrs. Arshiya Anjum Address of Applicant :Assistant Professor Department of Chemistry (Science and Humanities) Lords Institute of Engineering and Technology, Hyderabad, Telangana, India, Pin Code: 500091 Hyderabad -----</p> <p>3)Mr. Khizar Syed Address of Applicant :Assistant Professor, Department of Physics, Kohinoor Arts, Commerce and Science College, Khuldabad, Dist. Aurangabad, Maharashtra, India, Pin code: 431101 Aurangabad -----</p> <p>4)Dr. S. Dinesh Address of Applicant :Assistant Professor, Department of Physics, Sri Sairam Engineering College, Chennai, Tamilnadu, India, Pincode: 600044 Chennai -----</p> <p>5)Mr. Deovrat Kumar Address of Applicant :Associate Professor, Department of Pharmacy (Pharmaceutics), College of Pharmacy- Roorkee, Roorkee, Uttarakhand, India, Pincode: 247667 Roorkee -----</p> <p>6)Dr. Nihar Ranjan Kar Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India, Pincode: 756044 Balasore -----</p> <p>7)Mr. Adabala Kumar Sanjay Address of Applicant :Assistant Professor, Department of Mining, Godavari Institute of Engineering and Technology (A), Rajahmundry, Andhra Pradesh, India Pincode:533296 EAST GODAVARI -----</p> <p>8)Dr. Ashish Verma Address of Applicant :Professor, Department of Physics, Dr. Harisingh Gour Viswavidyalaya, Sagar, Madhya Pradesh, India, Pincode: 470003 Sagar -----</p> <p>9)Mr. Yagnambhatla Rajendra Address of Applicant :Associate Professor and HOD, Department of Pharmaceutical Chemistry, MAK College Of Pharmacy, Moinabad, Rangareddy, Telangana, India, Pincode: 501504 Ranga Reddy -----</p> <p>10)Ms. Kulsoom Koser Address of Applicant :Research Scholar, Department of Chemistry, Jamia Milla Islamia (A Central University), New Delhi, India, Pincode: 110025 New Delhi -----</p>
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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

(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//
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 :
 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

(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 :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

A 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

(54) Title of the invention : MAKING AND ADMINISTERING DIETARY SUPPLEMENTS COMPRISING PHOTOCHEMICAL FORMULATIONS

<p>(51) International classification :A23L0033150000, A61K0031375000, A61K0033340000, A23L0033160000, A61K0033300000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Nihar Ranjan Kar Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India, Pincode: 756044 Balasore ----- 2)Dr. D. Nagarjuna Reddy 3)Dr. Nithiya Narayanan 4)Dr. Danesh Dinyar Chinoy 5)Dr. Meghasham Narayanrao Narule 6)Dr. Kalpana Gajjala 7)Mrs. Galipelly Sumitha 8)Mr. Yagnambhatla Rajendra 9)Dr. D. V. Lokeswar Reddy Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Nihar Ranjan Kar Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India, Pincode: 756044 Balasore ----- 2)Dr. D. Nagarjuna Reddy Address of Applicant :Associate Professor, Department of Chemistry, BEST INNOVATION UNIVERSITY, Gorantla, Sri SathyaSai (Dist), Andhra Pradesh, India, Pincode: 515231 ANANTAPUR ----- 3)Dr. Nithiya Narayanan Address of Applicant :Assistant Professor, Department of Chemistry, Muthayammal College of Arts and Science (Autonomous), (A unit of VANETRA group), Rasipuram, Namakkal, Tamil Nadu, India, Pincode: 637408 Namakkal ----- 4)Dr. Danesh Dinyar Chinoy Address of Applicant :Associate Professor, Sports Physiotherapy Department, School of Physiotherapy, D.Y. Patil Deemed to be University, Nerul, Navi Mumbai, Maharashtra, India, Pincode: 400706 Navi Mumbai ----- 5)Dr. Meghasham Narayanrao Narule Address of Applicant :Head and Assistant Professor, Department of Chemistry, Vidya Vikas Arts, Commerce & Science College, Samudrapur, Maharashtra, India, Pincode: 442305 Samudrapur ----- 6)Dr. Kalpana Gajjala Address of Applicant :Assistant Professor, Department of Pharmacognosy, RBVRR Women's College of Pharmacy, Barkatpura, Hyderabad, Telangana, India, Pincode: 500027 Hyderabad ----- 7)Mrs. Galipelly Sumitha Address of Applicant :Research Scholar, Department of Botany, Kakatiya University, Warangal, Telangana, India, Pincode: 506009 Warangal ----- 8)Mr. Yagnambhatla Rajendra Address of Applicant :Associate Professor and HOD, Department of Pharmaceutical Chemistry, MAK College Of Pharmacy, Moinabad, Rangareddy, Telangana, India, Pincode: 501504 Ranga Reddy ----- 9)Dr. D. V. Lokeswar Reddy Address of Applicant :Assistant Professor, Humanities and Social Sciences Department, JNTU College of Engineering, Pulivendula, Kadapa, Andhra Pradesh, India, Pincode: 516390 Kadapa -----</p>
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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

(54) Title of the invention : A FORMULATION BASED ON PYRIDINE DERIVATIVE AND PREPARATION METHOD THEREOF

(51) International classification :A01N004340000, C07D0495040000, C07D0215180000, A61K0031443900, C07D0401040000
 (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 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, Cl, 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

(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
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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 lesion 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

(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

<p>(51) International classification :G16H0010600000, G16H0050200000, H04L0067120000, G16H0070600000, H04W0012060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.H.Lilly Beaulah Address of Applicant :Professor and Head, Department of CSE, Mahendra College of Engineering, Salem, Tamil Nadu, India, Pin Code:636106 Salem -----</p> <p>2)Dr.G.Rajesh Chandra 3)Dr.K.Gowrishankar 4)Dr.M.Mary Jansirani 5)Dr.Ashish Verma 6)Dr.Nihar Ranjan Kar 7)Mr. Rama Krishna Yellapragada 8)Dr.Sangram Keshari Panda 9)Dr.A.V.Kishore Babu 10)Mr.Sudhir Kumar Sahu Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.H.Lilly Beaulah Address of Applicant :Professor and Head, Department of CSE, Mahendra College of Engineering, Salem, Tamil Nadu, India, Pin Code:636106 Salem -----</p> <p>2)Dr.G.Rajesh Chandra Address of Applicant :Professor, Department of CSE, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur District, Andhra Pradesh, India. Pin Code: 522017 Guntur -----</p> <p>3)Dr.K.Gowrishankar Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, AMET University, Kanathur, Tamil Nadu, India. Pin Code: 603112 Chennai ----</p> <p>4)Dr.M.Mary Jansirani Address of Applicant :Assistant Professor, PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy, Tamil Nadu, India. Pin Code:620002 Tiruchirappalli ----</p> <p>5)Dr.Ashish Verma Address of Applicant :Professor, Department of Physics, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh, India. Pin Code:470003 Sagar -----</p> <p>6)Dr.Nihar Ranjan Kar Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India. Pin Code:756044 Balasore -----</p> <p>7)Mr. Rama Krishna Yellapragada Address of Applicant :Assistant Professor, Department of CSE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, India, Pin Code: 522302 Guntur -----</p> <p>8)Dr.Sangram Keshari Panda Address of Applicant :Professor and Principal, Jeypore College of Pharmacy, Rondapalli, Jeypore, Koraput, Odisha, India. Pin Code:764002 Koraput -----</p> <p>9)Dr.A.V.Kishore Babu Address of Applicant :Associate Professor, Department of Pharmacy Practice, Bhaskar Pharmacy College, Hyderabad, Yenkapally, Moinabad, Hyderabad, Telangana, India. Pin Code:500075 Hyderabad -----</p> <p>10)Mr.Sudhir Kumar Sahu Address of Applicant :Assistant Professor, Department of Pharmaceuticals, The Pharmaceutical College, Samaleswari Vihar Tingipali, Barpali, Bargarh, Odisha, India. Pin Code:768029 Bargarh -----</p>
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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

(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 :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 :

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

(54) Title of the invention : A SENSOR BASED ON PHOTOCHEMICAL AND ELECTROCHEMICAL ASPECTS HAVING MICROFLUIDIC AND GREEN-CHEMISTRY APPLICATIONS

<p>(51) International classification :B01L000300000, B60W005000000, B01J002326000, B01J001912000, C07C002118000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. M. Charumathy Address of Applicant :Research Coordinator & Assistant Professor, PG & Research Department of Biochemistry, Marudhar Kesari Jain College for Women, ChinnakalluPalli, Vaniyambadi, Tamilnadu, India, Pincode: 635751 Vaniyambadi ----- 2)Dr. C. Pavithra 3)Mrs. Priya Sanjay Singh 4)Ms. M. Anchana 5)Dr. G. Raja 6)Dr. Nihar Ranjan Kar 7)Dr. Durga Madhab Mahapatra 8)Dr. Mahamuda Shaik 9)Dr. P. Sailaja 10)Mr. Yagnambhatla Rajendra Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. M. Charumathy Address of Applicant :Research Coordinator & Assistant Professor, PG & Research Department of Biochemistry, Marudhar Kesari Jain College for Women, ChinnakalluPalli, Vaniyambadi, Tamilnadu, India, Pincode: 635751 Vaniyambadi ----- 2)Dr. C. Pavithra Address of Applicant :Head & Assistant Professor, PG & Research Department of Physics, Marudhar Kesari Jain College for Women, Vaniyambadi, Thirupatur Dt., Tamilnadu, India, Pincode: 635 751 Vaniyambadi ----- 3)Mrs. Priya Sanjay Singh Address of Applicant :Research Scholar, Department of Chemistry, Jaipur National University, Jaipur, Rajasthan, India, Pincode: 302017 Jaipur ----- 4)Ms. M. Anchana Address of Applicant :Assistant Professor, Department of Physics, Marudhar Kesari Jain College for Women, Vaniyambadi, Chennai, Tamilnadu, India, Pincode: 635751 Vaniyambadi ----- 5)Dr. G. Raja Address of Applicant :Professor, Department of Chemistry, Paavai Engineering College (Autonomous), Pachal Post, Namakkal District, Tamilnadu, India Pincode: 637018 Namakkal - ----- 6)Dr. Nihar Ranjan Kar Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India, Pincode: 756044 Balasore ----- 7)Dr. Durga Madhab Mahapatra Address of Applicant :Assistant Professor (Selection Grade), Department of Chemical Engineering, Energy Cluster, School of Engineering, University of Petroleum and Energy Studies (UPES), Dehradun, Uttarakhand, India, Pincode: 248 007 Dehradun ----- 8)Dr. Mahamuda Shaik Address of Applicant :Associate Professor, Department of Engineering Physics, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur Dt., Andhra Pradesh, India, Pincode: 522302 Guntur ----- 9)Dr. P. Sailaja Address of Applicant :Assistant Professor, Department of Physics, G. Pulla Reddy Degree & PG College, Mehdiapatnam, Hyderabad, Telangana, India, Pincode: 500028 Assistant Professor, ----- 10)Mr. Yagnambhatla Rajendra Address of Applicant :Associate Professor and HOD, Department of Pharmaceutical Chemistry, MAK College Of Pharmacy, Moinabad, Rangareddy, Telangana, India, Pincode: 501504 Ranga Reddy -----</p>
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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

(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
 (61) Patent of Addition to Application Number :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

(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
Filing Date :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

(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
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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

(54) Title of the invention : EFFECTIVE HEART DISEASE PREDICTION USING HYBRID ARTIFICIAL NEURAL NETWORKS TECHNIQUES

<p>(51) International classification :G06N0003080000, G06N0003040000, A47J0043250000, G06K0009620000, C09J0163000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)ALEKHYA BANDI Address of Applicant :ASSISTANT PROFESSOR /ECE DEPARTMENT /VR SIDDHARTHA ENGINEERING COLLEGE/ VIJAYAWADA/KANURU/520007 ----- --</p> <p>-----</p> <p>2)J. MRUDULA 3)S JYOTHIRMAYE 4)B. SUNEETHA 5)DR. NAMDEV VASANT TELORE 6)DR. T. ARUNKUMAR 7)G.APARNA 8)DR CHITLURI NARASIMHA RAO 9)HRUDESH PRIYADARSAN SAHOO 10)RATHOD VINOD KUMAR 11)SATYABRATA JENA 12)YAGNAMBHATLA RAJENDRA</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)ALEKHYA BANDI Address of Applicant :ASSISTANT PROFESSOR /ECE DEPARTMENT /VR SIDDHARTHA ENGINEERING COLLEGE/ VIJAYAWADA/KANURU/520007 ----- --</p> <p>-----</p> <p>2)J. MRUDULA Address of Applicant :ASSOCIATE PROFESSOR, ECE DEPT., GEETHANJALI COLLEGE OF ENGG. AND TECH. HYDERABAD. -----</p> <p>3)S JYOTHIRMAYE Address of Applicant :ASSOCIATE PROFESSOR, ECE DEPARTMENT, GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, CHEERYAL (V), MEDCHAL, 501301 -----</p> <p>4)B. SUNEETHA Address of Applicant :ASSISTANT PROFESSOR, ECE, GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD,501301 -----</p> <p>5)DR. NAMDEV VASANT TELORE Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF GEOGRAPHY, RAJA SHRIPATRAO BHAGWANTRAO MAHAVIDYALAYA, AUNDH, TAL. KHATAV, DIST. SATARA 415510 -----</p> <p>6)DR. T. ARUNKUMAR Address of Applicant :ASSISTANT PROFESSOR/CHEMISTRY, SNS COLLEGE OF TECHNOLOGY, SATHY MAIN ROAD, COIMBATORE - 641035 -----</p> <p>7)G.APARNA Address of Applicant :GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, CHEERYAL, KEESARA, MEDCHAL, HYDERABAD -----</p> <p>8)DR CHITLURI NARASIMHA RAO Address of Applicant :LECTURER IN ZOOLOGY, GOVERNMENT COLLEGE FOR MEN (A), KADAPA, ANDHRA PRADESH, INDIA-516004. -----</p> <p>9)HRUDESH PRIYADARSAN SAHOO Address of Applicant :ASSISTANT PROFESSOR IN PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BALASORE,756044 -----</p> <p>-----</p> <p>10)RATHOD VINOD KUMAR Address of Applicant :STUDENT, DEPARTMENT OF PHARMACY, MAK COLLEGE OF PHARMACY, MOINABAD, TELANGANA, INDIA, 501504 -----</p> <p>11)SATYABRATA JENA Address of Applicant :ASSOCIATE PROFESSOR, BHASKAR PHARMACY COLLEGE, HYDERABAD, 500075 -----</p> <p>12)YAGNAMBHATLA RAJENDRA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICAL CHEMISTRY, MAK COLLEGE OF PHARMACY, MOINABAD, RANGAREDDY,501504, TS, INDIA -----</p>
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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.

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(21) Application No.202241026105 A

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(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 Filing Date :PCT// :01/01/1900

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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

(54) Title of the invention : THE DETECTION OF VARIED EEG PATTERN SIGNAL FOR CHRONIC MIGRAINE PATIENTS

<p>(51) International classification :A61B0005000000, A61P0025060000, A61B0005374000, A61B0005316000, A61B0005369000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA Filing Date :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. MAHESH KUMAR GUPTA Address of Applicant :DEAN, Department of Pharmacy, Career Point University, National Highway 52, Opp. Alaniya Mata ji Mandir, Kota, Rajasthan, India-324005. -----</p> <p>2)Mr. DEBASHIS PUROHIT 3)Ms. SUBHASHREE CHOUDHURY 4)Ms. MAZMA BEGUM 5)Dr. LUBHAN SINGH 6)Mrs. SHAINDA LAEEQ 7)Dr. MANISH PATHAK 8)Mr. BISWAJEET ACHARYA 9)Dr. KETAN VINAYAKRAO HATWARE 10)Dr. UMAMA TEHREEM</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. MAHESH KUMAR GUPTA Address of Applicant :DEAN, Department of Pharmacy, Career Point University, National Highway 52, Opp. Alaniya Mata ji Mandir, Kota, Rajasthan, India-324005. -----</p> <p>2)Mr. DEBASHIS PUROHIT Address of Applicant :Research Scholar, Department of Pharmacy, Career Point University, National Highway 52, Opp. Alaniya Mata ji Mandir, Kota, Rajasthan, India- 324005. -----</p> <p>3)Ms. SUBHASHREE CHOUDHURY Address of Applicant :Assistant Professor, Department of Pharmaceutical Technology, Jeypore College of Pharmacy, Jeypore, Koraput, Odisha, India- 764002. -----</p> <p>4)Ms. MAZMA BEGUM Address of Applicant :Assistant Professor, Department of Pharmaceutical Analysis and Quality Assurance, Jeypore College of Pharmacy, Jeypore, Koraput, Odisha, India- 764002. -----</p> <p>5)Dr. LUBHAN SINGH Address of Applicant :Professor, Department of Pharmacology, Kharvel Subharti College of Pharmacy, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India- 250005. ----</p> <p>6)Mrs. SHAINDA LAEEQ Address of Applicant :Assistant Professor, Department of Pharmacy, Maharana Pratap College of Pharmacy, Kothi, Mandhana, Kanpur, Kanpur, Uttar Pradesh, India-209217. -----</p> <p>7)Dr. MANISH PATHAK Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, Kharvel Subharti College of Pharmacy, Swami Vivekananda Subharti University, Meerut, Uttar Pradesh, India-250005. -----</p> <p>8)Mr. BISWAJEET ACHARYA Address of Applicant :Assistant Professor, Department of Pharmacology, School of Pharmacy, Centurion University of Technology and Management, Balangir, Odisha, India-767001. -----</p> <p>9)Dr. KETAN VINAYAKRAO HATWARE Address of Applicant :Assistant Professor, Department of Pharmacology, SVKM'S NMIMS Deemed to be University, School of Pharmacy and Technology Management, Shirpur Campus, Shirpur, Maharashtra, India-425405. -----</p> <p>10)Dr. UMAMA TEHREEM Address of Applicant :Assistant Professor, Department of Pharmacy Practice, Anwarul Uloom College of Pharmacy, New Mallepally, Hyderabad, Telangana, India- 500001. -----</p>
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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

(54) Title of the invention : FORMULATION AND CHARACTERIZATION OF TRANSDERMAL PATCHES OF AMLODIPINE BESYLATE USING OLIVE OIL AS THE NATURAL PERMEATION ENHANCER

<p>(51) International classification :A61K000900000, A61K0031442200, A61K0009700000, A61K0008920000, A61K0031441800</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. DIBYA LOCHAN MOHANTY Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS ANURAG UNIVERSTIY, VENKATAPUR, MEDCHAL, HYDERABAD, TELANGANA, PIN-500088. -----</p> <p>2)Mr. DEEPANKAR RATH</p> <p>3)Ms. RUPALI RUPASMITA</p> <p>4)Miss. PALLISHREE BHUKTA</p> <p>5)Miss. SUCHARITA BABU</p> <p>6)ASWINI KUMAR SETHI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. DIBYA LOCHAN MOHANTY Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS ANURAG UNIVERSTIY, VENKATAPUR, MEDCHAL, HYDERABAD, TELANGANA, PIN-500088. -----</p> <p>2)Dr. VASUDHA BAKSHI Address of Applicant :PROFESSOR, DEPARTMENT OF PHARMACEUTICS ANURAG UNIVERSITY, VENKATAPUR, MEDCHAL, HYDERABAD, PIN-500088 -----</p> <p>3)Mr. DEEPANKAR RATH Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 -----</p> <p>4)Ms. RUPALI RUPASMITA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 -----</p> <p>5)Miss. PALLISHREE BHUKTA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 -----</p> <p>6)Miss. SUCHARITA BABU Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 -----</p> <p>7)ASWINI KUMAR SETHI Address of Applicant :ASSISTANT PROFESSOR, JEYPORE COLLEGE OF PHARMACY, RONDAPALLI, KORAPUT, JEYPORE, ODISHA, 764002 -----</p>
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(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



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Government of India

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



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Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/12/2022
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TITLE OF INVENTION	A hybrid nanosensor based on novel fluorescent iron oxide nanoparticles for highly selective determination of Hg ²⁺ ions in environmental samples
FIELD OF INVENTION	MECHANICAL ENGINEERING
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Application Details

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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>)



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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



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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	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

(54) Title of the invention : Real time Crop Recommendation Framework based on Soil Quality and Environmental Condition Using Machine Learning Model.

