3.3.1	Institution has created an ecosystem for innovations, Indian Knowledge System (IKS) including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of technology/knowledge and the outcomes of the same are evident

Details of Patents Granted / Filed during last five years

S. N.	Name of the Faculty/student author of the patent	Patent Number	Date of Award	Patent Awarding Agency
	2023-2024			
1	Abhijeet Joshi	424477-001	5/9/2024	Indian Patent Office
2	Atmiya University, Kevin Garala, Parag Rabara and Ashish Kothari	422671-001	3/9/2024	Indian Patent Office
3	Atmiya University	2024 21054839	30/8/2024	Indian Patent Office
4	Atmiya University and Ashish Kothari	202421005564A	19/7/2024	Indian Patent Office
5	Atmiya University and Ashish Kothari	202421045036A	19/7/2024	Indian Patent Office
6	Hardik Pujara, Hemant Sonkushare, Mayursinh Jadeja, Ashraf Mathakiya, Mayank Parekh, Devang Sarvaiya, Mr Hiren Ramani	419312-001	18/7/2024	Indian Patent Office
7	Atmiya University, Shivani Tank and Anmol Kumar	202421039180A	5/7/2024	Indian Patent Office
8	Hardik Pujara, Hemant Sonkushare, Mayursinh Jadeja, Ashraf Mathakiya, Mayank Parekh, Devang Sarvaiya, Mr Hiren Ramani	2024 21032278	24/5/2024	Indian Patent Office
9	Parag Rabara and Kevin Garala	400194-001	16/5/2024	Indian Patent Office
10	Hardik Pujara	2024 11030059	10/5/2024	Indian Patent Office
11	Hemant Sonkushare	202441029739A	19/4/2024	Indian Patent Office
12	Rishabh Makwana and Jay Patel	526667	14/3/2024	Indian Patent Office
13	Samixa Patel	202321085244A	23/2/2024	Indian Patent Office
14	Samixa Patel	202321085245A	23/2/2024	Indian Patent Office
15	Satishkumar Tala	202321086930A	23/2/2024	Indian Patent Office
16	Mahesh Savant and Anil Patel	202421005423 A	23/2/2024	Indian Patent Office
17	Ashish Kothari	202321085248 A	23/2/2024	Indian Patent Office
18	Neha Patel	6343244	6/2/2024	The Patent Office, UK
19	Mousumi Das	421306-001	26/6/2024	Indian Patent Office
	2022-2023			
20	Divyarajsinh Zala	2023 21003881	3/2/2023	Indian Patent Office
21	Divyang Vyas	418681	20/1/2023	Indian Patent Office
22	Rajeshri Patel	202121031020 A	13/1/2023	Indian Patent Office
23	Om Teraiya	202241062893	18/11/2022	Indian Patent Office
24	Bhavin Dhaduk	202121017561	21/10/2022	Indian Patent Office
25	Jaydeep Ramani	202211053207A	7/10/2022	Indian Patent Office
26	Chitra Bhattacharya	202211040082A	22/7/2022	Indian Patent Office
27	Samixa Patel	202211035924	1/7/2022	Indian Patent Office
28	Nishita Thakrar	202341002154A	20/1/2023	Indian Patent Office
	2021-2022			
29	Om Teraiya	202211027211	20/5/2022	Indian Patent Office
30	Divyarajsinh Zala	202141057952	4/2/2022	Indian Patent Office
31	Dharmesh Pandya	202241045507A	4/2/2022	Indian Patent Office
32	Rajvi Kotecha	385920	3/1/2022	Indian Patent Office
33	Jignesh Hirapara, Haresh Khachariya, Divyesh Gohel, Priyank Doshi, Abhishek Teraiya, Hiren R. Kavathiya, Prakash P. Gujarati and Falgunee I. Parsana	202121058284 A	24/12/2021	Indian Patent Office

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Atmiya University, Rajkot-Gujarat-India

Atmiya University Rajkot

Support Documents

S. N.	Academic Year	Details	Documentary Evidences	Page No.
1	2023-2024	Patents Granted / Published	Certificate of Grant / Publication of Patent by Patent Office **19** **7–Granted, 12-Published**	3-23
2	2022-2023		Certificate of Grant / Publication of Patent by Patent Office **9** **1-Granted, 8-Published**	24-33
3	2021-2022		Certificate of Grant / Publication of Patent by Patent Office **5** **1-Granted, 4-Published**	34-39

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A.Y. 2023-2024

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INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. : 179862

पेटेंट कार्यालय, भारत सरकार **The Patent Office, Government Of India**

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 424477-001

तारीख / Date : 24/07/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *SKIN MICROBIOME ANALYZER DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Sachin Kumar 2. Mr. Rohan Mathur 3.Dr. Abhijeet Joshi 4.Dr. Lishoy William Rodrigues 5.Dr. Arnaw Kishore 6.Dr. Alpa Joshi 7.Dr. Udaybhan Yadav 8.Dr. Arti Thakur 9.Mrs. Astha Puri के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *SKIN MICROBIOME ANALYZER DEVICE* in the name of 1.Dr. Sachin Kumar 2. Mr. Rohan Mathur 3.Dr. Abhijeet Joshi 4.Dr. Lishoy William Rodrigues 5.Dr. Arnaw Kishore 6.Dr. Alpa Joshi 7.Dr. Udaybhan Yadav 8.Dr. Arti Thakur 9.Mrs. Astha Puri.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
Date of Issue : 05/09/2024

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Controller General of Patents, Designs and Trade Marks

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ORIGINAL
क्रम सं/ Serial No. : 179639

पेटेंट कार्यालय, भारत सरकार **The Patent Office, Government Of India**

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.	:	422671-001
तारीख / Date	:	09/07/2024
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *DEVICE WITH DIGITAL CAMERA FOR DETERMINATION OF ANGLE OF REPOSE* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Atmiya University 2. Dr. Kevinkumar Chandulal Garala 3.Dr. Parag Anilkumar Rabara 4.Dr. Ashish Kothari के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to *DEVICE WITH DIGITAL CAMERA FOR DETERMINATION OF ANGLE OF REPOSE* in the name of 1.Atmiya University 2. Dr. Kevinkumar Chandulal Garala 3.Dr. Parag Anilkumar Rabara 4.Dr. Ashish Kothari.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
Date of Issue : 03/09/2024

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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

Application Details	
APPLICATION NUMBER	202421054839
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/07/2024
APPLICANT NAME	1 . Atmiya University 2 . Nirav Pareshkumar Mehta 3 . Dr. Hetal Thaker
TITLE OF INVENTION	ADVANCED MACHINE LEARNING ALGORITHM FOR RECOMMENDING NUTRITIOUS GUJARATI FOODS TO CARDIOVASCULAR PATIENTS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	chothani18preeti@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	03/08/2024
PUBLICATION DATE (U/S 11A)	30/08/2024

Application Status	
APPLICATION STATUS	Application Awaiting Examination

View Documents

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Rajkot

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2024

(21) Application No.202421005564 A
(43) Publication Date : 19/07/2024

(54) Title of the invention : E-VEHICLE - MULTIMODE OPERATING AND MULTIMODE CHARGING

(51) International classification :B62M6/40, B62M6/85, B62M6/90, H02J7/14, B60L8/003, B60K16/00
(86) International Application No :NA
Filing Date :NA
(87) 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)Atmiya University
Address of Applicant :Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Rakshit Rathod
3)Brijraj Kacha
4)Kishan Sapariya
5)Ashish Kothari
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Rakshit Rathod
Address of Applicant :Department of mechanical engineering, Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
2)Brijraj Kacha
Address of Applicant :Department of mechanical engineering, Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
3)Kishan Sapariya
Address of Applicant :Department of mechanical engineering, Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
4)Ashish Kothari
Address of Applicant :Department of mechanical engineering, Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------

(57) Abstract :
E-Vehicle - Multimode operating and multimode charging The present invention is related to hybrid e-vehicles. The present invention proposes a reusable kit for modifying old bicycles into electric vehicles with the aim of reducing dependence on non-renewable energy sources and minimizing air pollution. The hybrid e-vehicles includes a motor with an attached dynamo system (3), a detachable treadmill (4), a high-performance solar panel (1), and a reliable battery pack (2). The motor (3) propels the vehicle forward and also generates electricity while in motion through the dynamo system, which recharges the battery. The detachable treadmill (4) provides an additional feature for exercise while stationary, and the solar panel (1) ensures sustainable and environmentally friendly charging. The hybrid e-vehicles offers a cost-effective, versatile, and user-friendly solution for individuals seeking both speed and well-being. The present invention highlights the importance of utilizing renewable energy sources and provides an innovative and sustainable approach to transportation. Figure 1

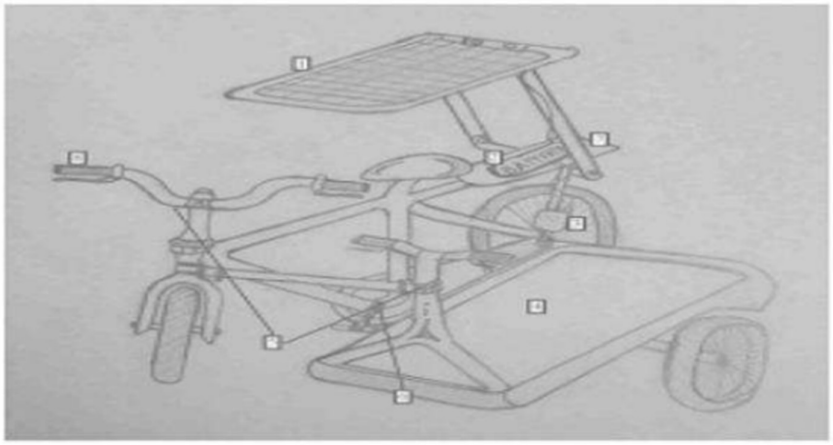

Figure 1 shows hybrid two-wheeler e-vehicle

No. of Pages : 25 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2024

(21) Application No.202421045036 A
(43) Publication Date : 19/07/2024

(54) Title of the invention : SMART LIGHTING SYSTEMS FOR ENERGY CONSERVATION

(51) International classification	:H05B0047110000, F21V0023040000, H04N0005330000, H05B0047100000, F21S0002000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Atmiya University
Address of Applicant :Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Dr. Ashish M. Kothari
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Ashish M. Kothari
Address of Applicant :Director-Research, Innovation & Translation, Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot – 360005 Rajkot --------- -- ----------

(57) Abstract :
Abstract Smart Lighting Systems for Energy Conservation The present invention provides a smart lighting system designed to conserve energy by automatically adjusting illumination based on ambient light conditions and human occupancy. The system includes a Light Dependent Resistor (L) sensor to monitor ambient light levels and a Passive Infrared (P) sensor to detect human motion. An Arduino UNO microcontroller (M) processes the input from these sensors to control a switching module (SM), which activates the lighting only when necessary. The system allows for customizable settings, enabling users to adjust the ambient light threshold and the duration for which the lights remain on after motion detection. This smart lighting system significantly reduces energy wastage, lowers electricity bills, and contributes to environmental sustainability. It is versatile and applicable in various indoor and outdoor environments, such as staircases, parking areas, building lobbies, halls, porches, decks, and backyards. Figure 1

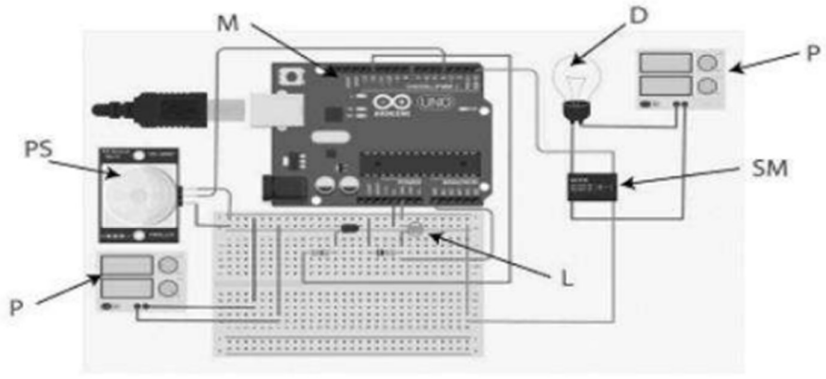

Figure 1 shows diagram of smart lighting system

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

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
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सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 175706

पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 419312-001

तारीख / Date : 07/06/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *PORTABLE CONCRETE MIXER WITH REINFORCED DRUM* से संबंधित है, का पंजीकरण, श्रेणी 15-04 में 1.Mr. Hardik P. Pujara 2. Dr. Hemantkumar. G. Sonkusare 3.Mr. Mayursinh B. Jadeja 4.Mr. Ashraf Mathakiya 5.Mr. Mayank M. Parekh 6.Mr. Devang Sarvaiya 7.Mr. Hiren D. Ramani के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
Date of Issue : 18/07/2024

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/05/2024

(21) Application No.202421039180 A
(43) Publication Date : 05/07/2024

(54) Title of the invention : POLYHERBAL AYURVEDIC FORMULATION FOR DIABETIC WOUND HEALING

(51) International classification :A61K9/06, A61K36/58, A61K36/48, A61K36/53, A61K47/44
(86) International Application No :NA
Filing Date :NA
(87) 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)Atmiya University
Address of Applicant :Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot, Gujarat, India Rajkot ---------- ----------
2)Shivani H. Tank
3)Dr. Anmol Kumar
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Shivani H. Tank
Address of Applicant :Department of Biotechnology, Atmiya University "Yogidham Gurukul", Kalawad Road, Rajkot Rajkot ---------- ----------
2)Dr. Anmol Kumar
Address of Applicant :Assistant Professor, Department of Biotechnology, Atmiya University, "Yogidham Gurukul", Kalawad Road, Rajkot Rajkot ---------- ----------
-

(57) Abstract :
ABSTRACT Polyherbal Ayurvedic Formulation for Diabetic Wound Healing The present invention relates to development of polyherbal ayurvedic formulation that can elevate the process of wound healing in diabetic patients, as a topical application used in dressings. More specifically, the present invention relates to polyherbal ayurvedic formulation which comprises of extract from Securinega leucopyrus (Katupila), Azadirachta indica (Neem), Acacia catechu (Khadir), and Vitex negundo (Nirgundi), blended in sesame oil. The developed polyherbal ayurvedic formulation exhibited promising properties, including antioxidant activity and the presence of bioactive compounds such as sesamin and gamma-sitosterol. In vitro assays demonstrated its ability to promote cell proliferation, reduce oxidative stress, and enhance apoptosis in hyperglycemic conditions. Furthermore, the developed formulation exhibits the wound healing property by promoting healthy cellular growth and gap filling.

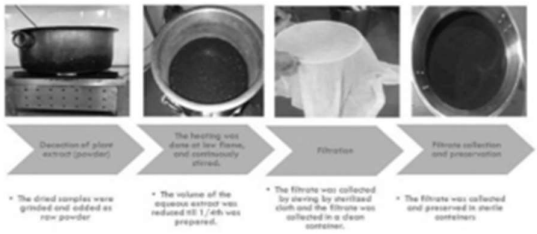

Figure 1 shows the steps for the preparation of decoction 1

No. of Pages : 39 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/04/2024
(21) Application No.202421032278 A
(43) Publication Date : 24/05/2024

(54) Title of the invention : MYSTICAL SELF-HEALING BRICKS: ENCHANTING AI-INFUSED MATERIALS THAT REPAIR CRACKS AND DAMAGE AUTONOMOUSLY