<p>(51) International classification :G06N0020000000, G06K0009620000, G06N0020100000, G06Q0050020000, G06Q0030060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Mamata Garanayak Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Bhubaneswar, Odisha, India. mamata.garanayak@cutm.ac.in Bhubaneswar ----- 2)Dr. Shreela Dash 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</p> <p>(72)Name of Inventor : 1)Dr. Mamata Garanayak Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Bhubaneswar, Odisha, India. mamata.garanayak@cutm.ac.in Bhubaneswar ----- 2)Dr. Shreela Dash Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Bhubaneswar, Odisha, India Bhubaneswar ----- 3)Suvendu Kumar Nayak Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Bhubaneswar, Odisha, India Bhubaneswar ----- 4)Dr. Dayal Kumar Behera Address of Applicant :Assistant Professor, Silicon Institute of Technology, Bhubaneswar Patia ----- 5)Raj Kumar Mohanta Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Bhubaneswar, Odisha, India Bhubaneswar ----- 6)Sunil Kumar Mohapatra Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Bhubaneswar - 752050, Odisha, India Bhubaneswar ----- 7)Dr. Subhra Swetanisha Address of Applicant :Assistant Professor, Trident Academy of Technology, Bhubaneswar Bhubaneswar -----</p>
--	--

(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

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(<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
71	Full name(s) of applicant(s)/Patentee(s):				
<p>Mr.Satyabrata Jena Associate Professor, Bhaskar Pharmacy College (JNTUH-Hyderabad), Yenkapally, Moinabad, Hyderabad, Telangana, 500075, India</p> <p>Dr.Niranjan Panda Professor and HOD, Department of Pharmaceutics, Anwarul Uloom College of Pharmacy, Osmania University, New Mallepally, Hyderabad, Telangana, 500001, India</p> <p>Dr.Satyajit Panda Assistant Professor, Department of Pharmaceutics, Institute of Pharmacy and Technology, Salipur, (Biju Patnaik University of Technology), Cuttack, Odisha, 754202, India</p> <p>Dr.Kanchana N.Dussa Professor and Head, Department of Pharmacy Practice, Anwarul Uloom College of Pharmacy, Osmania University, New Mallepally, Hyderabad, Telangana, 500001, India</p> <p>Dr.Himansu Bhusan Samal Associate Professor, Department of Pharmaceutics, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramchandrapur, Jatni, Bhubaneswar, Odisha, 752050, India</p> <p>Mr.Sribatsa Lanchhana Dash Associate Professor, Department of Pharmaceutical Chemistry, Maharana Pratap College of Pharmacy, Kothi, Mandhana, Kanpur, Uttar Pradesh, (Dr. A.P.J. Abdul Kalam Technical University), Kanpur, Uttar Pradesh, 209217, India</p> <p>Dr.Bibhuti Bhusana Panigrahi Principal and Professor, Department of Pharmaceutics, Om Sai Institute of Paramedical Sciences (Biju Patnaik University of Technology), Dukura, Mayurbhanj, Odisha, 757075, India</p> <p>Mr.Tankadhar Mishra Assistant Professor, Pharmacognosy, The Pharmaceutical College, Samaleswari vihar, Tingipali, Barpali, (Biju Patnaik University of Technology), Bargarh District, Odisha, 768029, India</p> <p>Dr.Goje Arjun Associate Professor and HOD, Teegala Ram Reddy College of Pharmacy (JNTUH-Hyderabad), Meerpet, Saroornagar, Hyderabad, Telangana, 500097, India</p> <p>Mr.Sourab Ghosh Head Quality Assurance, Ace Healthcare Ltd, No: 72/A, Illimba-Kandana Road, Kandana, Horana, Sri Lanka</p>					
71	Applicant substituted:			Date registered	
71	Assignee(s):			Date registered	
72	Full name(s) of inventor(s):				
<p>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</p>					
Priority claimed:		Country	Number	Date	
54	Title of invention				
A DRUG DELIVERY SYSTEM BY USING ARTIFICIAL INTELLIGENCE INTERFACES FOR PREPARING MICROEMULSIONS TO ENHANCE BIOAVAILABILITY					
Address of applicant(s)/patentee(s):					
<p>Associate Professor, Bhaskar Pharmacy College (JNTUH-Hyderabad), Yenkapally, Moinabad, Hyderabad, Telangana, 500075 INDIA</p> <p>Professor and HOD, Department of Pharmaceutics, Anwarul Uloom College of Pharmacy, Osmania University, New Mallepally, Hyderabad, Telangana, 500001 INDIA</p> <p>Assistant Professor, Department of Pharmaceutics, Institute of Pharmacy and Technology, Salipur, (Biju Patnaik University of Technology), Cuttack, Odisha, 754202</p>					

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SRI LANKA

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
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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

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Benachrichtigung über den Erhalt einer Gebrauchsmusteranmeldung:

Dokumenten Referenz-Nr. (DRN): 2022122813184100DE

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

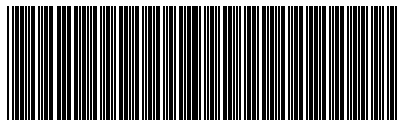
Seriennummer: 18195984972387930518499884007315914216

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



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



Folgende Warnungen sind bei der Validierung aufgetreten:

[Anmelder: Die zusätzliche Adresszeile sollte die Länge von 100 Zeichen nicht überschreiten.,
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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

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



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 DPMAreger	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

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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 Siringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten
- [51] **IPC-Hauptklasse:** C12Q 1/04 (2006.01)
- [51] **IPC-Nebeklasse(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 PartGmbH, 50672 Köln, DE
- [-----] **Zustellanschrift:** Hohendorf Kierdorf Patentanwälte PartGmbH, 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



POSTANSCHRIFT Deutsches Patent- und Markenamt • 80297 München

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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
- Sequenzprotokoll als elektronisches Dokument

Wichtige Hinweise:

Wird die Anmelde- oder Rechercheantragsgebühr nicht innerhalb von 3 Monaten nach Einreichung der Anmeldung bzw. nach Stellung des Antrags gezahlt, so gilt die Anmeldung bzw. der Rechercheantrag als zurückgenommen (§ 6 PatKostG). Bitte beachten Sie, dass außer der Empfangsbestätigung keine weitere Gebührenbenachrichtigung versandt wird.

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 Recherchantrag erst dann zu stellen, wenn feststeht, dass der Eintragung keine Hindernisse im Wege stehen.

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(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//
 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 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.

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(21) Application No.202311002700 A

(19) INDIA

(22) Date of filing of Application :13/01/2023

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

(54) Title of the invention : A method for preparing nanogels for cancer drug delivery

(51) International classification :A61P003500000, A61K005104000, A61K0009060000, A61K004900000, A61K0033243000

(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 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

(54) Title of the invention : A SYSTEM FOR EARLY-STAGE DISEASE DETECTION AND HIGH-RISK PATIENT IDENTIFICATION AND WORKING METHOD THEREOF

<p>(51) International classification :G16H0010600000, G16H0040670000, A61B0005000000, G16H0010650000, G06F0021310000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.M.Sri Ramachandra Address of Applicant :Associate Professor, Head of Department, Department of Pharmacology, Bhaskar Pharmacy College, Moinabad, Hyderabad, Telangana, India. Pin Code:500075 -----</p> <p>2)Mr.Sidhartha Parida 3)Prof. (Dr.) Arnabadiya Mohanty 4)Mr.Pragati Ranjan Satpathy 5)Dr.Mihir Kumar Kar 6)Dr.Shaktiprasad Pradhan 7)Dr.Kanchana N.Dussa 8)Dr.Prithwiraj Mohapatra 9)Mr.Suhas Suresh Agey 10)Dr.Goje Arjun Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.M.Sri Ramachandra Address of Applicant :Associate Professor, Head of Department, Department of Pharmacology, Bhaskar Pharmacy College, Moinabad, Hyderabad, Telangana, India. Pin Code:500075 -----</p> <p>2)Mr.Sidhartha Parida Address of Applicant :Assistant Professor, Department of Pharmaceutics, School of Pharmacy, Centurion University of Technology and Management, Gopalpur, Balasore, Odisha, India. Pin Code:756044 -----</p> <p>3)Prof. (Dr.) Arnabadiya Mohanty Address of Applicant :Principal and Professor, The Pharmaceutical College, Barpali, Samaleswari Vihar, Tingipali, Barpali, Bargarh District, Odisha, India. Pin Code:768029 -----</p> <p>4)Mr.Pragati Ranjan Satpathy Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis, Sri Jayadev College of Pharmaceutical Sciences, Naharkanta, Bhubaneswar, Odisha, India. Pin Code:752101 -----</p> <p>5)Dr.Mihir Kumar Kar Address of Applicant :Professor, Department of Pharmacology, Sri Jayadev College of Pharmaceutical Sciences, Naharkanta, Bhubaneswar, Odisha, India. Pin Code:752101 -----</p> <p>6)Dr.Shaktiprasad Pradhan Address of Applicant :Associate Professor, Department of Pharmacology, School of Pharmacy, Sai Nath University, Ranchi, Jharkhand, India. Pin Code:835219 -----</p> <p>7)Dr.Kanchana N.Dussa Address of Applicant :Professor and Head, Department of Pharmacy Practice, Anwarul Uloom College of Pharmacy, Osmania University, Hyderabad, Telangana, India. Pin Code:500001 ----</p> <p>8)Dr.Prithwiraj Mohapatra Address of Applicant :Professor, Department of Pharmacognosy, Jeypore Collage of Pharmacy, Biju Patnaik University of Technology, Jeypore, Koraput, Odisha, India. Pin Code:764002 -----</p> <p>9)Mr.Suhas Suresh Agey Address of Applicant :Assistant Professor, Department of Pharmacology, SVKM'S NMIMS Deemed to Be University, School of Pharmacy and Technology Management, Shirpur, Maharashtra, India. Pin Code:425405 -----</p> <p>10)Dr.Goje Arjun Address of Applicant :Associate Professor and HOD, Teegala Ram Reddy College of Pharmacy, Meerpet, Saroornagar, Rangareddy District, Hyderabad, Telangana, India. Pin Code:500097 -----</p>
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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

(54) Title of the invention : A SYSTEM PROVIDED FOR NANOROBOTIC ARM TO OPERATE IN THE ENDOSCOPY AND WORKING METHOD THEREOF

<p>(51) International classification :A61B0001000000, A61B0001040000, B25J0018000000, A61B0001060000, A61B0017000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Ashish Kumar Sarangi Address of Applicant :Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>2)Dr.Prasanta Kumar Biswal 3)Dr.Rudra Narayan Sahoo 4)Dr.Bhabani Sankar Satapathy 5)Dr.Bipin Bihari Panda 6)Mr.Sobhabikash Swain 7)Mrs.Sucheta Moharana 8)Ms.Preeti Pandey 9)Mr.Ankit Singh 10)Ms.Namrata Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Ashish Kumar Sarangi Address of Applicant :Assistant Professor, Department of Chemistry, School of Applied Science, Centurion University of Technology and Management, Balangir, Odisha, India. Pin Code:767001 -----</p> <p>2)Dr.Prasanta Kumar Biswal Address of Applicant :Professor and H.O.D.in Pharmaceutics, Gayatri College of Pharmacy, Sambalpur, Odisha, India. Pin Code:768200 -----</p> <p>3)Dr.Rudra Narayan Sahoo Address of Applicant :Assistant Professor, Department of Pharmaceutics, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India. Pin Code:751003 -----</p> <p>4)Dr.Bhabani Sankar Satapathy Address of Applicant :Assistant Professor, Department of Pharmaceutics, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India. Pin Code:751003 -----</p> <p>5)Dr.Bipin Bihari Panda Address of Applicant :Professor and H.O.D.in Pharmacology, Gayatri College of Pharmacy, Sambalpur, Odisha, India. Pin Code:768200 -----</p> <p>6)Mr.Sobhabikash Swain Address of Applicant :Vice-Principal, Associate Professor in Pharmachemistry, Dadhichi College of Pharmacy, Cuttack, Odisha, India. Pin Code:754002 -----</p> <p>7)Mrs.Sucheta Moharana Address of Applicant :Associate Professor, Gayatri College of Pharmacy, Sambalpur, Odisha, India. Pin Code:768200 -----</p> <p>8)Ms.Preeti Pandey Address of Applicant :Assistant Professor, Department of Forensic Science, Lovely Professional University, Phagwara, Punjab, India. Pin Code:144411 -----</p> <p>9)Mr.Ankit Singh Address of Applicant :Assistant Professor, Department of Forensic Science, Galgotias University, Grater Noida, Uttar Pradesh, India. Pin Code:203201 -----</p> <p>10)Ms.Namrata Singh Address of Applicant :Assistant Professor, Department of Paramedical Sciences, IJAHSR, Integral University, Lucknow, Uttar Pradesh, India. Pin Code:226026 -----</p>
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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

(54) Title of the invention : A Phytoconstituent loaded nanogel formulation for the treatment of cancer

(51) International classification :A61P003500000, 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 imaging 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

(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 :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 :
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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Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 106 123

Bezeichnung:

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Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 24.11.2022



Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft.
Den aktuellen Rechtsstand und Schutzzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

(54) Title of the invention : TARGETING TUMOUR MICROENVIRONMENT WITH NANOPARTICLE-BASED DRUG DELIVERY SYSTEMS FOR CANCER IMMUNOTHERAPY RESISTANCE

<p>(51) International classification :A61P0035000000, A61K0039000000, G06N0003080000, A61B0005145000, A61K0047610000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Mr. SUBHA RANJAN DAS Address of Applicant :RESEARCH SCHOLAR, 1. DEPARTMENT OF MOLECULAR BIOLOGY, NATURAL SCIENCES, ARIEL UNIVERSITY, ARIEL 4070000, ISRAEL; 2. INSTITUTE FOR PERSONALIZED AND TRANSLATIONAL MEDICINE, ARIEL UNIVERSITY, ARIEL 4070000, ISRAEL -----</p> <p>2)Dr.G.VENKATA SUBBAIAH 3)Mrs. MEENAKSHI JAISWAL 4)KESHAV KUMAR K 5)Dr IRUMJAHAN NAZIR KHAN 6)SNEHA DILIP TIPUGADE 7)Dr K NITHYA 8)ANANT SANJAYRAO DESHPANDE 9)PUSHPENDRA KUMAR KURRE 10)MOHD ASIF SHAH 11)Mrs. ANIMA JENA 12)SATYABRATA JENA Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. SUBHA RANJAN DAS Address of Applicant :RESEARCH SCHOLAR, 1. DEPARTMENT OF MOLECULAR BIOLOGY, NATURAL SCIENCES, ARIEL UNIVERSITY, ARIEL 4070000, ISRAEL; 2. INSTITUTE FOR PERSONALIZED AND TRANSLATIONAL MEDICINE, ARIEL UNIVERSITY, ARIEL 4070000, ISRAEL -----</p> <p>2)Dr.G.VENKATA SUBBAIAH Address of Applicant :ACADEMIC CONSULTANT ZOOLOGY DEPARTMENT SRI VENKATESWARA UNIVERSITY TIRUPATI -----</p> <p>3)Mrs. MEENAKSHI JAISWAL Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACY, GURU GHASIDAS CENTRAL UNIVERSITY, KONI, BILASPUR - 495009, CHHATTISGARH, INDIA BILASPUR -----</p> <p>4)KESHAV KUMAR K Address of Applicant :ASSISTANT PROFESSOR OF MATHEMATICS , DEPARTMENT OF HUMANITIES AND MATHEMATICS, G.NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE (FOR WOMEN), HYDERABAD, 500 104 HYDERABAD -----</p> <p>5)Dr IRUMJAHAN NAZIR KHAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ZOOLOGY, SADGURU GADAGE MAHARAJ COLLEGE KARAD, VIDYANAGAR, KARAD, 415124. KARAD -----</p> <p>6)SNEHA DILIP TIPUGADE Address of Applicant :LECTURER, S D PATIL COLLEGE OF PHARMACY, URUN, ISLAMPUR 415409 ISLAMPUR -----</p> <p>7)Dr K NITHYA Address of Applicant :PROFESSOR SHRI INDRA GANESAN INSTITUTE OF MEDICAL SCIENCE, COLLEGE OF PHARMACY, MANIKANDAM, TRICHY. TRICHY -----</p> <p>8)ANANT SANJAYRAO DESHPANDE Address of Applicant :CHINTAMANI COLLEGE OF SCIENCE, POMBHURNA, DIST. CHANDRAPUR, M.S. 442918 POMBHURNA -----</p> <p>9)PUSHPENDRA KUMAR KURRE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF PHARMACY SHRI RAWATPURA SARKAR UNIVERSITY RAIPUR CHHATTISGARH PIN-492015 RAIPUR -----</p> <p>10)MOHD ASIF SHAH Address of Applicant :ADJUNCT FACULTY, SCHOOL OF BUSINESS, WOXSEN UNIVERSITY, KAMKOLE, SADASIVPET, HYDERABAD, TELANGANA, 502345, INDIA. HYDERABAD -----</p> <p>11)Mrs. ANIMA JENA Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOGENOSY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT,GOPALPUR BALASORE ODISHA, 756044 BALASORE -----</p> <p>12)SATYABRATA JENA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, BHASKAR PHARMACY COLLEGE, YENKAPALLY, MOINABAD, HYDERABAD-500075 HYDERABAD -----</p>
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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