(51) International classification :G06N0020000000, A61P0031120000, G06N0003120000, H04L0001160000, C04B0028180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. Hemantkumar. G. Sonkusare
Address of Applicant :Prathmesh Residency, 2nd Floor 201 Shilpa Society, Plot No 6 and 7, Near UCO Bank Manishnagar, Nagpur- 440015 ---------- ----------
2)Mr. Hardik P. Pujara
3)Mr. Mayursinh B. Jadeja
4)Mr. Ashraf Mathakiya
5)Mr. Mayank M. Parekh
6)Mr. Devang Sarvaiya
7)Mr. Hiren D. Ramani
8)Dr.R.Karthick
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Hemantkumar. G. Sonkusare
Address of Applicant :Prathmesh Residency, 2nd Floor 201 Shilpa Society, Plot No 6 and 7, Near UCO Bank Manishnagar, Nagpur- 440015 ---------- ----------
2)Mr. Hardik P. Pujara
Address of Applicant :376, Ranuja Housing Board, Kothariya Main Road, Rajkot-360002 ---------- ----------
3)Mr. Mayursinh B. Jadeja
Address of Applicant :"Shree Hari ", Shree Ram Park Street No. 2, Behind Kalyan Park, Nana Mauva Main Road, Rajkot - 360005 ---------- ----------
4)Mr. Ashraf Mathakiya
Address of Applicant :Lalsha Nagar, Tithva, Village Tithava, Tal. Wankaner, Dist. Morbi - 363621 ---------- ----------
5)Mr. Mayank M. Parekh
Address of Applicant :"Madhav", Prahlad Plot-4, Digvijay Road, Rajkot, 360001 -- --------- ----------
6)Mr. Devang Sarvaiya
Address of Applicant :"Amrutam", Bedi Naka, Naklank Chowk, B/S Swaminarayan Temple, Rajkot - 360001 ---------- ----------
7)Mr. Hiren D. Ramani
Address of Applicant :403, Manav Flat, Near Pushkardham Temple, Rajkot-360005 ---------- ----------
8)Dr.R.Karthick
Address of Applicant :Associate Professor, Department of Computer Science Engineering, K.L.N. College of Engineering, Pottapalayam, Sivagangai-630 612. -- --------- ----------

(57) Abstract :
The proposed invention introduces a paradigm-shifting approach to construction materials with the development of "Mystical Self-Healing Bricks." These bricks are infused with enchantments drawn from ancient traditions and embedded with advanced artificial intelligence systems. Through a synergistic integration of materials science, nanotechnology, and enchantment techniques, these bricks possess the remarkable ability to autonomously detect and repair cracks and damages, thereby enhancing the resilience and longevity of buildings and infrastructure. By harnessing the principles of biomimicry and drawing inspiration from nature's regenerative processes, this innovation represents a transformative leap forward in the field of construction. Through a combination of ritualistic practices, symbolism, and cutting-edge technology, "Mystical Self-Healing Bricks" offer a glimpse of a future where our built environment becomes not just static structures, but living organisms that adapt and evolve over time. This abstract explores the key components and potential applications of this groundbreaking invention, laying the groundwork for further research and development in the pursuit of sustainable, resilient urban landscapes.

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

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INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. : 169706

पेटेंट कार्यालय, भारत सरकार **The Patent Office, Government Of India**

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.	:	400194-001
तारीख / Date	:	18/11/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *SMART AND PORTABLE SKIN DISEASE DETECTION DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Khushboo Ketan Vaghela 2. Dr. Preeti Mangala 3.Dr. Jiwan Premchand Lavande 4.Dr. Parag Anilkunar Rabara 5.Mr. Prashant Purushottam Nikumbh 6.Miss. Vaishali Punjahari Argade 7.Ms. Supriya Shahaji Shinde 8.Miss. Urvashi Jain 9.Dr. Kevinkumar Garala 10.Mr. Hitesh Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *SMART AND PORTABLE SKIN DISEASE DETECTION DEVICE* in the name of 1.Dr. Khushboo Ketan Vaghela 2. Dr. Preeti Mangala 3.Dr. Jiwan Premchand Lavande 4.Dr. Parag Anilkunar Rabara 5.Mr. Prashant Purushottam Nikumbh 6.Miss. Vaishali Punjahari Argade 7.Ms. Supriya Shahaji Shinde 8.Miss. Urvashi Jain 9.Dr. Kevinkumar Garala 10.Mr. Hitesh Kumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 16/05/2024
Date of Issue :

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

Registrar
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/04/2024

(21) Application No.202411030059 A
(43) Publication Date : 10/05/2024

(54) Title of the invention : BIODEGRADABLE PLASTIC MATERIAL WITH ENHANCED ENVIRONMENTAL COMPATIBILITY FOR MARINE LIFE PROTECTION

(51) International classification :C02F0001720000, C09D0005160000, C02F0003340000, C09K0008360000, B01D0053180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. Deepak Srivastava
Address of Applicant :Professor, Department of Plastic Technology, Harcourt Butler Technical University, Nawab Ganj, Kanpur – 208002 ---------- ----------
2)Dr. Kavita Srivastava
3)Dr. Santosh Mani
4)Dr. Anil Kumar
5)Mr. Hardik Pujara
6)Mrs. Shraddha Kaushik
7)Dr. Ratan Sarkar
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Deepak Srivastava
Address of Applicant :Professor, Department of Plastic Technology, Harcourt Butler Technical University, Nawab Ganj, Kanpur – 208002 ---------- ----------
2)Dr. Kavita Srivastava
Address of Applicant :Assistant Professor, Department of Chemistry, Vikramajit Singh Sanatan Dharma College, Nawab Ganj, Kanpur – 208002 ---------- ----------
3)Dr. Santosh Mani
Address of Applicant :Associate Professor of Physics, Department of Science and Humanities, K. J. Somaiya College of Engineering, Somaiya Vidyavihar University, Vidyavihar (E), Mumbai, - 400077, Maharashtra, India ---------- ----------
4)Dr. Anil Kumar
Address of Applicant :HOD, P.G.Dept.of Chemistry, Sahibganj College, Sahibganj 816109, Jharkhand, India ---------- ----------
5)Mr. Hardik Pujara
Address of Applicant :Vrujbhumi, Street Number-1, Ranuja Housing Board, Kothariya Main Road, Rajkot-360022 ---------- ----------
6)Mrs. Shraddha Kaushik
Address of Applicant :Assistant Professor, Dept. of Electrical Engineering, Bhilai Institute of Technology, Durg 491001 ---------- ----------
7)Dr. Ratan Sarkar
Address of Applicant :Assistant Professor of Education, Department of Teachers' Training (B.Ed.), Prabhat Kumar College, Karkuli, Contai, Purba Medinipur, West Bengal-721404 (India) ---------- ----------

(57) Abstract :
The proposed invention pertains to biodegradable plastic material tailored for enhanced environmental compatibility in marine environments. Comprising a composition optimized for biodegradability and minimal ecological impact, the material undergoes efficient degradation into benign compounds, mitigating harm to marine life and ecosystems. Through innovative formulations and manufacturing techniques, the invention ensures functionality comparable to conventional plastics while addressing the pressing issue of plastic pollution in oceans. This environmentally conscious solution offers a sustainable alternative to conventional plastics, contributing to the preservation and restoration of marine ecosystems. By combining scientific expertise with environmental consciousness, the proposed invention represents a significant step towards mitigating plastic pollution and safeguarding the health and integrity of our oceans.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2024

(21) Application No.202441029739 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EARTHQUAKE EARLY PREDICTION SYSTEM WITH DEEP LEARNING AND IOT INTEGRATION BASED ON ANIMAL EEG DATA PATTERNS

(51) International classification :E04H0009020000, G01V0001000000, G06N0003080000, A61B0005000000, 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

(71)**Name of Applicant :**
1)Mr. Balakrishna Kancherla
Address of Applicant :D.NO: 15-14-132, The Shop Employees Colony-5th Lane, Kakani Road, Guntur-522001 ---------- ----------
2)Dr. Hemantkumar Sonkusare
3)Dr. Anil Kumar
4)Mr. Shanmugapriyan R
5)Mrs. Sowmiya B
6)Dr. Rakesh Kumar
7)Dr. Ratan Sarkar
8)Dr.P.Meenalochini
9)Dr.R.Karthick
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. Balakrishna Kancherla
Address of Applicant :D.NO: 15-14-132, The Shop Employees Colony-5th Lane, Kakani Road, Guntur-522001 ---------- ----------
2)Dr. Hemantkumar Sonkusare
Address of Applicant :Prathmesh Residency 2nd Floor, 201, Shilpa Society Plot no. 6 & 7 ear UCO Bank, Manish Nagar, Nagpur, (M.S.) - 440015 ---------- ----------
3)Dr. Anil Kumar
Address of Applicant :HOD, P.G. Dept. of Chemistry, Sahibganj College Sahibganj 816109, Jharkhand, India ---------- ----------
4)Mr. Shanmugapriyan R
Address of Applicant :Assistant Professor, Department of Civil Engineering, Nadar Saraswathi College of Engineering and Technology, Theni-625531 ---------- ----------
5)Mrs. Sowmiya B
Address of Applicant :Assistant Professor, Department of Civil Engineering, Nadar Saraswathi College of Engineering and Technology, Theni- 625531 ---------- ----------
6)Dr. Rakesh Kumar
Address of Applicant :Scientist, Division of Livestock and Fishery Management, ICAR-RCER Patna-800014 ---------- ----------
7)Dr. Ratan Sarkar
Address of Applicant :Assistant Professor of Education, Department of Teachers' Training (B.Ed.), Prabhat Kumar College, Karkuli, Contai, Purba Medinipur, West Bengal-721404 (India) ---------- ----------
8)Dr.P.Meenalochini
Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Sethu Institute of Technology, Pulloor, Kariapatti 626115 ---------- ----------
9)Dr.R.Karthick
Address of Applicant :Associate Professor, Department of Computer Science Engineering, K.L.N. College of Engineering, Pottapalayam, Sivagangai-630612 ---------- ----------

(57) Abstract :
The proposed Earthquake Early Prediction System integrates Deep Learning algorithms, IoT sensors, and animal EEG data analysis to forecast seismic events with unprecedented accuracy. By leveraging real-time environmental monitoring and studying animal behavior patterns, the system identifies subtle precursors to earthquakes, enabling timely warnings and proactive disaster preparedness measures. This interdisciplinary approach advances our understanding of seismic processes and enhances societal resilience to earthquakes, mitigating risks and minimizing the impacts on vulnerable communities.

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

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क्रम सं/SL No :022141920

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

पेटेंट कार्यालय,भारत सरकार
पेटेंट प्रमाण पत्र
(पेटेंट नियमावली का नियम 74)

The Patent Office, Government Of India
Patent Certificate
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	526667
आवेदन सं. / Application No.	:	202021050530
फाइल करने की तारीख / Date of Filing	:	20/11/2020
पेटेंटी / Patentee	:	1.BHAVYA B. BHIMANI 2.JAYDEEP H. VIRAMGAMA 3.KEVAL M. GOHIL 4.RISHABH D. MAKWANA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *"AUTOMATIC PRESSURE SENSING MECHANISM"* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2020 के बीसवें 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 *"AUTOMATIC PRESSURE SENSING MECHANISM"* as disclosed in the above mentioned application for the term of 20 years from the 20th day of November 2020 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 14/03/2024
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2022 के बीसवें 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 20th day of November 2022 and on the same day in every year thereafter.

*चूंकि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ठ संख्या 2 पर जारी हैं।
*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page No. 2

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पेटेंट प्रमाणपत्र के लिए अनुलग्नक/Annexure to Patent Certificate

पेटेंट सं. / Patent No.	:	526667
आवेदन सं. / Application No.	:	202021050530
फाइल करने की तारीख / Date of Filing	:	20/11/2020
पेटेंटी / Patentee (जारी/Continued)	:	5.JAYKUMAR A. PATEL

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2023

(21) Application No.202321085244 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : SUSTAINABLE HPLC ANALYTICAL METHOD DEVELOPMENT FOR TRIPLEPACK COMBINATION OF AMOXICILLIN,CLARITHROMYCIN AND VONOPRAZAN IN PHARMACEUTICAL DOSAGEFORMS

(51) International classification	:G01N30/02, G01N30/30, G01N30/34, G01N30/86, G01N30/88
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Atmiya University
Address of Applicant :Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Dr. PANDYA YOGI UMESHBHAI
3)Dr. SAMIXA PATEL
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. PANDYA YOGI UMESHBHAI
Address of Applicant :Department of Pharmacy, School of Pharmaceutical Sciences, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
2)Dr. SAMIXA PATEL
Address of Applicant :Director-Research, Innovation & Translation, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------

(57) Abstract :
Sustainable HPLC Analytical Method Development for Triple Pack Combination of Amoxicillin, Clarithromycin and Vonoprazan in Pharmaceutical Dosage forms The present invention pertains to sustainable and validated RP-HPLC method for analyzing triple drug regimens used in treating Helicobacter pylori infections. The method is eco-friendly, using a smaller amount of organic mobile phase and solvents, producing less hazardous waste during analysis. The method uses Hypersil-column for chromatographic separations, with a mobile phase consisting of a 65:25:10 volume ratio of 0.01 M Phosphate buffer, Acetonitrile, and Methanol of pH 5.5. The detection wavelength used was 229 nm, and a flow rate of 1 ml min-1 was maintained. The method has been validated through ICH guidelines, and it effectively detects pure drugs and impurities in stability and degradation studies under different conditions. The % Assay and % Mean Recovery values for Amoxicillin, Clarithromycin, and Vonoprazan were found to be high, with R2 values of 0.999. This novel and sustainable RP-HPLC method provides a reliable and efficient approach for analyzing triple drug regimens.

No. of Pages : 29 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2023

(21) Application No.202321085245 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF HERBAL GEL USING DAUCUS CAROTA AND ALLIUMCEPA FOR TREATMENT OF KELOID

(51) International classification	:A61K36/23, A61K36/8962, A61K8/41, A61K8/67, A61K8/97, A61K9/00, A61K9/06, A61P17/02
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)ATMIYA UNIVERSITY
Address of Applicant :Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Dr. PANDYA YOGI UMESHBHAI
3)Dr. SAMIXA PATEL
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. PANDYA YOGI UMESHBHAI
Address of Applicant :Department of Pharmacy, School of Pharmaceutical Sciences, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
2)Dr. SAMIXA PATEL
Address of Applicant :Director-Research, Innovation & Translation, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------

(57) Abstract :
DEVELOPMENT AND EVALUATION OF HERBAL GEL USING DAUCUS CAROTA AND ALLIUMCEPA FOR TREATMENT OF KELOID The present invention relates to a development and evaluation of herbal gel using Daucus Carota and Allium Cepa for treatment of keloid wherein Allium cepa improves the appearance and texture of the scar by reducing the colour of scar and Daucus Carota helps by decreasing scar width and wound area by increasing contraction of wound. The present herbal gel formulation can be applied on different part of the body like chest, cheeks, ears, lobes shoulders, and/or hands and found to be effective reducing the itching and scars, wounds in keloids. The developed formulation not only useful for the keloid treatment but also improves the skin appearance, texture and reduces the colour of the scar and aids in wound healing. The present herbal gel composition is cost effective and safer in comparison to other synthetic drugs used in the therapy.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/12/2023

(21) Application No.202321086930 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : NOVEL QUINOLINE DERIVATIVES CONTAINING SUBSTITUTED OXADIAZOLE AS AN ANTICANCER AGENT

(51) International classification :A61K31/47, A61P35/00, C07D215/00, C07D457/00, C07F9/00, C09B21/00, C09B29/44, C09B31/157
(86) International Application No :NA
Filing Date :NA
(87) 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)Atmiya University
Address of Applicant :Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Deep P. Mandir
3)Dr. Satishkumar D. Tala
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Deep P. Mandir
Address of Applicant :Department of Chemistry, Faculty of Science, Atmiya University Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
2)Dr. Satishkumar D. Tala
Address of Applicant :Associate professor, Department of Chemistry, Faculty of Science, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------

(57) Abstract :
ABSTRACT Novel quinoline derivatives containing substituted oxadiazole as an anticancer agent The present invention relates to the synthesis of novel quinoline derivatives containing substituted oxadiazole and evaluation of their anti-cancer activities. The quinolone based 1,2,4-oxadiazol-5(4H)-one ring (6a to 6p) derivatives and 1,2,4-oxadiazole-5(4H)-thione ring (7a to 7p) derivatives are synthesized using the formula (I). The anti-cancer activities of synthesized hybrid molecules show promising anticancer activity on Central Nervous System Cancer Cell Line: SNB-75, Melanoma Cell Line: MDA-MB 435 & SK-MEL 5, and in Breast Cancer Cell Line: T- 47D & MDA-MB-468 cell-lines. (I)

No. of Pages : 42 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/01/2024

(21) Application No.202421005423 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : HIGHLY FUNCTIONALIZED NOVEL THIOPHENE HETEROCYCLES AND THEIR ANTICANCER ACTIVITY

(51) International classification	:A61P35/00, C07D33/10, C07D33/36, C07D33/40
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Atmiya University
Address of Applicant :Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Jayraj N. Jatiya
3)Dr. Mahesh M. Savant
4)Dr. Anilkumar S. Patel
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Jayraj N. Jatiya
Address of Applicant :Department of Chemistry, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
2)Dr. Mahesh M. Savant
Address of Applicant :Department of Chemistry, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
3)Dr. Anilkumar S. Patel
Address of Applicant :Department of Chemistry, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------

(57) Abstract :
ABSTRACT Highly functionalized novel thiophene heterocycles and their anticancer activity The present invention relates to the synthesis of highly functionalized thiophene heterocycles and evaluation of their anti-cancer activities. A thiophene based compound ethyl (E)-2-((2-cyano-1-(methylthio)-3-oxo-3-(phenylamino) prop-1-en-1-yl) amino)-4-methyl-5-(phenylcarbamoyl) thiophene-3-carboxylate is synthesized (6a-m). The anti-cancer activity of all the synthesized compounds have been evaluated against a panel of potential cancer cell lines. The compounds 6a-l were further evaluated for five-dose assay based on the initial screening of anti-cancer activity against all the cell lines.