(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

<p>(51) International classification :A61K0036889000, A61K0036530000, A61Q0019000000, A61Q0019080000, A61P0017000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Krishnaraju Venkatesan Address of Applicant :Associate Professor, Department of Pharmacology and Toxicology, College of Pharmacy, King Khalid University, Abha, KSA -----</p> <p>2)Mr. Bahadur Singh 3)Mr. Satendra Kumar 4)Dr. Nilesh Kumar 5)Mr. Rizwan ul Hasan 6)Mr. Mahesh Pandurang Bhosale 7)Ms. Azra Aisha 8)Dr. Nahlah Elkudssiah Ismail 9)Mrs. Annanya Gangopadhyay 10)Mr. Nageswar Panda 11)Dr Hemant Deokule 12)Ms. Shraddha Sainath Chitale</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Krishnaraju Venkatesan Address of Applicant :Associate Professor, Department of Pharmacology and Toxicology, College of Pharmacy, King Khalid University, Abha, KSA -----</p> <p>2)Mr. Bahadur Singh Address of Applicant :Research Scholar/Assistant Professor College Name: Department of Pharmacy, School of Medical & Allied Sciences, Galgotias University, Plot No. 2, Sector-17A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh, India -----</p> <p>3)Mr. Satendra Kumar Address of Applicant :Research Scholar/Assistant Professor Department of Pharmacy, School of Medical & Allied Sciences Galgotias University, Plot No. 2, Sector-17A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh, India. Pin Code: 201310 -----</p> <p>4)Dr. Nilesh Kumar Address of Applicant :Principal Praduman Singh College Of Pharmacy Phutahiya Sansarpur Basti Uttar Pradesh Pin code: 272001 -----</p> <p>5)Mr. Rizwan ul Hasan Address of Applicant :Associate Professor Era college of pharmacy Era University sarfarazganj Lucknow pin code:226003 -----</p> <p>6)Mr. Mahesh Pandurang Bhosale Address of Applicant :Assistant Professor, Dharmaraj Shaikshank Pratishthan's College of Pharmacy, Walki, AhmednagarState- Maharashtra, India -----</p> <p>7)Ms. Azra Aisha Address of Applicant :Associate Professor Era college of pharmacy era university sarfarazganj Lucknow Pin code: 226003 -----</p> <p>8)Dr. Nahlah Elkudssiah Ismail Address of Applicant :Council Member, Malaysian Academy of Pharmacy, Wisma MPS, 16-2, Jalan OP 1/5, 1-Puchong Business Park, Off Jalan Puchong, 47160 Puchong, Selangor, Malaysia -----</p> <p>9)Mrs. Annanya Gangopadhyay Address of Applicant :Assistant Professor, School of Pharmacy Centurion University of Technology and Management, 756044, Odisha, India -----</p> <p>10)Mr. Nageswar Panda Address of Applicant :Assistant Professor, School of Pharmacy Centurion University of Technology and Management, 756044 Odisha, India -----</p> <p>11)Dr Hemant Deokule Address of Applicant :Professor Delight College of Pharmacy Sharad Campus, Pimple-Jagtap Road, Koregaon Bhima, Tal-Shirur, Dist-Pune- 412216, Maharashtra, India -----</p> <p>12)Ms. Shraddha Sainath Chitale Address of Applicant :Academic Incharge N.D.Kasar college of Pharmacy Walki, Ahmednagar, Maharashtra, India -----</p>
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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

(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 :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 :
 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

(54) Title of the invention : MACHINE LEARNING BASED APPROACH FOR BUILDING CORPORATE REPUTATION THROUGH SOCIAL MEDIA MARKETING EFFORTS

(51) International classification :G06Q050000000, G06N002000000, G06Q0030020000, G06Q0010040000, G06N0003080000

(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 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

(51) International classification :G06N0003080000, G06N0003040000, G16H0050200000, G06T0011000000, A61B0006000000

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

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(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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TITLE OF INVENTION	FINANCIAL CREDIT MANAGEMENT SYSTEM ON E-COMMERCE USING MULTIDIMENSIONAL FRAMEWORK MODEL
FIELD OF INVENTION	COMPUTER SCIENCE
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Application Status

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017994 A

(19) INDIA

(22) Date of filing of Application :16/03/2023

(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/
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 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	Date of acceptance 2023-02-14
Date of expiry 2042-11-03	Date of grant 2023-03-29
Type of patent Complete	Status Granted
IPC Class A23K	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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(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//
 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 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

(54) Title of the invention : INNOVATIVE AND ALTERNATIVE OCULAR DRUG DELIVERY SYSTEM FOR INCREASED EFFICIENCY

<p>(51) International classification :A61F 090000, A61K 090000, A61P 270200, C08K 030400, G06F 074910</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Jitendra Gupta Address of Applicant :Associate Professor, Institute of Pharmaceutical Research, GLA University, Faculty Residence Block 10, Flat No. 404, GLA University, Mathura, Uttar Pradesh., India, Pin Code 281406 -----</p> <p>2)Dr Sachinkumar Dnyaneshwar Gunjal 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</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Jitendra Gupta Address of Applicant :Associate Professor, Institute of Pharmaceutical Research, GLA University, Faculty Residence Block 10, Flat No. 404, GLA University, Mathura, Uttar Pradesh., India, Pin Code 281406 -----</p> <p>2)Dr Sachinkumar Dnyaneshwar Gunjal Address of Applicant :Department of Pharmaceutics, Amrutvahini College of Pharmacy, Sangamner, Savitribai Phule Pune University, Maharashtra State, India. Pin-422605. -----</p> <p>3)Mr. Deepak Shrivastava Address of Applicant :Associate Professor Department of Pharmaceutical Chemistry, NMT GUJARATI COLLEGE OF PHARMACY INDORE, PU 4 SCHEME NO 54, Vijay nagar, Indore, Madhya Pradesh, India Pin code 452010 -----</p> <p>4)Ms. Swagatika Das Address of Applicant :Assistant professor Pharmacy, Centurion University of Technology and Management, Odisha, India Pin-756044 -----</p> <p>5)Dr Yella Sirisha Address of Applicant :Associate professor, Department of Pharmaceutics, Samskruti college of Pharmacy, kondapur, Ghatkesar, Medchal Malkajgiri, Telangana , INDIA- 501301. -----</p> <p>6)Dr Mohd Abdul Hadi Address of Applicant :Associate Professor Department of Pharmaceutics, Bhaskar Pharmacy College, Moinabad (M), Hyderabad, Telangana,India- 500075. -----</p> <p>7)Prof Chatlapelli kishore Address of Applicant :Assistant Professor, Department of Pharmaceutics Vaagdevi Institute of Pharmaceutical Sciences, Bollikunta, Warangal, Telangana-India,506005 -----</p> <p>8)Mr. Satyabrata Jena Address of Applicant :Associate Professor, Department of Pharmaceutics, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 -----</p> <p>9)Dr P Sobitha Rani Address of Applicant :Associate Professor, Dept of Pharmaceutics, Bhaskar Pharmacy College, Bhaskar Nagar,Moinabad, Rangareddy District, Hyderabad, India-500075 -----</p> <p>10)Dr Vikash Kumar Mishra Address of Applicant :Professor & Principal Ojaswini Pharmacy College, Sagar Madhya Pradesh. University Road,Pathariya Jat, Sagar, Madhya Pradesh, India-470228 -----</p> <p>11)Mr. Rakesh Swain Address of Applicant :Senior Research Fellow, Pharmaceutical Sciences, School of pharmaceutical sciences, SOA deemed to be university, Bhubaneswar, Odisha, India 751003 -----</p> <p>12)Dr Vankam Lokeswara Babu Address of Applicant :Associate Professor Dept of Pharmaceutics Bhaskar Pharmacy College, Yankapally (V), Moinabad (M), Rangareddy District. Hyderabad, Telangana,India,500075 -----</p>
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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
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :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

37652

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311031693 A

(19) INDIA

(22) Date of filing of Application :04/05/2023

(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

<p>(51) International classification :A61K 090600, A61K 311920, A61M 053150, A61P 290000, C11B 090000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Mohit Chadha Address of Applicant :Assistant Professor, Baba Farid College of Pharmacy, Mullanpur, Ludhiana, Punjab, Pin- 142023, India. -----</p> <p>2)Mr. Vishal Jagannath Gaikwad 3)Dr. Minkal Tuteja 4)Mrs. Mhaske Pratiksha Bharat 5)Dr. Jameel Ahmed S. Mulla 6)Mrs. Kajal khan 7)Dr. Archana Bagre 8)Dr. Sameer H.Lakade 9)Miss. Sana Abdul Hai Shaikh 10)Mrs. David Blessing Rani J 11)Dr. Ujashkumar Shah 12)Mr. Pravin Khushalrao Bhojar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Mohit Chadha Address of Applicant :Assistant Professor, Baba Farid College of Pharmacy, Mullanpur, Ludhiana, Punjab, Pin- 142023, India. -----</p> <p>2)Mr. Vishal Jagannath Gaikwad Address of Applicant :Assistant. Professor, Dr. Naikwadi College of D. Pharmacy Jamgaon Sinnar Nashik Pin code:-422103, India. -----</p> <p>3)Dr. Minkal Tuteja Address of Applicant :Assistant Professor, Panipat Institute of Engineering and Technology 70 Milestone, Samalkha Panipat, 132103, Haryana, India. -----</p> <p>4)Mrs. Mhaske Pratiksha Bharat Address of Applicant :Assistant Professor, Matoshri Radha College of Pharmacy Ahmad Nagar Maharashtra, Pin Code: - 422601, India. -----</p> <p>5)Dr. Jameel Ahmed S. Mulla Address of Applicant :Professor, Shree Santkrupa College of Pharmacy, Ghogaoan (Shivaji Nagar), Karad, Satara, Maharashtra Pin Code: - 415111, India. -----</p> <p>6)Mrs. Kajal khan Address of Applicant :Assistant Professor, Truba Institute of Pharmacy, Bhopal, Madhya Pradesh, Pin code: 462033, India. -----</p> <p>7)Dr. Archana Bagre Address of Applicant :Associate Professor, Truba Institute of Pharmacy Bhopal Madhya Pradesh. Pin code: 462033, India. -----</p> <p>8)Dr. Sameer H.Lakade Address of Applicant :Professor, Rasiklal M. Dhariwal Institute of Pharmaceutical Education and Research, Chinchwad, Pune, Maharashtra, Pin Code:- 411019, India. -----</p> <p>9)Miss. Sana Abdul Hai Shaikh Address of Applicant :Assistant Professor, Indala Institute of Pharmacy, Bapsai - Kalyan Mumbai University Thane Maharashtra, Pin Code: - 421 103, India. -----</p> <p>10)Mrs. David Blessing Rani J Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur, Balasore, Odisha, India Pincode: 756044 -----</p> <p>11)Dr. Ujashkumar Shah Address of Applicant :Professor and Head, Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, SK Campus, Visnagar Pin Code: - 384315, Mehsana, Gujarat, India. -----</p> <p>12)Mr. Pravin Khushalrao Bhojar Address of Applicant :Principal, Mata Mahakali College of Pharmacy, Tehsil-Warora, Chandrapur, Maharashtra Pin Code: - 442401, India. -----</p>
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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

(21) Application No.202341034845 A

(19) INDIA

(22) Date of filing of Application :18/05/2023

(43) Publication Date : 16/06/2023

(54) Title of the invention : CYBER PHYSICAL SYSTEM FOR HUMAN RESOURCE MANAGEMENT TO INCREASE GREEN CORPORATE IMAGE

<p>(51) International classification :A61K 367100, G05B 130400, G06Q 100600, G06Q 101000, G10L 152600</p> <p>(86) International Application No:NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Ms. SHARMILA FERNANDES Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MBA, ST CLARET INSTITUTE OF MANAGEMENT, BENGALURU UNIVERSITY, INDIAN, BENGALURU, 560063, KARNATAKA, INDIA. -----</p> <p>2)Ms. HIMRESHA BHATT</p> <p>3)Dr. VENKATESWARLU KARUMURI</p> <p>4)Dr. PARLE KALYAN CHAKRAVARTHY</p> <p>5)Dr. RAVI KUMAR PENKI</p> <p>6)Mr. MAHABUB BASHA S</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Ms. SHARMILA FERNANDES Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MBA, ST CLARET INSTITUTE OF MANAGEMENT, BENGALURU UNIVERSITY, INDIAN, BENGALURU, 560063, KARNATAKA, INDIA. -----</p> <p>2)Ms. HIMRESHA BHATT Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BBA, BENGALURU NORTH UNIVERSITY, INDIAN, BENGALURU, 560064, KARNATAKA, INDIA. -----</p> <p>3)Dr. VENKATESWARLU KARUMURI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MBA, INTERNATIONAL INSTITUTE OF BUSINESS STUDIE, BANGALORE CITY UNIVERSITY, INDIAN, BENGALURU, 562157, KARNATAKA, INDIA. -----</p> <p>4)Dr. PARLE KALYAN CHAKRAVARTHY Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF MANAGEMENT CENTURION UNIVERISTY OF TECHNOLOGY AND, INDIAN, PARLAKHEMUNDI, 761211, ODISHA, INDIA. -----</p> <p>5)Dr. RAVI KUMAR PENKI Address of Applicant :ASSOCIATE PROFESSOR MANAGEMENT STUDIE SITAM, JNTUGV, INDIAN, VIJAYANAGARAM, 530041, ANDHRA PRADESH, INDIA. -----</p> <p>6)Mr. MAHABUB BASHA S Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, INTERNATIONAL INSTITUTE OF BUSINESS STUDIE BANGALORE CITY UNIVERSITY, INDIAN, BENGALURU, 562157, KARNATAKA, INDIA. -----</p>
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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



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



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

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

München, 30.01.2023





Benachrichtigung über den Erhalt einer Gebrauchsmusteranmeldung:

Dokumenten Referenz-Nr. (DRN): 2022122813184100DE

Anmeldung eingegangen am: 28.12.2022

Digitale Signatur

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gültig von: 28.11.2022 01:00:00

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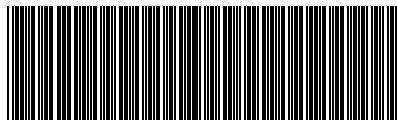
Seriennummer: 18195984972387930518499884007315914216

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



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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Deutsches Patent- und Markenamt

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Für **technische** Fragen rund um DPMAdirekt wenden Sie sich an unsere technische Kundenbetreuung:

E-Mail: DPMAdirekt@dpma.de

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



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 DPMAreger	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

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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 Siringae durch gezielte Ansprache von Cochaperonen, die eine J-Domäne enthalten
- [51] **IPC-Hauptklasse:** C12Q 1/04 (2006.01)
- [51] **IPC-Nebeklasse(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 PartGmbH, 50672 Köln, DE
- [-----] **Zustellanschrift:** Hohendorf Kierdorf Patentanwälte PartGmbH, 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



POSTANSCHRIFT Deutsches Patent- und Markenamt • 80297 München

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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
- Sequenzprotokoll als elektronisches Dokument

Wichtige Hinweise:

Wird die Anmelde- oder Rechercheantragsgebühr nicht innerhalb von 3 Monaten nach Einreichung der Anmeldung bzw. nach Stellung des Antrags gezahlt, so gilt die Anmeldung bzw. der Rechercheantrag als zurückgenommen (§ 6 PatKostG). Bitte beachten Sie, dass außer der Empfangsbestätigung keine weitere Gebührenbenachrichtigung versandt wird.

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 Recherchantrag erst dann zu stellen, wenn feststeht, dass der Eintragung keine Hindernisse im Wege stehen.

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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,
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3. Als **Einzahlungstag** gilt gemäß § 2 PatKostZV
 - a) bei Barzahlung der Tag der Einzahlung,
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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):				
Centurion University of Technology and Management Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050, India Annapurna Sahoo School of Applied Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050, India Gagan Kumar Panigrahi School of Applied Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050, India Kunja Bihari Satapathy School of Applied Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050, India					
71	Applicant substituted:			Date registered	
71	Assignee(s):			Date registered	
72	Full name(s) of inventor(s):				
Annapurna Sahoo Gagan Kumar Panigrahi Kunja Bihari Satapathy					
Priority claimed:		Country	Number		Date
54	Title of invention				
A COMPOSITION AND METHOD FOR PROVIDING RESISTANCE AGAINST PATHOGEN INFECTION AND DROUGHT STRESS IN ARABIDOPSIS					
Address of applicant(s)/patentee(s):					
Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050 INDIA School of Applied Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050 INDIA School of Applied Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050 INDIA School of Applied Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Odisha, 752050 INDIA					
74	Address for service				
Wolmarans and Susan Inc. 337 Surrey Avenue, Randburg, Gauteng, 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
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HISTORY SHEET

Date entry made	Description
2023-02-28	Proof reading performed automatically
2023-02-28	Request for the acceptance of a Patent electronically filed on 27/2/2023, numbered 2023/02843
2023-05-17	Application accepted on 17/05/2023.
2023-05-17	Patent Notice of Acceptance sent by email to info@wsip.co.za
2023-06-01	Patent advertised on 31-05-2023.
2023-06-01	Patent granted on 31-05-2023.