No. of Pages : 39 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2023

(21) Application No.202321085248 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : AUDIO-VISUAL INDICATOR FOR SPILLING MILK

(51) International classification	:G06Q0030080000, A01J0005010000, A61J0009000000, F24C0003120000, A47J0043280000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Atmiya University
Address of Applicant :Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat, India Rajkot ---------- ----------
2)Brijraj R. Kacha
3)Dr. Ashish M. Kothari
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Brijraj R. Kacha
Address of Applicant :Department of Computer Engineering, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------
2)Dr. Ashish M. Kothari
Address of Applicant :Director-Research, Innovation & Translation, Atmiya University, Yogidham Gurukul, Kalawad Road, Rajkot – 360005 Rajkot ---------- ----------

(57) Abstract :
Audio-Visual indicator for spilling milk The present invention is an automated kitchen device with audio –visual indicator to alert the user before the milk/any liquid spills over while boiling in the form of buzzer. The present invention also provides facility of automatically turning off the gas stove before spilling of the milk. The present invention is flexible with any gas stove and any size of vessels used in the kitchen. The present invention is easy to use and simple in design and thus cost-effective. The present device can be used for any quantity of milk and easy to clean after use. The present invention helps in saving time and also prevents milk wastage by avoiding unnecessary spilling of the milk.

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

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Atmiya University
Rajkot

Atmiya University Rajkot

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6343244

Grant date: 06 February 2024

Registration date: 30 January 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Reena Pratik Dave, Dr. Neha Tushar Patel, Dr. Rahul Shivlalbhai Gohel, Dr.

Mona Chandrakant Khajuriya

in respect of the application of such design to:

PLANT EXTRACT ANALYSING DEVICE TO IDENTIFY DISEASE

International Design Classification:
Version: 14-2023
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING, SECURITY OR TESTING

Adam Williams

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Intellectual Property Office is an operating name of the Patent Office www.gov.uk/ipo

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INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. : 177625

पेटेंट कार्यालय, भारत सरकार **The Patent Office, Government Of India**

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.	:	421306-001
तारीख / Date	:	26/06/2024
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *AIRBORNE MICROBIAL SAMPLER* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Venkat M. Shinde 2. Dr. Sanjay Rathod 3.Mr. Azhi Sarbast Abdalrahman 4.Dr. Divya J 5.Dr. Mousumi Das 6.Dr. Laishram Shantikumar Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to *AIRBORNE MICROBIAL SAMPLER* in the name of 1.Dr. Venkat M. Shinde 2. Dr. Sanjay Rathod 3.Mr. Azhi Sarbast Abdalrahman 4.Dr. Divya J 5.Dr. Mousumi Das 6.Dr. Laishram Shantikumar Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
Date of Issue : 08/08/2024

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/01/2023

(21) Application No.202321003881 A
(43) Publication Date : 03/02/2023

(54) Title of the invention : A SYSTEM FOR EVALUATING IMPACT OF FINANCIAL ACCOUNTING IN DECISION MAKING PROCESSES OF BUSINESS AND WORKING METHOD THEREOF

(51) International classification :G06Q0040000000, G06Q0010060000, G06Q0040020000, G06F0021620000, G06F0016280000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Purushottam Arvind Petare
Address of Applicant :Head & Assistant Professor, Department of School of Commerce, Faculty of Commerce and Management, Sanjay Ghodawat University, Kolhapur ---------- ---------- ----------
2)Dr. Shraddha Mayuresh Bhome
3)Prof. Abilasha N
4)Dr.S.Valluvan
5)Mrs.S.S.Uma
6)Dr.Shyma K
7)Dr. V. Mani Maheswaran
8)Dr.Divyarajsinh M Zala
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Purushottam Arvind Petare
Address of Applicant :Head & Assistant Professor, Department of School of Commerce, Faculty of Commerce and Management, Sanjay Ghodawat University, Kolhapur ---------- ---------- ----------
2)Dr. Shraddha Mayuresh Bhome
Address of Applicant :Asst. Professor and Vice Principal, Department of Accounting and Finance, Satish Pradhan Dnyanasadhana College, Thane, Dnyanasadhana Marg, Near Eternity Mall, Thane West, Pin: 400602 ---------- ----------
3)Prof. Abilasha N
Address of Applicant :Assistant Professor, Bachelor of Management Studies (BMS), Mulund College of Commerce (Autonomous), SN Road, Near Court, Ashok Nagar, Mulund West, Mumbai, Pin: 400080 ---------- ----------
4)Dr.S.Valluvan
Address of Applicant :Associate Professor, Department of Commerce – PG, Rathnavel Subramaniam College of Arts and Science (Autonomous), 242, Trichy Road, Sulur, Coimbatore 641402 ---------- ----------
5)Mrs.S.S.Uma
Address of Applicant :Assistant Professor, School of Business Management, Rathnavel Subramaniam College of Arts & Science, KVK Thottam, Sulur, Coimbatore, Pin: 641402 ---------- ---------- ----------
6)Dr.Shyma K
Address of Applicant :Principal, MES College, Kuthuparamba, Pin: 670643 ---------- ----------
7)Dr. V. Mani Maheswaran
Address of Applicant :Assistant Professor and Head, Department of Commerce with CA, G. T. N. Arts College, Old Karur Road, Dindigul, Pin – 624005 ---------- ----------
8)Dr.Divyarajsinh M Zala
Address of Applicant :Assistant Professor, Department of Commerce, Atmiya University, Kalawad Road, Rajkot, Pin: 360005 ---------- ----------

(57) Abstract :
[025] The present invention discloses a system for evaluating impact of financial accounting in decision making processes of business and working method thereof. In the present invention, the executable business analysis code that runs on a processor and communicates with a transaction processor to help small businesses choose among available financing options. A financial accounting database stores and manages financial information; a database server linked to the financial accounting database stores and manages information on accounts receivable; a database server linked to the accounts receivable cube database generates data in multi-dimensional structure and stores the data in multi-dimensional form; and a web server linked to the database server. Further, the set of rules by which an organisation operates, and more specifically the set of rules for which each employee is responsible. Accompanied Drawing [FIGS. 1-2]

FIG. 1

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

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GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 022122031
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	418681
आवेदन सं. / Application No.	:	3712/MUM/2014
फाइल करने की तारीख / Date of Filing	:	24/11/2014
पेटेंटी / Patentee	:	1.DIVYANG DINESHKUMAR VYAS 2.HARESH NATWARLAL PANDYA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित PLUG-IN TYPE WIRELESS ADAPTER FOR ENERGY MONITORING & APPLIANCE CONTROL FOR DEMAND SIDE ENERGY MANAGEMENT नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2014 के चौबीसवें 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 PLUG-IN TYPE WIRELESS ADAPTER FOR ENERGY MONITORING & APPLIANCE CONTROL FOR DEMAND SIDE ENERGY MANAGEMENT as disclosed in the above mentioned application for the term of 20 years from the 24th day of November 2014 in accordance with the provisions of the Patents Act,1970.

पेटेंट कार्यालय THE PATENT OFFICE GOVT.OF INDIA सत्यमेव जयते

अनुदान की तारीख : Date of Grant : 20/01/2023

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2016 के चौबीसवें 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 24th day of November 2016 and on the same day in every year thereafter.

Registrar
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/07/2021

(21) Application No.202121031020 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : A CRYSTALLO CO- AGGLOMERATE OF PRAZIQUANTEL AND PROCESS OR PREPARING THE SAME

(51) International classification	:A61K0031498500, C07D0471040000, A61K0009160000, A61K0031495000, A61K0009200000	(71)**Name of Applicant :** **1)SAURASHTRA UNIVERSITY** Address of Applicant :SAURASHTRA UNIVERSITY, UNIVERSITY CAMPUS, RAJKOT-360005 (GUJARAT) INDIA. Gujarat India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)CHAUHAN, SEJALBA P.** **2)RAVAL, MIHIR K** **3)PATEL, RAJESHRI D.**
(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 :
ABSTRACT A CRYSTALLO CO- AGGLOMERATE OF PRAZIQUANTEL AND PROCESS OF PREPARING THE SAME The aim of present work is to improve physicochemical and physicomechanical properties of Praziquantel (PZQ), anthelmintic drug and a poorly water soluble and poor bioavailable by Crystallo co-agglomeration (CCA) in the presence of different excipients. Water and Dichloromethane (DCM) are used as the crystallization medium. CCA is carried out in the presence of various excipients like PVP K30, HPMC E50 L and Talc. The prepared co-agglomerates are subjected to apply Central-composite design and by this approach optimized concentration of polymers and processing parameters by non-destructive evaluation parameters. Crystallo-co-agglomeration technique can be utilized as an excellent alternative technique to conventional granulation process in order to prepare particles for direct compression.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2022

(21) Application No.202241062893 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : Wireless Sensor Networks with an Artificial Intelligence Algorithm are used to monitor the air quality in any given location

(51) International classification :H04W0084180000, H04W0004380000, G01N0033000000, G06Q0050260000, H04W0074080000
(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)Mr.T R Arunkumar
Address of Applicant :Assistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karnataka Belagavi Pin: 591 156 Karnataka India ---------- ----------
2)Mr. Kumar Ashwini
3)Dr.Deepak Kholiya
4)Dr. Om Teraiya
5)Dr. RAJESH B. SURVASE
6)Mr. M.Ashokkumar
7)Dr Pardeep Kumar
8)Ms. Ghazala Ansari
9)S.Latha Rani
10)N.Rajini Kiran Mai
11)Dr. Harikumar Pallathadka
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Mr.T R Arunkumar
Address of Applicant :Assistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karnataka Belagavi Pin: 591 156 Karnataka India ---------- ----------
2)Mr. Kumar Ashwini
Address of Applicant :Research Associate Gujrat University Ahmedabad Pin: 380009 Gujrat India ---------- ----------
3)Dr.Deepak Kholiya
Address of Applicant :Professor School of Agriculture, Graphic Era Hill University, Society Area, Turner Road P.O.Clement Town Dehradun Pin: 248001 Uttarakhand India ---------- ---------- ----------
4)Dr. Om Teraiya
Address of Applicant :Associate Professor Dept. Of Science & Humanities Atmiya University, Kalavad Road, Rajkot Pin: 360005 Gujarat India ---------- ----------
5)Dr. RAJESH B. SURVASE
Address of Applicant :ASSISTANT PROFESSOR E. S. DIVEKAR COLLEGE VARVAND, SAVITRIBAI PHULE PUNE UNIVERSITY PUNE. Pin:412215 MAHARASHTRA INDIA ---------- ----------
6)Mr. M.Ashokkumar
Address of Applicant :Asst.Professor Adhiyamaan College of Engineering (Autonomous) Dr M G R Nagar, Hosur, Krishnagiri. Pin:635130 Tamil Nadu India ---------- ----------
7)Dr Pardeep Kumar
Address of Applicant :Assistant Professor Anurag University, Venkatapur, Ghatkesar Rd, Hyderabad Pin: 500088 Telangana India ---------- ----------
8)Ms. Ghazala Ansari
Address of Applicant :Assistant Professor Department of ECE, SRM Institute of Science and technology, Sikri Kalan, Modinagar Ghaziabad Pin: 201204 Uttar Pradesh India ---------- ---------- ----
9)S.Latha Rani
Address of Applicant :Lecturer St.Josephs Degree College, Sunkesula Road, Kurnool Pin: 518001 Andhra Pradesh India ---------- ----------
10)N.Rajini Kiran Mai
Address of Applicant :Lecturer St.Josephs Degree College, Sunkesula Road, Kurnool Pin: 518004 Andhra Pradesh India ---------- ----------
11)Dr. Harikumar Pallathadka
Address of Applicant :Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Imphal Pin: 795140 Manipur India ---------- ----------

(57) Abstract :
Wireless Sensor Networks with an Artificial Intelligence Algorithm are used to monitor the air quality in any given location ABSTRACT Every city on the planet faces the problem of deteriorating air quality. Many large cities, especially in developing nations, lack the necessary infrastructure to monitor air quality. Due to the high cost, the government lacks the resources to establish air pollution monitoring stations. In addition, there are currently insufficient monitoring tools to keep track on a large number of distributed stations in the city. It is essential to find a solution to the current issue. This solution must be cost-effective for governments and local communities to deploy, and it must provide an accurate estimation of the quantity of air pollution already present. Creating a network of wireless sensors is one method for achieving this goal. Wireless sensor networks, or WSNs, have several applications in modern enterprises. This has received significant attention from academics. This work proposes a WSN-based system for monitoring indoor air pollution in diverse public areas. Among these public areas are subway stations, workplaces, schools, and hospitals. Utilizing the sensors currently present in mobile phones, the proposed system moves away from a fixed-node architecture and toward a mobile-node model. The primary objective of this system's construction is to ensure that it covers the entire area.

No. of Pages : 11 No. of Claims : 9

Registrar
Atmiya University
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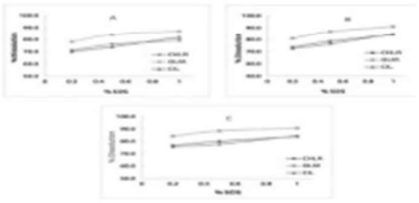
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2021
(21) Application No.202121017561 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : AN IN VITRO DRUG RELEASE METHOD OF OLMESARTAN MEDOXOMIL, CHLORTHALIDONE AND CILNIDIPINE

(51) International classification	:A61K0009200000, A61K0031442200, A61K0031417800, A61K0031403500, A61K0047260000	(71)**Name of Applicant :** **1)R K University** Address of Applicant :RK University, Bhavnagar Highway, Kasturbadham Rajkot- 360020, Gujarat, India. Gujarat India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)DR. BHAVIN B. DHADUK** **2)SHAH, PRANAVKUMAR**
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present invention is an in-vitro release method of Olmesartan medoxomil, Chlorthalidone and Cilnidipine. The present invention is also an in-vitro release method of Olmesartan medoxomil, Chlorthalidone and Cilnidipine which is comprising a dissolution medium is consisting of a liquid A of pH between 4-8 and a surfactant using USP apparatus II paddle at 75 RPM, with 900 mL of medium volume (37 ± 0.5°C). The present invention is in particular an in-vitro release method of Olmesartan medoxomil, Chlorthalidone and Cilnidipine that can be used for defining the bioavailability of drug products.