(54) Title of the invention : A METHOD OF MAKING AND USING COMPOSITIONS OF METAL NANOPARTICLES FORMED BY GREEN CHEMISTRY SYNTHETIC TECHNIQUES

<p>(51) International classification :B82Y 300000, B82Y 400000, C08F 930000, C09D 050800, H01M 100525</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. Govindarao Yedlapalli Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis & Quality Assurance, Siddhartha Institute of Pharmaceutical Sciences, Guntur road, Jonnalagadda, Narasaraopet Mandal, Guntur - 522601, Andhra Pradesh, India. -----</p> <p>2)Ms. Saloni Sharma</p> <p>3)Mr. Gyanendra Kumar Saxena</p> <p>4)Ms. Pratibha Kumari</p> <p>5)Mrs. Padmasri Budumuru</p> <p>6)Mrs Usha Singh</p> <p>7)Dr. Avneet Gupta</p> <p>8)Ms. Rasmita Jena</p> <p>9)Mrs. Nemapalli Yamini</p> <p>10)Mr. Wake Chandrashekhar Bhausaheb</p> <p>11)Dr. Sandeep Gupta</p> <p>12)Dr.P.Balaji</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Govindarao Yedlapalli Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis & Quality Assurance, Siddhartha Institute of Pharmaceutical Sciences, Guntur road, Jonnalagadda, Narasaraopet Mandal, Guntur - 522601, Andhra Pradesh, India. -----</p> <p>2)Ms. Saloni Sharma Address of Applicant :Ph.D. Research Scholar JSS College of Pharmacy, Ooty -----</p> <p>3)Mr. Gyanendra Kumar Saxena Address of Applicant :Principal, Maharana Pratap College of Pharmacy and Paramedical Sciences, Kanpur, Uttar Pradesh, India -----</p> <p>4)Ms. Pratibha Kumari Address of Applicant :Research Scholar/Assistant Professor, Department of Pharmacy, School of Medical and Allied Sciences Galgotias University, Plot No. 2, Sector -17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin Code- 201310 -----</p> <p>5)Mrs. Padmasri Budumuru Address of Applicant :Associate Professor, Department of Pharmaceutical Technology Sri Venkateswara College of Pharmacy, Srikulam, Andhra Pradesh, India -----</p> <p>6)Mrs Usha Singh Address of Applicant :Assistant Professor BIT Partapur, Meerut B-70 Police Enclave Lohiya Nagar Meerut, Uttar Pradesh, India. -----</p> <p>7)Dr. Avneet Gupta Address of Applicant :Professor, Shiva Institute of Pharmacy, Chandpur, Bilaspur, Himachal Pradesh, India ---</p> <p>8)Ms. Rasmita Jena Address of Applicant :Assistant Professor, School of Pharmacy and Life Sciences Centurion University of Technology and Management, Ramachandrapur, Jatani, Bhubaneswar, Khordha, Odisha, 752050 -----</p> <p>9)Mrs. Nemapalli Yamini Address of Applicant :Assistant Professor (Adhoc), Department of Pharmacology JNTUA OTPRI Jawaharlal Nehru Technological University, Anantapur, Andhra Pradesh,515001 -----</p> <p>10)Mr. Wake Chandrashekhar Bhausaheb Address of Applicant :Student, Dr. Kolpe Institute of Pharmacy, Kolpewadi, Kopargaon, Ahmednagar, Maharashtra, India -----</p> <p>11)Dr. Sandeep Gupta Address of Applicant :Principal, Tagore Institute of Pharmacy and Research, Turkadih Bypass Road, Sakri, Bilaspur, Chattisgarh 495001 India. -----</p> <p>12)Dr.P.Balaji Address of Applicant :Professor, Department of Pharmacology, School of Pharmaceutical Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chengalpattu, Chennai -600 117. -----</p>
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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

(21) Application No.202341017993 A

(19) INDIA

(22) Date of filing of Application :16/03/2023

(43) Publication Date : 31/03/2023

(54) Title of the invention : Formulation and Evaluation of Herbal Handwash with potential Anti- Bacterial Action

<p>(51) International classification :A01N 250800, A61K 084000, A61K 089000, A61Q 170000, C11D 015200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Sandhya S Address of Applicant :Professor and Head, Department of Pharmacology, PSM College of Dental Science and Research, Akkikavu, Thrissur, Kerala, India-680519 ----- 2)Mr. Raju Darla 3)Dr. Kiran Kumar 4)Dr. Anoop Kumar N 5)Ms. Rupali Sontakke 6)Ms. Rasmita Jena 7)Professor Shital Vijay Sirsat 8)Mr. Rajat 9)Ms. Shivani Sharma 10)Professor Trupti B Kale 11)Professor Jyoti Bhushan Khedekar 12)Satyabrata Jena Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sandhya S Address of Applicant :Professor and Head, Department of Pharmacology, PSM College of Dental Science and Research, Akkikavu, Thrissur, Kerala, India-680519 ----- 2)Mr. Raju Darla Address of Applicant :Associate Professor, Department of Pharmacognosy and Phytochemistry, Jogenipally B R Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 3)Dr. Kiran Kumar Address of Applicant :Associate Professor, Department of Pharmaceutics, Calcutta Institute of Pharmaceutical Technology and Allied Health Sciences, Banitabla, Uluberia, Howrah, West Bengal, India-711316 ----- 4)Dr. Anoop Kumar N Address of Applicant :Associate Professor, School of Family Health Studies, Kerala University of Health Sciences, Thrissur, Kerala 680596, Adjunct Faculty, Department of Oral Pathology, Saveetha Dental College and Hospitals, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, Tamil Nadu, India-600077 ----- 5)Ms. Rupali Sontakke Address of Applicant :Assistant Professor, Department of Pharmacognosy, Faculty of Pharmacy, Medi-Caps University, Indore, AB Road Pigdambar, Indore, Madhya Pradesh, India, 453331 ----- 6)Ms. Rasmita Jena Address of Applicant :Assistant Professor, Faculty of Pharmacy, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Bhubaneswar, Odisha, India-752050 ----- 7)Professor Shital Vijay Sirsat Address of Applicant :Associate Professor, Department of Pharmaceutics, Shri Sant Gajanan Maharaj College of Pharmacy, Buldana, Near Palnagarh, Sagwan Road, At, Post Buldhana, Buldhana, Maharashtra, India, 443001 ----- 8)Mr. Rajat Address of Applicant :Associate Professor Cum Research Scholar, College of Pharmacy, RIMT University, Mandi Gobindgarh, Fatehgarh Sahib, Punjab, India-147301 ----- 9)Ms. Shivani Sharma Address of Applicant :Assistant Professor Cum Research Scholar, College of Pharmacy, RIMT University, Mandi Gobindgarh, Fatehgarh Sahib, Punjab, India-147301 ----- 10)Professor Trupti B Kale Address of Applicant :Assistant Professor, Department of Pharmaceutics, Shri Sant Gajanan Maharaj College of Pharmacy, Buldhana, Near Palna Ghar, Sagwan Road Buldhana, Maharashtra, India-443001 ----- 11)Professor Jyoti Bhushan Khedekar Address of Applicant :Assistant Professor, Department of Pharmaceutics, Shri Sant Gajanan Maharaj College of Pharmacy, Buldana, Near Palna Ghar, Sagwan Road, Buldana, Maharashtra, India-443001 ----- 12)Satyabrata Jena Address of Applicant :Associate Professor, Department of Pharmaceutics, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 -----</p>
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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

(21) Application No.202331057425 A

(19) INDIA

(22) Date of filing of Application :28/08/2023

(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

(54) Title of the invention : A METHOD FOR GENOMIC SEQUENCING PANEL FOR TRANSPLANTATION PHARMACOGENOMICS

<p>(51) International classification :C12N 151000, C12Q 016869, G01N 335000, G16B 200000, G16B 300000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Hara Prasad Mishra Address of Applicant :Junior Resident (Academic), Department of Pharmacology, University College of Medical Sciences, Delhi, University of Delhi, Delhi, India -110095 Delhi ----- 2)Dr. Rozafa Koliqi 3)Dr. Mulavagili Vijayasimha 4)Dr.Karavadi Thejomoorthy 5)Dr. Amer Ahmed Syed 6)Ms. Rasmita Jena 7)Dr. Sanjeev Sharma 8)Satyabrata Jena 9)Dr.Mahendra Kumar Panigrahi 10)Dr. Parida Ansuman Abhisek 11)Soudamini Alekhacharan 12)Dr. Chinmaya Mahapatra Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Hara Prasad Mishra Address of Applicant :Junior Resident (Academic), Department of Pharmacology, University College of Medical Sciences, Delhi, University of Delhi, Delhi, India -110095 Delhi ----- 2)Dr. Rozafa Koliqi Address of Applicant :Associate Professor Specialist in Clinical Pharmacy, Faculty of Medicine, Pharmacy Department, University of Prishtina, Str.George Bush & quot, Nr.31, 10000, Prishtine, Republic of Kosova ---- 3)Dr. Mulavagili Vijayasimha Address of Applicant :Professor & HOD, BMLT Department, School of Health Sciences, The Neotia University, Sarisha, Diamond Harbour Road, 24 Parganas (S), West Bengal, India-743368 Parganas ----- 4)Dr.Karavadi Thejomoorthy Address of Applicant :Professor & Principal Department of pharmaceutical analysis, Malineni Lakshmaiah college of Pharmacy, Kanumalla singarayakonda, Prakasam District, Andhra Pradesh, India-523101 Prakasam ----- 5)Dr. Amer Ahmed Syed Address of Applicant :Medical Director, Drug Safety and Pharmacovigilance Leader, City - Lake Villa, Illinois, USA, 60046 ----- 6)Ms. Rasmita Jena Address of Applicant :Assistant Professor, Faculty Of Pharmacy, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Bhubaneswar, Odisha, India-752050 Bhubaneswar ----- 7)Dr. Sanjeev Sharma Address of Applicant :Assistant Professor, Department of Fish Processing Technology, The Neotia University, Sarisha, Diamond Harbour Road, 24 Parganas (S), West Bengal, India-743368 Parganas ----- 8)Satyabrata Jena Address of Applicant :Associate Professor, Department of Pharmaceutics, Bhaskar Pharmacy College, Yenkapally, Moinabad, Hyderabad, Telangana,India-500075 Hyderabad ----- 9)Dr.Mahendra Kumar Panigrahi Address of Applicant :Professor, Department of Pharmacognosy, Danteswari college of Pharmacy, Borapadar, Raipur Road, Jagdalpur, Chhattisgarh, India -494221 Jagdalpur ----- 10)Dr. Parida Ansuman Abhisek Address of Applicant :Assistant Professor, (MBBS, MD Pharmacology, PG Diploma in Diabetes Management, PG Diploma in Geriatric Medicine) Department of Pharmacology, SCB Medical College and Hospital Cuttack, Odisha, India-753007 Cuttack ----- 11)Soudamini Alekhacharan Address of Applicant :Assistant Professor, Department of Pharmaceutical Analysis and Quality Assurance, Maharajah's College of Pharmacy, Vizianagaram, Andra Pradesh, India- 535002 Vizianagaram ----- 12)Dr. Chinmaya Mahapatra Address of Applicant :Associate Professor & HOD, Department of Pharmaceutics, School of Pharmacy, The Neotia University, Sarisha, 24 Parganas (s), Diamond Harbour Road, West Bengal, India- 743368 Parganas ----</p>
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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

(54) Title of the invention : Determination of biological activities of leaf extracts of piper Betal Linn

<p>(51) International classification :A61K 089700, A61K 366700, A61P 011400, A61P 430000, G01N 350000</p> <p>(86) International Application No :PCT/ Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Professor (Dr.) KNV Rao Address of Applicant :Principal, Nalanda College of Pharmacy, Cherapally, Nalgonda, Telangana, India-508001 ----- 2)Dr. Payal Dande 3)Dr. Priyanka Debta 4)Rupali Sontakke 5)Dr. Himaja Trivedi M 6)Dr. Nitin Balkrishna Aher 7)Roja Sahu 8)Sanket Mandal 9)Mrs. K. Sumalatha 10)Ms. Rasmita Jena 11)Dr. Sachinkumar Dnyaneshwar Gunjal 12)Mr. Hrutik Shantaram Murtadak Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Professor (Dr.) KNV Rao Address of Applicant :Principal, Nalanda College of Pharmacy, Cherapally, Nalgonda, Telangana, India-508001 ----- 2)Dr. Payal Dande Address of Applicant :Head of the Department, Department of Pharmacognosy, SVKM's NMIMS SPTM Shirpur Campus, Near Tapi river Bridge, Shirpur, Maharashtra, India-425405 ----- 3)Dr. Priyanka Debta Address of Applicant :Professor, Department of Oral Pathology and Microbiology, Institute of Dental Sciences, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India ----- 4)Rupali Sontakke Address of Applicant :Assistant Professor, Department of Pharmacognosy, Faculty of Pharmacy, Medi-Caps University, AB road Pigdamber, Indore, Madhya Pradesh, India- 453331 ----- 5)Dr. Himaja Trivedi M Address of Applicant :Assistant Professor, Department of Pharmacognosy, Anurag Pharmacy College, Ananthagiri, Kodad- Suryapeta (District), Telangana, India-508206 ----- 6)Dr. Nitin Balkrishna Aher Address of Applicant :Principal, Department of Pharmacognosy, Ashvin College of Pharmacy, Manchi Hill, Sangamner, Ahmednagar, Maharashtra, India-413714 ----- 7)Roja Sahu Address of Applicant :M.Pharm (Pharmacology), Research Scholar, Department of Pharmaceutical Sciences & Technology, Birla Institute of Technology (BIT), Mesra, Ranchi, Jharkhand, India-835215 ----- 8)Sanket Mandal Address of Applicant :M.Pharm (Pharmaceutical Chemistry), Research Scholar, Shoolini University of Biotechnology and Management, Solan-Oachghat-Kumarhatti Highway, Bajhol, Himachal Pradesh, India-173229 ----- 9)Mrs. K. Sumalatha Address of Applicant :Associate Professor, Department of Pharmacognosy, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 10)Ms. Rasmita Jena Address of Applicant :Assistant Professor, Faculty of Pharmacy, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramachandrapur, Jatni, Bhubaneswar, Odisha, India-752050 ----- 11)Dr. Sachinkumar Dnyaneshwar Gunjal Address of Applicant :Department of Pharmaceutics, Amrutvahini College of Pharmacy, Sangamner, Savitribai Phule Pune University, Maharashtra, India, Pin-422605 ----- 12)Mr. Hrutik Shantaram Murtadak Address of Applicant :Amrutvahini College of Pharmacy, Sangamner, Savitribai Phule Pune University, Maharashtra, India, Pin-422605 -----</p>
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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

(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
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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

(21) Application No.202331056343 A

(19) INDIA

(22) Date of filing of Application :22/08/2023

(43) Publication Date : 27/10/2023

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

<p>(51) International classification :A61P0027060000, A61K0009000000, A61K0047360000, H01J0049040000, G16H0010200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Siksha 'O' Anusandhan (Deemed to be University) Address of Applicant :Khandagiri Square, Bhubaneswar - 751030, Odisha, India Bhubaneswar -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SAHOO, Rudra Narayan Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Odisha - 751003, India Bhubaneswar -----</p> <p>2)NANDA, Ashirbad Address of Applicant :Associate Professor, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha - 752050, India Bhubaneswar -----</p> <p>3)PATTNAYAK, Priyabrata Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Odisha - 751003, India Bhubaneswar -----</p> <p>4)SATAPATHY, Bhabani Sankar Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Odisha - 751003, India Bhubaneswar -----</p> <p>5)ROUT, Sudhanshu Sekhar Address of Applicant :Associate Professor, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Odisha - 751003, India Bhubaneswar -----</p> <p>6)PARMANIK, Ankita Address of Applicant :JRF, DST INSPIRE Fellow (IF-220020), School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Odisha - 751003, India Bhubaneswar -----</p> <p>7)BISWAL, Snehanjana Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha - 752050, India Bhubaneswar -----</p> <p>8)ROUT, Sagar Address of Applicant :School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha - 752050, India Bhubaneswar -----</p> <p>9)SWAIN, Santosh Kumar Address of Applicant :Professor, Department of Otorhinolaryngology, IMS & SUM Hospital, Siksha 'O' Anusandhan (Deemed to be University), Odisha - 751003, India Bhubaneswar -----</p> <p>10)PUROHIT, Gopal Krishna Address of Applicant :CEO & Co-Founder Heredity Biosciences LLP, Plot No: 273/3575, Mayfair Lagoon Road, Jayadev Vihar, Bhubaneswar - 751013, Odisha, India Bhubaneswar -----</p>
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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