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

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/09/2022

(21) Application No.202211053207 A

(43) Publication Date : 07/10/2022

(54) Title of the invention : ANALYSIS AND OPTIMIZATION OF SUPPLY CHAIN FINANCE MANAGEMENT BASED ON BIG DATA OF E-COMMERCE

(51) International classification :G06Q0010080000, G06Q0010060000, F16G0013160000, A61K0039395000, G06Q0040020000

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

(87) International Publication No : NA

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

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

(71)**Name of Applicant :**
1)Dr. SHASHANK SINGH
Address of Applicant :ASSISTANT PROFESSOR , DEPARTMENT OF COMPUTER COMPUTER SCIENCE AND ENGINEERING, INTEGRAL UNIVERSITY, KURSHI ROAD,LUCKNOW, UTTAR PRADESH 226021 LUCKNOW ---------- ----------
2)Dr P. SUDHAKAR
3)Dr. G N P V BABU
4)Dr DIPANKAR MISRA
5)PROF. (Dr) NITIN GIRDHARWAL
6)J.RAJITHA
7)PROF. JITENDRA CHARAN
8)Dr. VIKRAMJEET SINGH
9)MANU VASUDEVAN UNNI
10)Dr.A.SASI KUMAR
11)Dr RAMANI JAYDEEP RAMNIKLAL
12)THIMMAIAH BAYAVANDA CHINNAPPA
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. SHASHANK SINGH
Address of Applicant :ASSISTANT PROFESSOR , DEPARTMENT OF COMPUTER COMPUTER SCIENCE AND ENGINEERING, INTEGRAL UNIVERSITY, KURSHI ROAD,LUCKNOW, UTTAR PRADESH 226021 LUCKNOW ---------- ----------
2)Dr P. SUDHAKAR
Address of Applicant :PROFESSOR/ DEPARTMENT OF CSE, GALGOTIAS UNIVERSITY, UP GAUTHAM BUDH NAGAR ---------- ----------
3)Dr. G N P V BABU
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MARKETING, GITAM SCHOOL OF BUSINESS, GITAM (DEEMED TO BE UNIVERSITY), RUDRARAM - 502329 HYDERABAD --------- -- ----------
4)Dr DIPANKAR MISRA
Address of Applicant :ASSOCIATE PROFESSOR IN CSE BUDGE BUDGE INSTITUTE OF TECHNOLOGY, KOLKATA, NISCHINTAPUR, BUDGE BUDGE, KOLKATA - 700 137 KOLKOTA ------ ----- ----------
5)PROF. (Dr) NITIN GIRDHARWAL
Address of Applicant :HEAD - FACULTY OF MANAGEMENT , MEDI-CAPS UNIVERSITY INDORE ---- ------- ----------
6)J.RAJITHA
Address of Applicant :ASSISTANT PROFESSOR, MBA, ELLENKI COLLEGE OF ENGINEERING AND TECHNOLOGY, SANGAREDDY(DIST) 502319 HYDERABAD ---------- ----------
7)PROF. JITENDRA CHARAN
Address of Applicant :ASSISTANT PROFESSOR , FACULTY OF MANAGEMENT , MEDI-CAPS UNIVERSITY INDORE ---------- ----------
8)Dr. VIKRAMJEET SINGH
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY AMRITSAR CAMPUS, AMRITSAR, 143105 AMRITSAR ---------- ----------
9)MANU VASUDEVAN UNNI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MANAGEMENT, ST. CLARET COLLEGE BANGALORE ---------- ----------
10)Dr.A.SASI KUMAR
Address of Applicant :PROFESSOR (MENTOR-IT – INURTURE EDUCATION SOLUTIONS PVT LTD), DEPARTMENT OF CLOUD TECHNOLOGY & DATA SCIENCE, INSTITUTE OF ENGINEERING & TECHNOLOGY, SRINIVAS UNIVERSITY, SRINIVAS NAGAR, MUKKA, SURATHKAL, MANGALORE-574146, DAKSHINA KANNADA DISTRICT, KARNATAKA STATE, INDIA. MANGALORE ---------- ----------
11)Dr RAMANI JAYDEEP RAMNIKLAL
Address of Applicant :ASSISTANT PROFESSOR, ATMIYA UNIVERSITY YOGIDHAM GURUKUL, KALAWAD ROAD, RAJKOT-360005, GUJARAT,INDIA RAJKOT ---------- ----------
12)THIMMAIAH BAYAVANDA CHINNAPPA
Address of Applicant :ASST REGISTRAR, IVANE JAVANKISHI TBILISI STATE UNIVERSITY OF GEORGIA ---------- ----------

(57) Abstract :
Analysis and Optimization of Supply Chain Finance Management based on Big Data of e-commerce is the proposed invention. The proposed invention aims at analysing the supply chain management through big data analytics. The data of e-commerce sites are considered for optimization of finance aspects of supply chain, which is very much important for stocking warehouse.

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

Registrar
Atmiya University
Rajkot

Atmiya University Rajkot

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211040082 A

(19) INDIA

(22) Date of filing of Application :12/07/2022

(43) Publication Date : 22/07/2022

(54) Title of the invention : IMAGE PROCESSING BASED APPROACH INTEGRATED WITH DEEP LEARNING TO ACCURATELY DETECT THE ROOT CAUSE FOR DISEASE AND FACTORS RESPONSIBLE FOR DECREASE IN CROP YIELD

(51) International classification :G06N0003040000, G06K0009620000, G06K0009000000, G06N0003080000, G06N0007000000

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

(87) International Publication No : NA

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

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

(71)Name of Applicant :

1)DR ASHOK KUMAR KOSHARIYA
Address of Applicant :DEPARTMENT OF PLANT PATHOLOGY, SCHOOL OF AGRICULTURE, LOVELY PROFESSIONAL UNIVERSITY JALANDHAR PUNJAB, INDIA Jalandhar ---------- ----------

2)DR VISHAL VASANT NAIK

3)DR. N. SIVANANDAN

4)DR. CHITRA BHATTACHARYA

5)DR.A.SASI KUMAR

6)DHANESHA R

7)DR. PRASHANT P. PANGRIKAR

8)DR. DURGA PRASAD GANGODKAR

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR ASHOK KUMAR KOSHARIYA
Address of Applicant :DEPARTMENT OF PLANT PATHOLOGY, SCHOOL OF AGRICULTURE, LOVELY PROFESSIONAL UNIVERSITY JALANDHAR PUNJAB, INDIA Jalandhar ---------- ----------

2)DR VISHAL VASANT NAIK
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, BHARATI VIDYAPEETH'S MATOSHRI BAYABAI SHRIPATRAO KADAM KANYA MAHAVIDYALA, KADEGAON YA Kadegaon ---------- ---------- ----------

3)DR. N. SIVANANDAN
Address of Applicant :N. SIVANANDAN.ASSISTANT PROFESSOR, DEPT OF ELECTRONICS,PSG COLLEGE OF ARTS AND SCIENCE COIMBATORE, 641014 Coimbatore ---------- ----------

4)DR. CHITRA BHATTACHARYA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, ATMIYA UNIVERSITY Rajkot ---------- ----------

5)DR.A.SASI KUMAR
Address of Applicant :PROFESSOR (MENTOR-IT – INURTURE EDUCATION SOLUTIONS PVT LTD), DEPARTMENT OF CLOUD TECHNOLOGY AND DATA SCIENCE, SRINIVAS UNIVERSITY, INSTITUTE OF ENGINEERING & TECHNOLOGY, MUKKA - 574146. Mangalore ---------- ----------

6)DHANESHA R
Address of Applicant :DEPT. OF STUDIES IN COMPUTER SCIENCE Davanagere ---------- ----------

7)DR. PRASHANT P. PANGRIKAR
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, R. B. ATTAL COLLEGE, GEORAI, DIST. BEED Beed ---------- ---------- ----------

8)DR. DURGA PRASAD GANGODKAR
Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, GRAPHIC ERA DEEMED TO BE UNIVERSITY, DEHRADUN, UTTARAKHAND, INDIA 248002 Dehradun ---------- ----------

(57) Abstract :
Image Processing based approach integrated with Deep Learning to accurately detect the Root cause for disease and factors responsible for Decrease in Crop Yield is the proposed invention. The invention aims at designing a framework that utilizes the algorithms of image recognition to recognize the root cause of particular crop disease. The framework is integrated with Deep Learning techniques to predict the correlation between the type of crop disease and the yield of crop that is obtained.