(54) Title of the invention : ULTRAVIOLET SPECTROPHOTOMETRIC METHOD FOR THE ESTIMATION OF TRIMETHOPRIM IN TABLETS

<p>(51) International classification :G01N0021330000, G16B0040000000, H04N0019593000, C12Q0001680000, G06F0001260000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Chitranjan Nayak Address of Applicant :Asst. Professor, Raigarh College Of Pharmacy, Village – Kotrapali, Post – Jurda, Dist- Raigarh, Chhattisgarh, 496001, India -----</p> <p>----</p> <p>2)KM Nandini 3)Jay Kumar Chandra 4)Mr Dharmendra Pradhan 5)Akanksha Sa 6)Abharani 7)Mr. Jaising Toppo Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Chitranjan Nayak Address of Applicant :Asst. Professor, Raigarh College Of Pharmacy, Village – Kotrapali, Post – Jurda, Dist- Raigarh, Chhattisgarh, 496001, India -----</p> <p>----</p> <p>2)KM Nandini Address of Applicant :Asst. Professor, Raigarh College Of Pharmacy, Village – Kotrapali, Post – Jurda, Dist- Raigarh, Chhattisgarh, 496001, India -----</p> <p>----</p> <p>3)Jay Kumar Chandra Address of Applicant :Asst. Professor, Raigarh College Of Pharmacy, Village – Kotrapali, Post – Jurda, Dist- Raigarh, Chhattisgarh, 496001, India -----</p> <p>----</p> <p>4)Mr Dharmendra Pradhan Address of Applicant :Assistant Professor, Centurion University of Technology and Management, Balangir Campus, Behind BSNL office, IDCO land, Rajib Nagar, Balangir, 767001 Odisha, India -----</p> <p>5)Akanksha Sa Address of Applicant :Asst. Professor, Raigarh College Of Pharmacy, Village – Kotrapali, Post – Jurda, Dist- Raigarh, Chhattisgarh, 496001, India -----</p> <p>----</p> <p>6)Abharani Address of Applicant :Raigarh College of Education (Pharmacy) Siyarpali, Raigarh, Chhattisgarh, 496001, India -----</p> <p>7)Mr. Jaising Toppo Address of Applicant :Asst. Professor, Raigarh College Of Pharmacy, Village – Kotrapali, Post – Jurda, Dist- Raigarh, Chhattisgarh, 496001, India -----</p> <p>----</p>
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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

(54) Title of the invention : Chemo Selective Synthesis of 1,2-Disubstituted Benzimidazoles

<p>(51) International classification :A61K 315060, A61P 250600, A61P 252200, C07D 011200, G01N 330000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. Bhavana Dubey Address of Applicant :Assistant Professor, Saroj Institute of Technology and Management, Lucknow, Uttar Pradesh, Pin code: 226002 -----</p> <p>2)Mr. Parmar Ishvarchandra Jethalal 3)Dr. Hemalatha Reddipalli 4)Dr. Punniyakoti Veeraveedu Thanikachalam 5)Dr. Mrityunjay Banerjee 6)Dr. Hitesh Kumar 7)Mr. Abhishek Saini 8)Mrs. Amandeep Kaur 9)Mr. Anil Parasnath Sao 10)Mr. Rabisankar Dash 11)Mr. Jawed Isak Devlekar 12)Mr. Suraj Pratap Verma Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Bhavana Dubey Address of Applicant :Assistant Professor, Saroj Institute of Technology and Management, Lucknow, Uttar Pradesh, Pin code: 226002 -----</p> <p>2)Mr. Parmar Ishvarchandra Jethalal Address of Applicant :Assistant Professor, SSR College of Pharmacy, Sayli Road, Dadra and Nagar Haveli, Pin code: 396230 -----</p> <p>3)Dr. Hemalatha Reddipalli Address of Applicant :Professor & Principal, Holy Mary Institute of Technology & Science - College of Pharmacy, Bogaram, Hyderabad, Telangana, Pin code: 501301 -----</p> <p>4)Dr. Punniyakoti Veeraveedu Thanikachalam Address of Applicant :Professor, Department of Pharmaceutical Chemistry, Saveetha College of Pharmacy, Saveetha Nagar, Thandalam, Kanchipuram - Chennai Rd, Chennai, Tamil Nadu, Pin code: 602105 -----</p> <p>5)Dr. Mrityunjay Banerjee Address of Applicant :Associate Professor, Institute of Pharmacy & Technology, Salipur, Cuttack, Odisha, Pin code- 754202 -----</p> <p>6)Dr. Hitesh Kumar Address of Applicant :Professor, School of Pharmaceutical Sciences, Om Sterling Global University, NH-52, Chandigarh Road, Hisar, Haryana, Pin code:125001 -----</p> <p>7)Mr. Abhishek Saini Address of Applicant :PG Scholar, Laureate Institute of Pharmacy, V.P.O Kathog, Teh. Jawalamukhi, Kangra, Himachal Pradesh, Pin Code: 176031 -----</p> <p>8)Mrs. Amandeep Kaur Address of Applicant :Assistant Professor, Amar Shaheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy, Bela, Ropar, Punjab, Pin code- 140001 -----</p> <p>9)Mr. Anil Parasnath Sao Address of Applicant :Associate Professor, Mata Gujri College of Pharmacy, Purabpali Road, Mata Gujri University Campus, Kishanganj, Bihar, Pin code- 855107 -----</p> <p>10)Mr. Rabisankar Dash Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur, Balasore, Odisha, Pin code- 756044 -----</p> <p>11)Mr. Jawed Isak Devlekar Address of Applicant :Assistant Professor, ASPM College of Pharmacy, Sangulwadi, Vaibhawwadi, Sindhudurg, Maharashtra, Pin code- 416810 -----</p> <p>12)Mr. Suraj Pratap Verma Address of Applicant :Assistant Professor, Acharya Narendra Deo College of Pharmacy, Bhabhnan, Gonda, Uttar Pradesh, Pin code: 271313 -----</p>
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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

(54) Title of the invention : IMPLEMENTATION OF TECHNIQUES TO PREDICT THE INFLUENCE OF CLINICAL PHARMACY SERVICES ENHANCED BY ELECTRONIC HEALTH RECORD (EHR) ACCESS

<p>(51) International classification :G16H0010600000, G06N0020000000, C12N0015100000, G06K0009620000, G16H0050700000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. SIVAPRASAD SAGILI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, MNR COLLEGE OF PHARMACY, SANGAREDDY 502294 SANGAREDDY ----- 2)Dr.VELICHARLA RAVITEJA 3)P.SRIKANTH REDDY 4)BANDI NARENDHAR 5)PENJURI SUBHASH CHANDRA BOSE 6)Dr.SANDHYA RANLR 7)AITHAMRAJU SATISHCHANDRA 8)V.RADHIKA 9)Dr RAVI KUMAR VEMULAPALLI 10)MR. RAKESH MEHER 11)MR. SUHAS SURESH AGEY 12)MR. SATYABRATA JENA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. SIVAPRASAD SAGILI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, MNR COLLEGE OF PHARMACY, SANGAREDDY 502294 SANGAREDDY ----- 2)Dr.VELICHARLA RAVITEJA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACY PRACTICE, MNR COLLEGE OF PHARMACY, SANGAREDDY - 502 294 HYDERABAD ----- 3)P.SRIKANTH REDDY Address of Applicant :PROFESSOR/PHARMACEUTICS,MNR COLLEGE OF PHARMACY, SANGAREDDY, 52319 HYDERABAD ----- 4)BANDI NARENDHAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICAL CHEMISTRY, MNR COLLEGE OF PHARMACY, SANGAREDDY, 502294 SANGAREDDY ----- 5)PENJURI SUBHASH CHANDRA BOSE Address of Applicant :PROFESSOR, DEPARTMENT OF PHARMACEUTICS, MNR COLLEGE OF PHARMACY, SANGAREDDY-502294 SANGAREDDY ----- 6)Dr.SANDHYA RANLR Address of Applicant :ASST.PROFESSOR, DEPARTMENT OF PHARMACY PRACTICE,MNR COLLEGE OF PHARMACY,SANGAREDDY,502294 FAISALWADI ----- 7)AITHAMRAJU SATISHCHANDRA Address of Applicant :ASSOCIATE PROFESSOR /DEPARTMENT OF PHARMACOLOGY,MNR COLLEGE OF PHARMACY, SANGAREDDY,502001 SANGAREDDY ----- 8)V.RADHIKA Address of Applicant :ASST PROFESSOR,PHARMACEUTICAL ANALYSIS,MNR COLLEGE OF PHARMACY SANGAREDDY ----- 9)Dr RAVI KUMAR VEMULAPALLI Address of Applicant :PROFESSOR, DEPARTMENT OF PHARMACOLOGY, MNR COLLEGE OF PHARMACY, SANGAREDDY5022,85 SANGAREDDY ----- 10)MR. RAKESH MEHER Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, SCHOOL OF PHARMACY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BOLANGIR, ODISHA-767001 BOLANGIR ----- 11)MR. SUHAS SURESH AGEY Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, SVKM'S NMIMS DEEMED TO BE UNIVERSITY, SCHOOL OF PHARMACY AND TECHNOLOGY MANAGEMENT SHIRPUR CAMPUS, SHIRPUR, MAHARASHTRA, INDIA-425405 SHIRPUR ----- 12)MR. SATYABRATA JENA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, BHASKAR PHARMACY COLLEGE, HYDERABAD, TELANGANA-500075 HYDERABAD -----</p>
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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

(21) Application No.202341045688 A

(19) INDIA

(22) Date of filing of Application :07/07/2023

(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 Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention is related to 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

(21) Application No.202341022644 A

(19) INDIA

(22) Date of filing of Application :28/03/2023

(43) Publication Date : 07/04/2023

(54) Title of the invention : Novel process of Antioxidant and Phenolic content property of Lantana Camara

<p>(51) International classification :A01H 050200, A01N 650000, A23K 201050, A61K 368500, C08K 051300</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mrs.P. Udaya Chandrika Address of Applicant :Associate Professor, Department of Pharmacognosy, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 2)Dr.Somnath De 3)G. Sudha Rani 4)Madhabi Priyadarshini Behera 5)Satyabrata Jena 6)Mrs. K. Sumalatha 7)Shipra Thapar 8)Mrs. Annanya Gangopadhyay 9)Dr. Anoop Kumar N 10)Rahul Kumar Shaw 11)Dr. Sandhya S 12)Sapna Keshri Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mrs.P. Udaya Chandrika Address of Applicant :Associate Professor, Department of Pharmacognosy, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 2)Dr.Somnath De Address of Applicant :Professor, Department of Pharmacology, St.Pauls College of Pharmacy, Turkayamjal (V), Abdullapurmet (M), Ranga Reddy District, Hyderabad, Telangana, India-501510 ----- 3)G. Sudha Rani Address of Applicant :Assistant Professor, Department of Pharmacognosy and Phytochemistry, Joginpally B R Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 4)Madhabi Priyadarshini Behera Address of Applicant :Assistant Professor, Department of Pharmaceutics, Dhanvantari College of Pharmacy, Munnapatra, Chakla, Ormanjhi, Ranchi, Jharkhand, India- 835219 ----- 5)Satyabrata Jena Address of Applicant :Associate Professor, Department of Pharmacognosy, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 6)Mrs. K. Sumalatha Address of Applicant :Associate Professor, Department of Pharmacognosy, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 ----- 7)Shipra Thapar Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, School of Pharmaceutical Sciences, CT University, Ferozepur Road, Sidhankhurd, Punjab, India-142024 ----- 8)Mrs. Annanya Gangopadhyay Address of Applicant :Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Odisha, India, 756044 ----- 9)Dr. Anoop Kumar N Address of Applicant :Associate Professor, School of Family Health Studies, Kerala University of Health Sciences, Thrissur, Kerala 680596, Adjunct Faculty, Department of Oral Pathology, Saveetha Dental College and Hospitals, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, Tamil Nadu, India 600077 ----- 10)Rahul Kumar Shaw Address of Applicant :Assistant Professor, Department of Pharmaceutics, Dhanvantari College of Pharmacy, Munnapatra, Chakla, Ormanjhi, Ranchi, Jharkhand, India- 835219 ----- 11)Dr. Sandhya S Address of Applicant :Professor and Head, Department of Pharmacology, PSM College of Dental Science and Research, Akkikavu, Thrissur, Kerala, India-680519 ----- 12)Sapna Keshri Address of Applicant :Assistant Professor, Department of Pharmacology, Jharkhand Rai University, Raja Ulatu, Namkum, Ranchi, Jharkhand, India- 834010 -----</p>
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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



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



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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ADDITIONAL-EMAIL (As Per Record)	
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/03/2023



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	202331042894
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/06/2023
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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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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/06/2023

(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

(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 :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 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
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TITLE OF INVENTION	PREPARING A DRUG FOR TREATING OBESITY AND COSMETICALLY TREATING OVERWEIGHT USING AQUAGLYCEROPORINS
FIELD OF INVENTION	CHEMICAL
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Application Status

(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
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 (62) Divisional to Application Number :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-infamed cutaneous or mucosal tissues of the herpes virus-infected animal. The sustained launch method is an osmotic managed pill comprising trepostinil or a salt thereof in a quantity of 1.0 to 5.0 mg primarily based on the weight of trepostinil. 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.

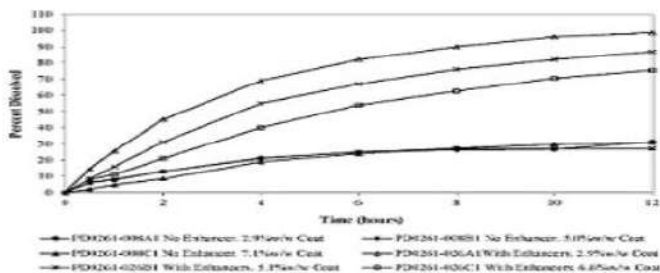


FIG. 1

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

(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
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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

(54) Title of the invention : Novel mechanism and various clotting factors to identify functioning of blood circulation

<p>(51) International classification :A61K 380000, A61P 070400, A61P 090000, C12N 096400, C12Q 016886</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Kothapalli Sandeep Address of Applicant :Assistant Professor, Department of Pharmaceutics, Joginpally B R Pharmacy College, Survey no 156 to 162, Amdhapur X Road, Yenkapally, Moinabad, Hyderabad, Telangana, India-500075 -----</p> <p>2)Mr. Raju Darla</p> <p>3)Shipra Thapar</p> <p>4)Rahul Kumar Shaw</p> <p>5)Madhabi Priyadarshini Behera</p> <p>6)Kishor Kumar Mahakur</p> <p>7)Deepak Kumar Patra</p> <p>8)Anmol Das</p> <p>9)Ms. Taru Vats</p> <p>10)Ms. Saman Aqeel</p> <p>11)Mr. Sidhartha Parida</p> <p>12)Chatlapelli Kishore</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Kothapalli Sandeep Address of Applicant :Assistant Professor, Department of Pharmaceutics, Joginpally B R Pharmacy College, Survey no 156 to 162, Amdhapur X Road, Yenkapally, Moinabad, Hyderabad, Telangana, India-500075 -----</p> <p>2)Mr. Raju Darla Address of Applicant :Associate Professor, Department of Pharmacognosy and Phytochemistry, Joginpally B R Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 -----</p> <p>3)Shipra Thapar Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, School of Pharmaceutical Sciences, CT University, Ferozepur Road, Sidhwan Khurd, Punjab, India, 142024 -----</p> <p>4)Rahul Kumar Shaw Address of Applicant :Asst. Professor, Department of Pharmaceutics, Dhanvantari College of Pharmacy, Munnapatra, Chakla, Ormanjhi, Ranchi, Jharkhand, India- 835219 -----</p> <p>5)Madhabi Priyadarshini Behera Address of Applicant :Assistant Professor, Department of Pharmaceutics, Dhanvantari College of Pharmacy, Munnapatra, Chakla, Ormanjhi, Ranchi, Jharkhand, India, 835219 -----</p> <p>6)Kishor Kumar Mahakur Address of Applicant :Lecturer, Department of Pharmaceutics, Dhanvantari College of Pharmacy, Munnapatra, Chakla, Ormanjhi, Ranchi-Jharkhand, India, 835219 -----</p> <p>7)Deepak Kumar Patra Address of Applicant :Professor, Department of Pharmaceutical Chemistry, Dhanvantari College of Pharmacy, Munnapatra, Chakla, Ormanjhi, Ranchi-Jharkhand, India, 835219 -----</p> <p>8)Anmol Das Address of Applicant :Lecturer, Department of Pharmaceutical Chemistry, Dhanvantari College of Pharmacy, Ormanjhi, Ranchi, Jharkhand, India, 835219 -----</p> <p>9)Ms. Taru Vats Address of Applicant :Assistant Professor, Department of Pharmacy, IIMT College of Pharmacy, Plot No. 19 & 20, Knowledge Park - III, Greater Noida, Uttar Pradesh, India-201310 -----</p> <p>10)Ms. Saman Aqeel Address of Applicant :Assistant Professor, Department of Pharmacy, IIMT College of Pharmacy, Plot No. 19 & 20, Knowledge Park -III, Greater Noida, Uttar Pradesh, India, Pin-201306 -----</p> <p>11)Mr. Sidhartha Parida Address of Applicant :Assistant Professor, Department of Pharmaceutics, School of Pharmacy, Centurion University of Technology and Management, Gopalpur, Balasore, Odisha, India, 756044 -----</p> <p>12)Chatlapelli Kishore Address of Applicant :Assistant Professor, Department of Pharmaceutics, Vaagdevi Institute of Pharmaceutical Sciences, Bollikunta, Warangal, Telangana, India-506005 -----</p>
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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.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **28th** day of **June 2023**

A handwritten signature in black ink, appearing to be 'S. D. H.', written over a dotted line.

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
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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

37667

(54) Title of the invention : INNOVATIVE AND ALTERNATIVE OCULAR DRUG DELIVERY SYSTEM FOR INCREASED EFFICIENCY

<p>(51) International classification :A61F 090000, A61K 090000, A61P 270200, C08K 030400, G06F 074910</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Jitendra Gupta Address of Applicant :Associate Professor, Institute of Pharmaceutical Research, GLA University, Faculty Residence Block 10, Flat No. 404, GLA University, Mathura, Uttar Pradesh., India, Pin Code 281406 -----</p> <p>2)Dr Sachinkumar Dnyaneshwar Gunjal 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</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Jitendra Gupta Address of Applicant :Associate Professor, Institute of Pharmaceutical Research, GLA University, Faculty Residence Block 10, Flat No. 404, GLA University, Mathura, Uttar Pradesh., India, Pin Code 281406 -----</p> <p>2)Dr Sachinkumar Dnyaneshwar Gunjal Address of Applicant :Department of Pharmaceutics, Amrutvahini College of Pharmacy, Sangamner, Savitribai Phule Pune University, Maharashtra State, India. Pin-422605. -----</p> <p>3)Mr. Deepak Shrivastava Address of Applicant :Associate Professor Department of Pharmaceutical Chemistry, NMT GUJARATI COLLEGE OF PHARMACY INDORE, PU 4 SCHEME NO 54, Vijay nagar, Indore, Madhya Pradesh, India Pin code 452010 -----</p> <p>4)Ms. Swagatika Das Address of Applicant :Assistant professor Pharmacy, Centurion University of Technology and Management, Odisha, India Pin-756044 -----</p> <p>5)Dr Yella Sirisha Address of Applicant :Associate professor, Department of Pharmaceutics, Samskruti college of Pharmacy, kondapur, Ghatkesar, Medchal Malkajgiri, Telangana , INDIA- 501301. -----</p> <p>6)Dr Mohd Abdul Hadi Address of Applicant :Associate Professor Department of Pharmaceutics, Bhaskar Pharmacy College, Moinabad (M), Hyderabad, Telangana,India- 500075. -----</p> <p>7)Prof Chatlapelli kishore Address of Applicant :Assistant Professor, Department of Pharmaceutics Vaagdevi Institute of Pharmaceutical Sciences, Bollikunta, Warangal, Telangana-India,506005 -----</p> <p>8)Mr. Satyabrata Jena Address of Applicant :Associate Professor, Department of Pharmaceutics, Bhaskar Pharmacy College, Bhaskar Nagar, Amdhapur X- Roads, Yenkapally, Moinabad, Ranga Reddy District, Hyderabad, Telangana, India, 500075 -----</p> <p>9)Dr P Sobitha Rani Address of Applicant :Associate Professor, Dept of Pharmaceutics, Bhaskar Pharmacy College, Bhaskar Nagar,Moinabad, Rangareddy District, Hyderabad, India-500075 -----</p> <p>10)Dr Vikash Kumar Mishra Address of Applicant :Professor & Principal Ojaswini Pharmacy College, Sagar Madhya Pradesh. University Road,Pathariya Jat, Sagar, Madhya Pradesh, India-470228 -----</p> <p>11)Mr. Rakesh Swain Address of Applicant :Senior Research Fellow, Pharmaceutical Sciences, School of pharmaceutical sciences, SOA deemed to be university, Bhubaneswar, Odisha, India 751003 -----</p> <p>12)Dr Vankam Lokeswara Babu Address of Applicant :Associate Professor Dept of Pharmaceutics Bhaskar Pharmacy College, Yankapally (V), Moinabad (M), Rangareddy District. Hyderabad, Telangana,India,500075 -----</p>
---	--

(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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ADDITIONAL-EMAIL (As Per Record)	eggadi.ramesh@cutm.ac.in
E-MAIL (UPDATED Online)	
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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Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते



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
E-MAIL (As Per Record)	iprfilings@novelpatent.com
ADDITIONAL-EMAIL (As Per Record)	hima@novelpatent.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2023
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Ministry of Commerce & Industry,
Government of India



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
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	pprsservices21@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
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PUBLICATION DATE (U/S 11A)	24/03/2023



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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
E-MAIL (As Per Record)	subramaniannagu@gmail.com
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/04/2023

Application Status



सत्यमेव जयते

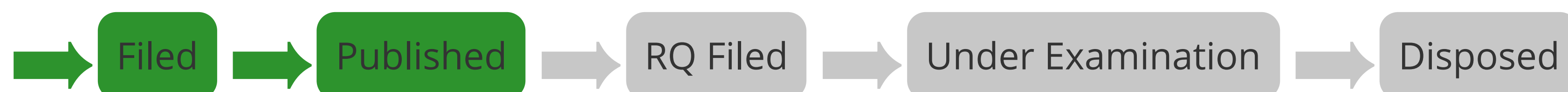
Application Details

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
E-MAIL (As Per Record)	03mrmanoj@gmail.com
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Application Status

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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
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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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. Shalendra Kumar Mittal 2 . Dr. Chandan Kumar Sahoo 3 . Dr. Kavita B. Bajpai 4 . Dr. Nellone Manoj Kumar 5 . Dr. Vijesh V V 6 . Ms. Niti Mittal 7 . Dr. Tirumalaraju Vidya Sagar 8 . Dr. Banitamani Mallik 9 . Dr. Palli 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
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)	17/03/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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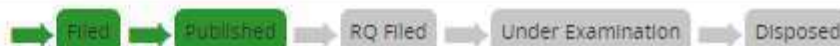
Application Details

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. Vjesh 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
E-MAIL (As Per Record)	03mrmano@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmano@gmail.com
E-MAIL (UPDATED Online)	
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REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	05/05/2023

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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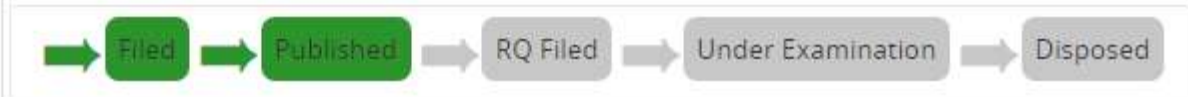
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Application Details	
APPLICATION NUMBER	202341069381
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/10/2023
APPLICANT NAME	1 . Dr. K. Jayalakshmi 2 . Dr. Banitamani Mallik 3 . Dr. M. Mary Jansi Rani 4 . Dr. K. Anuradha 5 . Dr. S. Vasantha 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
E-MAIL (As Per Record)	03mrmanoj@gmail.com
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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331038922 A

(19) INDIA

(22) Date of filing of Application :07/06/2023

(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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Name of Applicant : NA

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(72)Name of Inventor :

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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



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

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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
ADDITIONAL-EMAIL (As Per Record)	
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341023742 A

(19) INDIA

(22) Date of filing of Application :30/03/2023

(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 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)CH. LAKSHMI POORNIMA
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5)Mr. A. JOSEPH AROCKIAM
6)Mr. R. G. PADMANABHAN
7)Mr. SARATHI R
8)Mr. SRIRAM KARTHICK
9)Mr. VIKASH K
10)Dr. UMESH GUPTA
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
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4)Mr. MANAS RANJAN PADHI
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7)Mr. SARATHI R
 Address of Applicant :UG SCHOLAR – STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, ST. JOSEPH’S COLLEGE OF ENGINEERING, CHENNAI, 600119. -----

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10)Dr. UMESH GUPTA
 Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING DEPARTMENT VAISH COLLEGE OF ENGINEERING ROHTAK, 124001. -----

(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 environmental 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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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

(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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(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

(21) Application No.202331037113 A

(19) INDIA

(22) Date of filing of Application :30/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE TO ANALYSES THE EFFICIENCY OF PHOTOSYNTHESIS OF PLANTS ON THE AGRICULTURE

<p>(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</p>	<p>(71)Name of Applicant : 1)Dr. Tanmay Kumar Behera Address of Applicant :Project Scientist, Department of Computer Science and Engineering, National Institute of Technology Rourkela, Odisha-769008, India Rourkela ----- ----- 2)Ms. Sima Das 3)Ms. Camellia Ray 4)Dr. Sambit Bakshi 5)Prof. Nimay Chandra Giri Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Tanmay Kumar Behera Address of Applicant :Project Scientist, Department of Computer Science and Engineering, National Institute of Technology Rourkela, Odisha-769008, India Rourkela ----- 2)Ms. Sima Das Address of Applicant :Research Scholar, Department of Computer Science and Engineering, National Institute of Technology Rourkela, Odisha-769008, India Rourkela ----- 3)Ms. Camellia Ray Address of Applicant :Research Scholar, Department of Computer Science and Engineering, National Institute of Technology Rourkela, Odisha-769008, India Rourkela ----- 4)Dr. Sambit Bakshi Address of Applicant :Assistant Professor (Grade I), Department of Computer Science and Engineering, National Institute of Technology Rourkela, Odisha-769008, India Rourkela ----- ----- 5)Prof. Nimay Chandra Giri Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Centurion University of Technology and Management, Odisha-752050, India Odisha -----</p>
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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



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	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
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ADDITIONAL-EMAIL (As Per Record)	iprc@vidyanikethan.edu
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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[View Documents](#)

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231074745 A

(19) INDIA

(22) Date of filing of Application :23/12/2022

(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



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2024 Patent Details

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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 / Inventor

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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 यथाप्रकरित **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.



(Signature)
इन्वेंटर की संज्ञित

पेटेंट नियंत्रक
Controller of Patents

अनुदान की तारीख : 08/05/2024
Date of Grant :

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 में 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

(21) Application No.202431039879 A

(19) INDIA

(22) Date of filing of Application :22/05/2024

(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

(21) Application No.202431043846 A

(19) INDIA

(22) Date of filing of Application :06/06/2024

(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

(21) Application No.202431039879 A

(19) INDIA

(22) Date of filing of Application :22/05/2024

(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

(21) Application No.202431017515 A

(19) INDIA

(22) Date of filing of Application :11/03/2024

(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 :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA
Filing Date

(62) Divisional to Application Number :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

(54) Title of the invention : INTERNET OF THINGS AND BLOCKCHAIN REVOLUTIONARY INTEGRATION IN BUSINESS AND FINANCIAL SECTOR

<p>(51) International classification :G06Q0040020000, G06Q0010080000, G06K0019070000, H04L0009320000, H04L0009060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Ch Sudipta Kishore Nanda Address of Applicant :Assistant Professor - II, Department of Commerce, School of Tribal Resource Management, KISS Deemed to be University, Bhubaneswar, Odisha, India. Bhubaneswar ----- 2)Dr.Sakshi Kathuria 3)Sreekanth Dekkati 4)Dr. Parle Kalyan Chakravarthy 5)Arhath Kumar 6)Dr. Rajani Nallanagula 7)Dr K Venkata Naganjaneyulu Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Ch Sudipta Kishore Nanda Address of Applicant :Assistant Professor - II, Department of Commerce, School of Tribal Resource Management, KISS Deemed to be University, Bhubaneswar, Odisha, India. Bhubaneswar ----- 2)Dr.Sakshi Kathuria Address of Applicant :Assistant professor, School of Computer Science and Engineering, K.R.Mangalam University, Gurugram, Haryana, India. Gurugram ----- 3)Sreekanth Dekkati Address of Applicant :Assistant Vice President (System Administrator), MUFG Bank, New York, USA. ----- 4)Dr. Parle Kalyan Chakravarthy Address of Applicant :Associate Professor, School of Management, Centurion University of Technology and Management, Paralakhemundi, Gajapathi District, Odisha, India. Gajapathi --- ----- 5)Arhath Kumar Address of Applicant :Assistant Professor, Department of MCA, NMAM institute of Technology, Nitte (Deemed to be University), Karnataka, India. ----- 6)Dr. Rajani Nallanagula Address of Applicant :Professor & Registrar, Sri Padmavati Mahila Visvavidyalayam, Women's University, Tirupati, Andhra Pradesh, 517502, India. Tirupati ----- 7)Dr K Venkata Naganjaneyulu Address of Applicant :Professor, Department of CSE, Lords Institute of Engineering & Technology (UGC AUTONOMOUS), OU, Hyderabad, Telangana. India. Hyderabad ----- -----</p>
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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

(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
Filing Date :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.

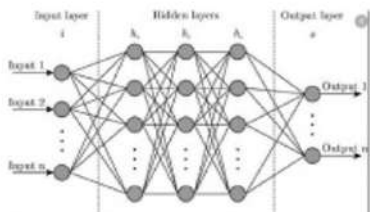


Fig-1 Architecture of a standard multilayer feedforward neural network.

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

(54) Title of the invention : NANOFERTILIZERS A FUTURISTIC TECHNOLOGY OF NUTRIENT MANAGEMENT IN AGRICULTURE

<p>(51) International classification :C05C9/00, C05D9/02, C05G1/00, C05G3/00, C05G3/80, C05G3/90, C05G5/23</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Meenakshi Attri Address of Applicant :Teaching Associate, Division of Agronomy, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha - 180009, India Chatha ----- 2)Dr. Neetu Sharma 3)Dr. Rakesh Kumar 4)Mr. Vivek Bhagat 5)Ms. Seema Pooniyan 6)Ms. Chanchal 7)Dr. Nimay Chandra Giri Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Meenakshi Attri Address of Applicant :Teaching Associate, Division of Agronomy, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha - 180009, India Chatha ----- 2)Dr. Neetu Sharma Address of Applicant :Professor, Division of Agronomy, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha - 180009, India Chatha ----- 3)Dr. Rakesh Kumar Address of Applicant :Assistant Professor, Division of Agronomy, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha - 180009, India Chatha ----- 4)Mr. Vivek Bhagat Address of Applicant :Ph.D. Research Scholar Division of Agronomy, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha - 180009, India Chatha ----- 5)Ms. Seema Pooniyan Address of Applicant :Ph.D. Research Scholar, Department of Soil Science and Agricultural Chemistry, Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur - 313001, Rajasthan, India Udaipur ----- 6)Ms. Chanchal Address of Applicant :Ph.D. Research Scholar, Division of Agricultural Extension Education, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Chatha - 180009, India Chatha ----- 7)Dr. Nimay Chandra Giri Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Centurion University of Technology and Management, Odisha - 752050, India Boudh -----</p>
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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% -1-1recommended 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

(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

(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 :NA
Filing Date :NA

(87) International Publication No : NA

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

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

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(57) Abstract :

The combination of 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

(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

<p>(51) International classification :G06Q0010060000, G06N0020000000, G06N0005040000, G06Q000900000000, G06Q0050260000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.A.Srinivas Reddy Address of Applicant :Associate Professor, Department of Zoology, Government Degree College, Rangasaipet, Warangal, Telangana, India, 506035 ----- 2)Dr. Shantanu Bhattacharyya 3)Dr. Pratibha Rani Deep 4)Ms. T. Manasa 5)Rajendra Sahebrao Magar 6)Dr. A. Yaquin 7)Dr. Sumanta Bhattacharya 8)Dr.Suniti Kumar Kuriyal 9)Dr. Avadhesh Kumar Koshal 10)Dr. Droupiti Yadav 11)Anthony Savio Herminio Da Piedade Fernandes 12)Prem Chandra Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.A.Srinivas Reddy Address of Applicant :Associate Professor, Department of Zoology, Government Degree College, Rangasaipet, Warangal, Telangana, India, 506035 ----- 2)Dr. Shantanu Bhattacharyya Address of Applicant :Assistant Professor and HOD, Department of Botany, School of Applied Science (Bolangir Campus), Centurion University of Technology and Management, Bolangir, Odisha, India ----- 3)Dr. Pratibha Rani Deep Address of Applicant :Assistant Professor Botany, Department of Botany, School of Applied Sciences (Bolangir Campus), Centurion University of Technology and Management, Bolangir, Odisha, India ----- 4)Ms. T. Manasa Address of Applicant :Assistant Professor, CSE(AIML), Institute of Aeronautical Engineering College, Hyderabad, Medchal, Telangana, India, 500043 ----- 5)Rajendra Sahebrao Magar Address of Applicant :HOD/ Department of Zoology, Shri Datta ACS College, Hadgaon, Nanded, Maharashtra, India ----- 6)Dr. A. Yaquin Address of Applicant :Retd. Head of Dept. of Zoology, L.S. College, Pin 842001, Muzaffarpur, Bihar, India --- 7)Dr. Sumanta Bhattacharya Address of Applicant :Research Scholar, Textile Technology, Makaut, Kolkata, 700064, West Bengal, India --- 8)Dr.Suniti Kumar Kuriyal Address of Applicant :Senior Assistant Professor, Pt.L.M.S.Sridev Suman Uttarakhand University Campus, Rishikesh, Dehradun, Uttarakhand, India ----- 9)Dr. Avadhesh Kumar Koshal Address of Applicant :Professor, Faculty of Science, Motherhood University, Roorkee, Haridwar, Uttarakhand, PIN 247661, India ----- 10)Dr. Droupiti Yadav Address of Applicant :Assistant Professor and Coordinator, Environmental Science and Technology, SLSBT, CSJM University, Kanpur Nagar, Uttar Pradesh, India (Pincode-208024) ----- 11)Anthony Savio Herminio Da Piedade Fernandes Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa (403507), India ----- 12)Prem Chandra Address of Applicant :201, 2/96, Sector-2, Rajendra Nagar, Sahibabad, Ghaziabad, Uttar Pradesh, 201005, India -----</p>
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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

(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

<p>(51) International classification :G06Q0010060000, G06N0003080000, G06Q0010080000, G06Q0030000000, G06Q0050020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dharm Beer Singh Address of Applicant :Campus Director, Doon Business School, 122 Mi, Behind Pharma City, Selaqui, Dehradun 248011 Dehradun -----</p> <p>2)Dr. Shantanu Bhattacharyya</p> <p>3)Ms. Pratima Sahu</p> <p>4)M. Janani</p> <p>5)Dr. Pratibha Rani Deep</p> <p>6)Dr. Gandhi N</p> <p>7)Y. Rama Govinda Reddy</p> <p>8)Harshit Girdhar</p> <p>9)Dr. A Sreenivas</p> <p>10)Dr. T. ArunKumar</p> <p>11)Yudhveer Singh Moudgil</p> <p>12)Dr. Chiranjib Goswami</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dharm Beer Singh Address of Applicant :Campus Director, Doon Business School, 122 Mi, Behind Pharma City, Selaqui, Dehradun 248011 Dehradun -----</p> <p>2)Dr. Shantanu Bhattacharyya Address of Applicant :Assistant Professor and HoD, Department of Botany, Centurion University of Technology and Management, Orissa, India Bolangir -----</p> <p>3)Ms. Pratima Sahu Address of Applicant :Assistant Professor, Department of Science, Shri Rawatpura Sarkar University, Raipur, Chhattisgarh, 492015 Raipur -----</p> <p>4)M. Janani Address of Applicant :Assistant Professor/ Information Technology, St. Joseph's College of Engineering, Chennai -119 Chennai -----</p> <p>5)Dr. Pratibha Rani Deep Address of Applicant :Department of Botany, School of Applied Sciences,Centurion University of Technology and Management, India 767001 Bolangir -----</p> <p>6)Dr. Gandhi N Address of Applicant :Chief scientific officer, Research and development wing, Metagro pvt, ltd, kavurihills, madhapur, Hyderabad Hyderabad -----</p> <p>7)Y. Rama Govinda Reddy Address of Applicant :Associate Dean, Green Fields Institute of Agriculture, Research and Training, koheda road, mangalpalli, ibrahimpatnam, Ibrahimpattanam -----</p> <p>8)Harshit Girdhar Address of Applicant :Undergraduate Student and Data Scientist,Indian Institute of Information Technology, Kota Faridabad -----</p> <p>9)Dr. A Sreenivas Address of Applicant :Associate Professor, Department of Botany, SRR Government Arts and Science College (A) Karimnagar, Karimnagar, 505001 Karimnagar -----</p> <p>10)Dr. T. ArunKumar Address of Applicant :Assistant Professor/ Chemistry, SNS College of Technology, Coimbatore, 641 035 Coimbatore -----</p> <p>11)Yudhveer Singh Moudgil Address of Applicant :Assistant professor Dev Bhoomi Utrakhnad University Dehradun -----</p> <p>12)Dr. Chiranjib Goswami Address of Applicant :Assistant Professor, Department of ECE, Asansol Engineering College, Asansol, Pin-713305 Asansol -----</p>
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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

(21) Application No.202431067767 A

(19) INDIA

(22) Date of filing of Application :07/09/2024

(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 :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :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

(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)

<p>(51) International classification :A61P0025000000, A61P0025280000, A61P0003100000, A61K0036420000, A61P0025160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Bhubaneswar Campus, Ramachandra Pur, Jatani, Khordha - 752050, Odisha, India Khordha -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Yashaswi Nayak Address of Applicant :Associate Professor & Dean, Department of Zoology School of Applied Science(SoAS) Centurion University of Technology & Management Bhubaneswar Campus, Ramachandra Pur, Jatani, Khordha - 752050, Odisha, India Khordha -----</p> <p>2)Mr. Sanjib Kumar Mohanty Address of Applicant :Ph.D. Research Scholar, Department of Zoology School of Applied Science(SoAS) Centurion University of Technology & Management Bhubaneswar Campus, Ramachandra Pur, Jatani, Khordha - 752050, Odisha, India Khordha -----</p> <p>3)Dr. Manorama Patri Address of Applicant :Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Dharamsala - 176215, Himachal Pradesh, India Dharamsala -----</p> <p>4)Dr. Satyasis Mishra Address of Applicant :Professor, Dept. of ECE Dean Sustainable Development Goals FIE, Centurion University of Technology and Management Bhubaneswar Campus, Ramachandra Pur, Jatani, Khordha - 752050, Odisha, India Khordha -----</p>
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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

(21) Application No.202431067384 A

(19) INDIA

(22) Date of filing of Application :06/09/2024

(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 :NA
 Filing Date :NA

(87) International Publication No : NA

(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 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



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(54) Title of the invention : CANINE RESTRAINING CLINICAL GADGET FOR MEDICAL AND SURGICAL APPLICATIONS

(51) International classification :A61F0005370000, E04G0021320000, A63B0021000000, A63B0001000000, A61D0003000000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 Abstract CANINE RESTRAINING CLINICAL GADGET FOR MEDICAL AND SURGICAL APPLICATIONS The present invention relates to a manoeuvrable canine restraining clinical gadget designed for secure and humane restraint during veterinary interventions. The gadget comprises a stable base platform, a vertical support frame, and a horizontal bar with multiple holes for adjustable placement of S-shaped hooks. A restraint harness is suspended from the hooks, featuring limb holes to accommodate canines of varying breeds and sizes, including additional holes for smaller dogs. The harness is made of durable, washable, and non-irritating fabric to ensure comfort and safety. The gadget's modular design enables disassembly and reassembly for ease of transport and storage. The S-shaped hooks allow mild swinging movements to reduce stress during restraint. Constructed from high-strength materials, the gadget facilitates procedures such as drug administration, minor surgeries, and wound care, offering an efficient and humane solution f

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431096778 A

(19) INDIA

(22) Date of filing of Application :07/12/2024

(43) Publication Date : 10/01/2025

(54) Title of the invention : SMART AND SUSTAINABLE IOT-INTEGRATED LANDSCAPE SYSTEM

(51) International classification :A01G0025160000, H04L0067120000, A61M0021000000, A01G0022600000, G07C0009000000

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

(87) International Publication No : NA

(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 SMART AND SUSTAINABLE IOT-INTEGRATED LANDSCAPE SYSTEM The invention relates to a Smart and Sustainable IoT-Integrated Garden Management System designed to optimize resource use and enhance the functionality of outdoor spaces. The system employs IoT-enabled sensors to monitor critical environmental parameters such as soil moisture, temperature, and humidity. Automated irrigation and lighting systems operate based on real-time sensor data, ensuring efficient resource utilization. A web-based or mobile application allows users to remotely monitor and control garden systems globally. The design emphasizes sustainability through the use of renewable energy sources, recycled materials, and native plant species, promoting biodiversity and eco-friendliness. Additionally, the system integrates wellness-oriented features, including sensory garden zones and interactive water elements, fostering relaxation and mental well-being. The invention is ideal for urban landscapes, educational campuses, and therapeutic gardens, offering a harmonious blend of technology, sustainability, and aesthetics. This innovation provides a versatile and efficient solution for modern landscape management.

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

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING AND MANAGING LIQUID NITROGEN CYLINDERS IN BIOMEDICAL APPLICATIONS

<p>(51) International classification :H04W0088020000, G01F0023000000, A61D0019020000, G06F0009500000, A01N0001020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DASH ASHISH RANJAN Address of Applicant :Centurion University, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi - -----</p> <p>2)SRI BUDDHA. DIVYA Address of Applicant :Centurion University, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi - -----</p> <p>3)SWAIN RAJ KISHORE Address of Applicant :Centurion University, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi - -----</p> <p>4)BENARJI KOILADA Address of Applicant :Centurion University, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi - -----</p> <p>5)MISHRA RAJESH KUMAR Address of Applicant :Centurion University, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi - -----</p> <p>6)PARMANIK KARTIK Address of Applicant :Centurion University, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi - -----</p>
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(57) Abstract :
ABSTRACT SYSTEM AND METHOD FOR MONITORING AND MANAGING LIQUID NITROGEN CYLINDERS IN BIOMEDICAL APPLICATIONS The present invention relates to a system and method for monitoring and managing liquid nitrogen (LN2) levels, temperature, and semen straw inventory in a liquid nitrogen storage cylinder. The system comprises a plurality of sensors for measuring the liquid nitrogen level, temperature, and the number of semen straws stored inside the cylinder. A central processing unit (CPU) processes the sensor data and provides real-time information on these parameters through a digital display. The system also includes an alert mechanism that notifies users if any monitored parameter exceeds predefined threshold limits. Additionally, the system supports remote monitoring via an online platform or mobile application, enabling users to access data and receive alerts remotely. This innovation improves the efficiency and accuracy of semen storage management, reduces nitrogen loss, and ensures the integrity of stored semen samples for assisted reproductive procedures.

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

(54) Title of the invention : AN IN SILICO METHOD FOR IDENTIFICATION OF A PERTURBATION RELATED TO KYNURENINE PATHWAY

(51) International classification :G16B0005000000, G16H0050500000, A61P0025280000, G16B0035000000, G16B0035200000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 ABSTRACT An in silico Method for Identification of a Perturbation Related to Kynurenine Pathway The present invention relates to an in silico method for identification of a perturbation, said method comprising: a) providing a selected stimulus to be tested to a kynurenine pathway traced on Java Web Simulation (JWS), wherein the kynurenine pathway is provided with an informational data related with an enzyme kinetic and feedback inhibition profile of enzymes involved in pathway; b) feeding information related to molecule/substance to be tested, enzyme to be checked for perturbation along with relate enzyme kinetics; and c) predicting perturbation on the basis of information fed and applying corresponding rate law equation. Said method capturing complete tryptophan metabolism and incorporating feedback inhibition mechanisms for two crucial enzymes: Quinolinate Phosphoribosyltransferase (QPRT) and Kynurenine 3-Monooxygenase (KMO), provides real-time simulation and to identify perturbation caused in pathway behaviour under varying physiological and pathological conditions/ stimulus.

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

(54) Title of the invention : CANINE RESTRAINING CLINICAL GADGET FOR MEDICAL AND SURGICAL APPLICATIONS

(51) International classification :A61F0005370000, E04G0021320000, A63B0021000000, A63B0001000000, A61D0003000000

(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 :
 Abstract CANINE RESTRAINING CLINICAL GADGET FOR MEDICAL AND SURGICAL APPLICATIONS The present invention relates to a manoeuvrable canine restraining clinical gadget designed for secure and humane restraint during veterinary interventions. The gadget comprises a stable base platform, a vertical support frame, and a horizontal bar with multiple holes for adjustable placement of S-shaped hooks. A restraint harness is suspended from the hooks, featuring limb holes to accommodate canines of varying breeds and sizes, including additional holes for smaller dogs. The harness is made of durable, washable, and non-irritating fabric to ensure comfort and safety. The gadget's modular design enables disassembly and reassembly for ease of transport and storage. The S-shaped hooks allow mild swinging movements to reduce stress during restraint. Constructed from high-strength materials, the gadget facilitates procedures such as drug administration, minor surgeries, and wound care, offering an efficient and humane solution f

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

(54) Title of the invention : ADVANCED ELECTRO-HYDRAULIC APPARATUS FOR LARGE ANIMALS

(51) International classification :A61D0003000000, A61D0007040000, B65D0088520000, A01K0027000000, F16M0011180000

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

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT ADVANCED ELECTRO-HYDRAULIC APPARATUS FOR LARGE ANIMALS The Advanced Electro-Hydraulic Surgical apparatus for large animals is an innovative solution to meet the challenges of large animal surgeries. This ergonomic, durable, and cost-effective apparatus features a motorized hydraulic lifting system powered by a 2.5 kW electric motor, enabling height adjustments from 0.40 m to 1.60 m. The apparatus includes a robust scissor mechanism with high-strength connections and pins for smooth vertical movement and a load capacity of up to 3 tons. A rust-proof top plate with integrated side poles ensures secure animal restraint during procedures. Designed for ease of use, the apparatus incorporates wheels with locking mechanisms for mobility and stability, along with modular components for simplified assembly and maintenance. Its hygienic, non-porous surfaces enhance infection control. This invention addresses limitations in existing solutions, offering improved safety, precision, and convenience for veterinary professionals in hospitals, clinics, and research institutions.

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

(54) Title of the invention : SELF-HEALING SUPERCONCENTRATED GEL ELECTROLYTE FOR ENERGY STORAGE DEVICES WITH ENHANCED PERFORMANCE

<p>(51) International classification :H01M0010056500, H01M0010052500, H01M0010056900, H01M0004525000, H01M0010056800</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RAJALXMI PANDA Address of Applicant :Centurion University Of Technology And Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p> <p>2)SUSANTA KUMAR BISWAL Address of Applicant :Centurion University Of Technology And Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p> <p>3)SUBHRARAJ PANDA Address of Applicant :Centurion University Of Technology And Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p>
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(57) Abstract :
 Abstract SELF-HEALING SUPERCONCENTRATED GEL ELECTROLYTE FOR ENERGY STORAGE DEVICES WITH ENHANCED PERFORMANCE The present invention relates to a self-healing superconcentrated gel electrolyte designed for energy storage systems, including lithium-ion and zinc-ion batteries. The electrolyte comprises lithium bis(trifluoromethanesulfonyl)imide (LiTFSI) dissolved in a solvent system of ethylene carbonate and dimethyl carbonate, combined with a polymer matrix of poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF-HFP) and polyethylene oxide (PEO). Temperature-adaptive additives, silica nanoparticles, and tetrabutylammonium bromide enhance thermal stability and ionic conductivity, while a cross-linking agent, polyethylene glycol diacrylate (PEGDA), ensures self-healing functionality. The electrolyte demonstrates an ionic conductivity of 10.2 mS/cm at 25°C, operates over a wide temperature range (-40°C to 120°C), and autonomously repairs microcracks within 10 minutes. This invention is suitable for applications in wearable electronics, flexible energy storage devices, and extreme-environment systems, offering enhanced safety, durability, and performance for next-generation energy storage solutions.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531018713 A

(19) INDIA

(22) Date of filing of Application :03/03/2025

(43) Publication Date : 21/03/2025

(54) Title of the invention : ROTARY MODULAR TRELIS SYSTEM FOR VERTICAL FARMING

<p>(51) International classification :A01G0009240000, A01G0009020000, A01G0027020000, A01G0027000000, A01G0031060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mukti Kanta Mishra Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>2)D. N. Rao Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>3)David Soo Address of Applicant :Sydney, New South Wales, Australia Sydney -----</p> <p>4)Babu Shankar Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>5)Mukundjee Pandey Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>6)N. Laxmidhar Reddy Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>7)Sadat Ali Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>8)Ashish Ranjan Dash Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p> <p>9)A. M. Mohanty Address of Applicant :Centurion University Of Technology And Management, Ramachandrapur, Jatni, Odisha – 752050, India Jatni -----</p>
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(57) Abstract :
Abstract ROTARY MODULAR TRELIS SYSTEM FOR VERTICAL FARMING The present invention discloses a modular rotary trellis system (100) for vertical farming and controlled agriculture. It comprises a central rotary hub (15) with a motorized gear system (200) on a motor stand (16), enabling 360-degree plant rotation for optimized solar exposure. Modular trellis arms (27) are attached to an inner ring (3) and outer ring (4) for adaptability. Vertical columns (5) provide support, while planter boxes (8) and trays (10) manage irrigation and aeration. Micro-irrigation channels, humidity sensors, and aerated root zones ensure precise environmental control. IoT-enabled automation regulates rotation, irrigation, and climate. Connectors (11), flanges (26), collars (1), and nut & bolt components (22,23,24,25) support modular assembly. Castor wheels (14) allow reconfiguration. Designed for geodesic dome compatibility, it optimizes light diffusion, environmental stability, and plant growth efficiency for urban farming and non-

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

(54) Title of the invention : FOOT BATH SYSTEM FOR FARM ANIMALS

<p>(51) International classification :A01K13/00</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M.G. Jayathangaraj Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 2)Chaitanya Gollu Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 3)N. Likitha Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 4)B.V.S. Bhavya Charitha Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 5)Munagala Sree Vidhya Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 6)B. Divya Sri Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 7)Deepthi Chandaka Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 8)G. Jahnavi Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 9)P. Avinash Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 10)R. Prem Kumar Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 11)B. Sonia Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p>
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(57) Abstract :
ABSTRACT FOOT BATH SYSTEM FOR FARM ANIMALS The present invention relates to a foot bath system for dairy animals, comprises an external protector (100) made of high-density foam (3) with a Velcro fastening system (2), an internal applicator (200) for controlled chemical dispensing, and a stable, non-slip foot bath base unit. The system incorporates an adjustable chemical dosing mechanism, a self-draining system for hygiene control, and a sensor-based activation system to optimize chemical usage. A modular design allows customization based on farm size and animal breed. The system is portable, easy to maintain, and adaptable for veterinary and dairy farm applications.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531037297 A

(19) INDIA

(22) Date of filing of Application :17/04/2025

(43) Publication Date : 25/04/2025

(54) Title of the invention : MODULAR URBAN DRAINAGE SYSTEM FOR CLIMATE ADAPTATION

(51) International classification :G06Q0050260000, E03F0001000000, H04L0067120000, E03F0003020000, G08B0021100000

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

(87) International Publication No : NA

(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 MODULAR URBAN DRAINAGE SYSTEM FOR CLIMATE ADAPTATION The present invention discloses a Climate-Adaptive Urban Drainage System (CAUDS) for mitigating urban flooding through real-time data-driven infrastructure adjustments. The system integrates IoT sensors (rainfall, soil moisture, flow/pressure sensors), machine learning (ML) models, and modular adaptive hardware to dynamically optimize drainage performance during extreme weather. IoT sensors transmit environmental data to a predictive ML engine, which employs LSTM networks and CNNs to forecast flooding risks and generate actionable commands. Modular components—smart valves with PID control, expandable HDPE pipes (300–450 mm), and permeable pavers—autonomously adjust flow rates, storage capacity, and infiltration efficiency. A Central Control Unit (CCU) coordinates real-time adjustments, interfaces with smart city platforms, and prioritizes groundwater recharge via bio-retention units. The invention reduces retrofitting costs by 40%, curtails flood downtime by 65%, and aligns with sustainable urban development goals.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/05/2025

(21) Application No.202531042789 A
(43) Publication Date : 16/05/2025

(54) Title of the invention : A SYSTEM AND METHOD FOR LANDSLIDE PREVENTION AND SLOPE STABILIZATION

(51) International classification :E02D0017200000, A01G0022000000, E02D0029020000, E02B0011000000, E03F0003020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Abstract A SYSTEM AND METHOD FOR LANDSLIDE PREVENTION AND SLOPE STABILIZATION The present invention discloses an integrated, cost-effective system and method for stabilizing slopes and preventing landslides, specifically designed for rural and economically constrained regions. The invention involves constructing sequentially terraced slope segments reinforced structurally using locally sourced bamboo or timber arranged in crib-wall configurations. An integrated drainage system comprising surface diversion channels and subsurface drainage pipes is embedded to manage water flow effectively. Bioengineering techniques involving systematic planting of deep-rooted vegetation, such as vetiver grass, further enhance slope stability through natural root reinforcement. The invention's methodology emphasizes simple, accessible construction techniques executable using manual labor and basic tools, avoiding the need for heavy machinery or specialized technical knowledge. Overall, the invention provides immediate structural

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/05/2025

(21) Application No.202531044702 A
(43) Publication Date : 16/05/2025

(54) Title of the invention : METHOD FOR EMERGENCY GROUNDWATER RECHARGE USING TEMPORARY POP-UP RECHARGE WELLS IN URBAN FLOOD ZONES

(51) International classification :E03F0001000000, E02B0011000000, E21B0043080000, G06Q0050260000, C02F0001280000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Abstract METHOD FOR EMERGENCY GROUNDWATER RECHARGE USING TEMPORARY POP-UP RECHARGE WELLS IN URBAN FLOOD ZONES The present invention relates to a method for emergency groundwater recharge in urban flood zones using temporary pop-up recharge wells. The method comprises identifying flood-prone locations with permeable soil, excavating shallow cylindrical pits, and installing modular, perforated cylindrical casings filled with layered filtration media including gravel, sand, and activated carbon or biochar. Wrapped in geotextile fabric, the casing allows stormwater runoff to be filtered and percolated into the subsoil through its perforated structure, thereby facilitating rapid recharge of groundwater during intense rainfall events. The system is designed to be low-cost, manually deployable, reusable, and does not require powered equipment or electronics. Optional features include overflow outlets, debris guards, and flexible inlet hoses. The invention provides a scalable and sustainable solution for mitigating u

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431051094 A

(19) INDIA

(22) Date of filing of Application :03/07/2024

(43) Publication Date : 20/06/2025

(54) Title of the invention : A method for extracting essential oil from black turmeric (*Curcuma caesia*) rhizomes

(51) International classification :A61K0036906600, C11B0009020000, A61P0017020000, A61K0008920000, A61P0003040000
(86) International Application No :NA
Filing 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 present invention relates to a method for extracting essential oil from black turmeric (*Curcuma caesia*) rhizomes. Through a hydro-distillation method utilizing the Clevenger apparatus, essential oil is extracted from air-dried black turmeric rhizomes, optimizing parameters such as time, heating power, and solid-to-solvent ratio to maximize yield. The extracted essential oil is then evaluated for its wound healing potential using MDA-MB231 cells via a scratch-wound assay. Results demonstrate that essential oil concentrations of 0.01%, 0.05%, and 1% exhibit dose-dependent enhancement in wound healing efficiency compared to untreated controls. Particularly, treatment with essential oil at a concentration of 1% significantly accelerates wound closure, outperforming lower concentrations. Additionally, the essential oil promotes wound healing by enhancing keratinocyte proliferation and migration, crucial processes for wound closure.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531056060 A

(19) INDIA

(22) Date of filing of Application :10/06/2025

(43) Publication Date : 20/06/2025

(54) Title of the invention : LYCOPENE LOADED SKINCARE NANO-COMPOSITION AND METHOD OF PREPARATION THEREOF

(51) International classification :A61K0008920000, A61Q0019000000, C11D0009380000, A61P0029000000, A61P0017020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Disclosed herein is a lycopene loaded skincare nano-composition and method of its preparation. The method comprises steps of: adding (S1) 50 wt% cetyl alcohol with 50 wt% stearic acid to obtain a reaction mixture (100); blending (S2) 6-7 v% glycerine, 89-90 v% distilled water, and 4-5 v% kesar water to obtain a water phase mixture (200); mixing (S3) 75-76 wt% almond oil, 4-5 wt% shea butter, and 20-21 wt% glyceryl monostearate to obtain an oil phase mixture (300); incubating (S4) the reaction mixture (100), the water phase mixture (200) and the oil phase mixture (300) simultaneously in three containers in a hot water bath at 70-75 oC for 30-40 minutes; transferring (S5) the water phase mixture (200) and the oil phase mixture (300) in the reaction mixture (100) filled container under continuous stirring for 10-15 minutes to result in uniform emulsification (400); dissolving (S6) 98-99 wt% lycopene in 1-2 wt% Polyethylene glycol 300 (PEG-300) under ice-bath sonication followed by cooling to obtain a nano-compound mixture (500); and pouring (S7) the nano-compound mixture (500) in the emulsified resultant (400) containing container under continuous stirring for upto 15 minutes at 25-35 oC to obtain the final skincare nano-composition (600). Fig. 1

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

(54) Title of the invention : HUMANE - CANINE TRAP CAGE

<p>(51) International classification : A61P0043000000, A01K0015020000, E04B0001800000, A61K0033300000, A23K0050400000</p> <p>(86) International Application No : NA Filing Date : NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA Filing Date : NA</p> <p>(62) Divisional Application Number : NA Filing Date : NA</p>	<p>(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M.G. Jayathangaraj Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 2)G. Chaitanya Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 3)A. Udaya Kiran Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 4)N. Likitha Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 5)B. Sonia Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 6)B.V.S. Bhavya Charitha Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 7)T.P. Balagopalan Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 8)R.K. Swain Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 9)Singampalli Nohini Sandhya Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi ----- 10)Avinash Palli Address of Applicant :Centurion University of Technology and Management, Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi -----</p>
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(57) Abstract :
The present invention describes a Humane-Animal Trap Cage (100) meticulously designed for the stress-free, efficient, and safe capture of stray dogs. This innovative cage (100) features a robust and durable construction, utilizing materials like zinc sheets and MS bars for longevity. A key component is its unique one-side movable entry system (101), which intelligently allows a dog to enter while effectively preventing its escape. The cage (100) incorporates internal movable barriers (103) for secure containment and strategically placed access windows for convenient veterinary intervention, such as drug administration, minimizing animal stress. Furthermore, it is equipped with fibre-based wheels (303) and durable iron handles (102), enhancing its mobility and ease of transport. The present invention presents a humane, highly efficient, and cost-effective alternative to traditional, often traumatic, dog capture methods, significantly improving animal welfare during the trapping process.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531064709 A

(19) INDIA

(22) Date of filing of Application :07/07/2025

(43) Publication Date : 18/07/2025

(54) Title of the invention : A MAGNETICALLY SEPARABLE NANOCOMPOSITE MATERIAL FOR THE REMOVAL OF HEAVY METAL IONS

(51) International classification :C02F1/28, B82Y30/00, B82Y40/00, B01J35/45, B01J35/33, B01J20/28, B01J20/30, C01G49/08

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

(87) International Publication No : NA

(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 magnetically separable, biodegradable nanocomposite material for removing heavy metal contaminants from water. The nanocomposite comprises iron oxide (Fe₃O₄) and magnesium oxide (MgO) nanoparticles uniformly embedded within a biopolymer matrix selected from chitosan or sodium alginate. The material is synthesized via an eco-friendly, one-pot co-precipitation method under mild conditions without using toxic reagents. The composite exhibits strong magnetic responsiveness for easy separation and high adsorption efficiency for heavy metals such as lead, cadmium, arsenic, chromium, mercury, and copper. The biopolymer matrix prevents nanoparticle agglomeration and contributes additional binding sites. The nanocomposite can be formed into beads or films, reused across multiple treatment cycles, and regenerated using dilute acid. The invention offers a low-cost, scalable, and sustainable solution for water purification, suitable for industrial, domestic, and decentralized applications.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/07/2025

(21) Application No.202531065328 A
(43) Publication Date : 18/07/2025

(54) Title of the invention : HYBRID THERMAL REGULATION SYSTEM USING WALL AND FLOOR PCMS

(51) International classification :F24F0011300000, E04B0001760000, B32B0027300000, F24F0011620000, F24D0019100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(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 hybrid thermal regulation system integrated into building walls and floors using phase-change materials (PCMs) for passive and active temperature control. The system comprises wall panels (101) embedded with microencapsulated, bio-based organic PCMs and floor modules (104) containing salt-hydrate-based inorganic PCMs enclosed in sealed, thermally conductive containers. A control unit (105) monitors indoor and outdoor temperatures and manages heat storage and release by enabling passive operation or activating ventilation fans (106) and a hydronic circulation loop as needed. The present invention provides a modular, safe, and energy-efficient solution to reduce reliance on conventional HVAC systems by storing excess heat during peak periods and releasing it during cooler times. The materials, encapsulation, and integration techniques are optimized in the present invention to ensure long-term durability, fire safety, and ease of installation. The system is suitable for both new constructions and retrofitting in residential and commercial buildings.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531065572 A

(19) INDIA

(22) Date of filing of Application :09/07/2025

(43) Publication Date : 18/07/2025

(54) Title of the invention : PRECISION BLOOD COLLECTION DEVICE WITH INTEGRATED VACUTAINER

(51) International classification :A61B0005150000, A61B0005154000, F02D0009100000, G06Q0020380000, G01N0033543000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(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 precision blood collection device (100) featuring dual butterfly-type needles (101,102) connected via a flexible medical-grade tube (103). The device (100) facilitates secure venipuncture and offers dual functionality compatible with both standard vacutainer tubes (104) and manual vacuum generation using a syringe (301) making it ideal for human and veterinary applications, especially in emergency and resource-limited settings. Its structure reduces patient stress, prevents needle dislodgement, and ensures high collection efficiency in diverse medical contexts.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531079524 A

(19) INDIA

(22) Date of filing of Application :21/08/2025

(43) Publication Date : 29/08/2025

(54) Title of the invention : AN EVACUATED SOLAR COLLECTOR SYSTEM FOR EFFICIENT WATER HEATING

(51) International classification :F24S0010400000, F24S0010750000, F24S0060300000, F24D0017000000, F24S0080300000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

ABSTRACT A SOLAR COLLECTOR SYSTEM FOR EFFICIENT WATER HEATING The present invention relates to a solar water heating system (100) employing an optimized evacuated tube solar collector (ETSC) designed for enhanced thermal performance and energy efficiency. The present invention provides a cost-effective system utilizing a high-conductivity absorber plate (103) or copper pipe (102) network encased in vacuum-sealed glass tubes to substantially minimize heat loss due to convection and radiation. A transparent glazing cover sheet (103), insulation layers, and a thermosyphon-enabled insulated water storage tank (104) or solar tank (104) further augment the system's efficiency. The structure of the system (100) is tailored using readily available and low-cost materials, making the system (100) adaptable for domestic and small-scale commercial use. Experimental trials under varying climatic conditions confirm superior heat retention and higher water outlet temperatures compared to conventional flat-plate collectors. The present invention (100) offers a sustainable and scalable solution for eco-friendly water heating applications.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2025

(21) Application No.202531099666 A
(43) Publication Date : 24/10/2025

(54) Title of the invention : COMPOSITE CONSTRUCTION BLOCK FROM RECYCLED PLASTIC WITH PROTECTIVE SHELL

(51) International classification	:E04B0002020000, C04B0028000000, C04B0018020000, B29B0017000000, C04B0111280000	(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi Orissa India
(31) Priority Document No	:NA	(72)Name of Inventor :
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(33) Name of priority country	:NA	2)Rajib Kumar Majhi
(86) International Application No	:	3)B. Bikram Narayan
Filing Date	:01/01/1900	4)Asit Kumar Dandapat
(87) International Publication No	: NA	5)Muralitharan Jothimani
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract COMPOSITE CONSTRUCTION BLOCK FROM RECYCLED PLASTIC WITH PROTECTIVE SHELL The invention provides a practical method for making durable, fire-resistant construction blocks or panels (10) by reusing mixed plastic waste. Shredded plastic (20) is first cleaned and optionally treated to improve bonding, then combined with mineral fillers like fly ash, slag, or quarry dust (22). The plastic-filler mix is heated (24), moulded under compression (26), and shaped into blocks or tiles. While the core is still warm, a protective outer shell (14) made of geopolymer or cement-based material is applied (28), covering the entire surface to create a unified structure. The final product is cured (30) to strengthen the bond and harden the shell. The blocks have high compressive strength, low water absorption, and strong fire and weather resistance. They can be made with interlocking features (16), used in real construction, and produced on both small and large scales, offering an effective way to repurpose plastic and industrial waste.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531102161 A

(19) INDIA

(22) Date of filing of Application :23/10/2025

(43) Publication Date : 31/10/2025

(54) Title of the invention : ADAPTIVE MULTIPHASE CATALYST SYSTEM FOR PLASTIC WASTE RECYCLING

(51) International classification	:C10G0001100000, B01J0023890000, B29L0007000000, B29K0067000000, C10B0053070000	(71) Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi Orissa India
(31) Priority Document No	:NA	(72) Name of Inventor :
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(33) Name of priority country	:NA	2)Niharika Das
(86) International Application No	:	3)Subhraraj 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 :

ABSTRACT ADAPTIVE MULTIPHASE CATALYST SYSTEM FOR PLASTIC WASTE RECYCLING An adaptive multiphase hydrochemolytic catalyst system for converting mixed waste plastics to high-value chemicals under mild subcritical water conditions. The system comprises trimetallic ruthenium-palladium-nickel nanoparticles in precisely controlled 40:35:25 atomic ratio supported on sulfonic acid-modified MOF-808 with cerium oxide and graphene oxide promoters. Operating continuously at 150-180°C and 20-50 bar, the process achieves greater than 90% conversion of mixed plastic feeds including polyethylene, polypropylene, polystyrene, polyethylene terephthalate, and polyvinyl chloride without pre-sorting requirements. Key innovations include synergistic water-catalyst interactions enhancing conversion efficiency, contamination-enhanced performance with up to 15% organic impurities improving selectivity, self-regenerating anti-coking behavior maintaining greater than 95% activity over 500 hours operation, and pH-tunable product selectivity controlling distribution between gasoline-range and diesel-range hydrocarbons. The three-zone reactor architecture provides sequential dehalogenation, depolymerization, and selective hydrogenation functions, addressing the global plastic waste crisis through 60-70% energy savings versus conventional processes.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531085494 A

(19) INDIA

(22) Date of filing of Application :09/09/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : A SYSTEM FOR RENEWABLE ENERGY LARGE-SCALE PRODUCTION OF ELECTRICITY FROM SEA WAVES AND METHOD THEREOF

(51) International classification	:F03B0013180000, F03B0013140000, F03B0013200000, E02B0003060000, H02K0007180000	(71) Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Centurion University of Technology and Management (CUTM) At - Ramchandrapur, P.O. - Jatni, Bhubaneswar Dist: Khordha, 752050, Odisha, India Khordha Orissa India
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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	

(57) Abstract :

ABSTRACT A SYSTEM FOR RENEWABLE ENERGY LARGE-SCALE PRODUCTION OF ELECTRICITY FROM SEA WAVES AND METHOD THEREOF
The present invention relates to a movable system mounted on a corrosion-resistant rail trolley fixed along the coastline. This trolley-based deployment allows for strategic positioning of the device based on wave activity and enables rapid retraction inland during extreme weather events like cyclones, providing storm resilience that is critical for coastal installations. The float mechanism, coupled with a reciprocating arm, captures the up-and-down motion (heave) of sea waves. This linear motion is then translated into rotational energy through a series of mechanical linkages, including a counterweight-balanced gear and pinion system. A key innovation lies in the multi-stage mechanical transmission involving shafts, pinions, and a unidirectional freewheel mechanism that ensures smooth and continuous energy transfer. A flywheel stores excess kinetic energy to maintain generator momentum even during short wave lulls, ensuring stable power output. The final stage of the system drives an electrical generator, effectively converting mechanical energy into electricity suitable for direct grid integration or off-grid applications.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531110525 A

(19) INDIA

(22) Date of filing of Application :13/11/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : LANGUAGE LEARNING AUDIO ENHANCEMENT PROCESSING METHOD

(51) International classification	:H03L 7/06, G01S 3/788, H04N 5/205, H04R 1/22, H03D 3/22	(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi Orissa India
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
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 :

ABSTRACT LANGUAGE LEARNING AUDIO ENHANCEMENT PROCESSING METHOD A language learning audio enhancement processing method provides adaptive frequency modulation and context-aware signal processing specifically optimized for language acquisition. The method analyzes digital audio signals to identify language-specific frequency characteristics, applies targeted enhancement to critical frequency bands based on target language requirements, implements context-responsive processing based on learning activity type, and adapts parameters based on cognitive load assessment. The system employs Language-Specific Frequency Analysis, Adaptive Frequency Modulation, Context-Aware Signal Processing, and Cognitive Load Adaptation modules working synergistically to enhance phoneme discrimination, prosodic pattern recognition, and overall learning effectiveness. Processing includes dynamic gain calculation for consonant clarity, vowel fundamental, and prosodic frequency bands with progressive enhancement scaling based on learner proficiency. The method operates with sub-50ms latency through standard audio hardware, providing substantial improvements in language learning outcomes through intelligent audio optimization.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202531111011 A

(19) INDIA

(22) Date of filing of Application :13/11/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : AUTONOMOUS REAL-TIME GIS-BASED MULTI-HAZARD RISK MAPPING SYSTEM

(51) International classification	:A43B 3/46, H04N 25/778, H04R 7/06, H04N 21/422, F02M 26/45	(71)Name of Applicant : 1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT Address of Applicant :Village Alluri Nagar, R. Sitapur, Uppalada, Paralakhemundi, Gajapati Dist, Odisha-761211, India Paralakhemundi Orissa India
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(86) International Application No	:	3)Asit Kumar Dandapat
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(87) International Publication No	: NA	5)Bhaktishree Nayak
(61) Patent of Addition to Application Number	:NA	6)Pushpanathan Raja
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract AUTONOMOUS REAL-TIME GIS-BASED MULTI-HAZARD RISK MAPPING SYSTEM The present invention provides a system and method for autonomous detection, mapping and response to multiple environmental and infrastructural hazards in real time. The system comprises a plurality of ruggedised sensor pods with Global Navigation Satellite System receivers and environmental sensors deployed at predetermined monitoring locations, at least one unmanned aerial vehicle, and at least one edge gateway configured to preprocess raw data by filtering, feature extraction, compression and encryption. Preprocessed data are transmitted over secure links to a central Geographic Information System processing engine executing a self-learning anomaly detection model trained on historical spatio-temporal patterns. Upon detecting a deviation, a risk polygon generator automatically delineates the affected area, assigns a severity score and overlays the polygon on a live map. A workflow controller triggers predefined or adaptive response actions and a spatial data ledger records each event with a cryptographic hash and time-location stamp for provenance and auditability.

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(57) Abstract :

Abstract Automatic Solar Maize Planter Cum Tiller An automatic solar-powered integrated machine for single-pass soil tilling and precision maize planting includes a frame, photovoltaic panel (10), lithium ion battery (04), an electric drive for L shaped rotating tynes (03), a furrow opener (02), a seed box (06) with seed metering device (09) feeding a seed delivery pipe (05), running gear including a ground wheel (07) and pneumatic wheel (08), and a microcontroller with sensors for ground speed and depth to regulate seed spacing and depth. The system operates without fossil fuel, reducing costs and emissions and improving seed germination and crop yield uniformity. Fig. 1

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