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

Registrar
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Rajkot

Atmiya University Rajkot

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/06/2022

(21) Application No.202211035924 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : FORMULATION AND IN VITRO EVALUATION OF CONTROLLED RELEASE REPAGLINIDE BILAYER TABLETS

(51) International classification :A61K0009200000, A61K0009240000, C07D0295135000, A61K0009280000, A61K0009160000

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

(87) International Publication No : NA

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

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

(71)Name of Applicant :
1)Dr. Deepti Kathyar
Address of Applicant :Assistant Professor, KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Ghaziabad-201206, India Ghaziabad ---------- ----------
2)Dr. Deepak Kumar Dash
3)Dr. Pradeep Kumar
4)Mr. Rohit Pandey
5)Mr. Pandya Yogi Umeshbhai
6)Ms. Priya Diwedi
7)Dr. Arshad Ahmad
8)Dr Samiya Patel
9)Dr. Biswaranjan Mohanty
10)Ms. Makwana Rajeshreebahen Pravinkumar
11)Dr. C. Kannan
12)Mr. Ashish Kumar Pandey
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Deepti Kathyar
Address of Applicant :Assistant Professor, KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Ghaziabad-201206, India Ghaziabad ---------- ----------
2)Dr. Deepak Kumar Dash
Address of Applicant :Principal, Royal College of Pharmacy, Behind Pt. R.S.University, Raipur, Chhattisgarh, Pin: 492099, India Raipur ---------- ----------
3)Dr. Pradeep Kumar
Address of Applicant :Principal, Jeevan Gopi Institute of Pharmacy and Technology, Ahera Baghpat, Delhi NCR, Pin- 2506099, India Baghpat ---------- ----------
4)Mr. Rohit Pandey
Address of Applicant :Assistant Professor, Dr. KN Modi Institute of Pharmaceutical Education And Research,Old Cloth Mill, Compound, Opp SBI Main Branch, Modinagar, District Ghaziabad, Uttar Pradesh, Pin 201204, India Modinagar ---------- ----------
5)Mr. Pandya Yogi Umeshbhai
Address of Applicant :Research Scholar & Asst Professor, School Of Pharmaceutical Sciences, Atmiya University, Rajkot, Gujarat India Pin 360005, India Rajkot ---------- ----------
6)Ms. Priya Diwedi
Address of Applicant :Assistant Professor, AKS University Panna Khajuraho Rd, SherGanj, Satna, Madhya Pradesh 485001, India Satna ---------- ----------
7)Dr. Arshad Ahmad
Address of Applicant :Associate Professor, Shri Gopichand College Of Pharmacy, Ahera, Baghpat, Uttar Pradesh,Pin- 250609, India Baghpat ---------- ----------
8)Dr Samiya Patel
Address of Applicant :Associate Professor, School of Pharmaceutical Sciences, Atmiya University, Rajkot, Gujarat India. Pin - 360005, India Rajkot ---------- ----------
9)Dr. Biswaranjan Mohanty
Address of Applicant :Professor, Institute of Pharmacy and Technology, Salipur. Cuttack -754202, Odisha, India Cuttack ---------- ----------
10)Ms. Makwana Rajeshreebahen Pravinkumar
Address of Applicant :Research Scholar, Dharmsinh Desai University, Nadiad,Gujarat ,Pin - 387 001, India Kheda ---------- ----------
11)Dr. C. Kannan
Address of Applicant :Associate Professor, J.K.K.Nattraja College of Pharmacy, Nattrajapuram, Kumarapalayam, Namakkal Dt, Tamilnadu, Pin: 638183, India Namakkal ---------- ----------
12)Mr. Ashish Kumar Pandey
Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai,Chhattisgarh, Pin- 490020, India Durg ---------- ----------

(57) Abstract :
A method for creating a repaglinide bilayer tablet with a controlled release oral dose form. The method includes a (i) preformulation testing examines the physical and chemical properties of pharmacological compounds on their own and in combination with excipients, (ii) providing information based on the preformulation testing to a formulation team to produce stable and bioavailable dosage forms, (iii) compressing, using a direct compression process, the repaglinide to release a pills rapidly, (iv) combining the active component, wherein the active components comprises a microcrystalline cellulose,Croscarmellose sodium,Cros povidone powder, (v) adding magnesium stearate and talc as a lubricant, (vi) compressing, using a direct compression process, the repaglinide to release a pills sustainly, (vii) combining the active component, wherein the active components comprises a hydroxyl propyl methylcellulose (HPMC), sodium carboxyl methylcellulose (SCMC), soluble starch, lactose, and the active ingredient are mixed together in a homogeneous manner, (viii) adding magnesium stearate and talc as a lubricant, (ed) placing a sustained release repaglinide granules into the die cavity, with a minor precompression used to ensure that the layer was evenly distributed, followed by immediate release repaglinide granules and (x) compressing, using a 16-station rotating tablet machine, a bilayer tablets using a 10mm punch.

No. of Pages : 20 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/01/2023

(21) Application No.202341002154 A

(43) Publication Date : 20/01/2023

(54) Title of the invention : STATISTICAL, CLASSICAL AND HYBRID ARTIFICIAL NEURAL NETWORKS BASED APPROACHES FOR STOCK PRICE FORECASTING IN COMPETITIVE MARKET

(51) International classification :G06Q0040000, G06N0003080000, G06N0003040000, G06K0009620000, G16H0050200000
(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)Dr. T. S. SASIKALA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, AMRITA COLLEGE OF ENGINEERING AND TECHNOLOGY, NAGERCOIL. NAGERCOIL ---------- ----------
2)Dr.MONICA S
3)Dr.NAGLAXMI TIRMANWAR
4)Dr. VIVEKANAND PANDEY
5)Dr C SASIKALA
6)THAKRAR NISHITA TULSIDAS
7)Dr PADMA C
8)Dr SATISH KUMAR
9)Dr. P. VAMSI KRISHNA
10)Dr. P. RAJASEKAR
11)Dr. HARISH PUROHIT
12)Dr VIJAY KUMAR SALVIA
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. T. S. SASIKALA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, AMRITA COLLEGE OF ENGINEERING AND TECHNOLOGY, NAGERCOIL. NAGERCOIL ---------- ----------
2)Dr.MONICA S
Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE,T.JOHN COLLEGE, BANGALORE -560083 BANGALORE ---------- ----------
3)Dr.NAGLAXMI TIRMANWAR
Address of Applicant :ASSISTANT PROFESSOR, COMMERCE DEPARTMENT, SPM SCIENCE AND GILANI ARTS COMMERCE COLLEGE, GHATANJI-445301 YAVATMAL ---------- ----------
4)Dr. VIVEKANAND PANDEY
Address of Applicant :PROFESSOR, MANAGEMENT, AMITY UNIVERSITY PATNA, PATNA, BIHAR - 801503 PATNA ---------- ----------
5)Dr C SASIKALA
Address of Applicant :ASSOCIATE PROFESSOR,DEPT OF CSE,SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY (AUTONOMOUS) ANANTHAPURAMU ---------- ----------
6)THAKRAR NISHITA TULSIDAS
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, ATMIYA UNIVERSITY RAJKOT ---------- ----------
7)Dr PADMA C
Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE SIVANANDA SARMA MEMORIAL RV COLLEGE BANGALORE 72 BANGALORE ---------- ----------
8)Dr SATISH KUMAR
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SRMIST DELHI NCR CAMPUS, MODINAGAR, GHAZIABAD, UTTAR PRADESH, PIN-201204 MODINAGAR ---------- ----------
9)Dr. P. VAMSI KRISHNA
Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF MANAGEMENT, MALLA REDDY UNIVERSITY, HYDERABAD, 500043 HYDERABAD ---------- ----------
10)Dr. P. RAJASEKAR
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MANAGEMENT, SHREE VENKATESHWARA ARTS AND SCIENCE (CO-EDUCATION) COLLEGE, GOBICHETTIPALAYAM - 638455 GOBICHETTIPALAYAM ---------- ----------
11)Dr. HARISH PUROHIT
Address of Applicant :DEPARTMENT OF COMMERCE AND MANAGEMENT, SHRI JAGDISH PRASAD JHABHARMAL TIBREWALA UNIVERSITY, JHUNJHUNU JHUNJHUNU ---------- ----------
12)Dr VIJAY KUMAR SALVIA
Address of Applicant :PROFESSOR DIRECTOR ECE INTERNATIONAL RESEARCH AND DEVELOPMENT CREATIVITY ORGANIZATION USA INDIA INDORE 452018 INDORE ---------- ----------

(57) Abstract :
Statistical, Classical and Hybrid Artificial Neural Networks based approaches for stock price forecasting in competitive market is the proposed invention. The proposed invention focuses on analyzing the framework of stock market through Artificial Intelligence. The techniques of classical, hybrid, statistical artificial neural networks algorithm is used.

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

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Rajkot

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211027211 A

(19) INDIA

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

(43) Publication Date : 20/05/2022

(54) Title of the invention : AI BASED PREVENTION AND PREDICTION OF RESTLESS LEGS SYNDROME IN PATIENTS WITH LIVER PROBLEM USING MACHINE LEARNING AND DEEP LEARNING ALGORITHMS

(51) International classification :G16H0050200000, G06N0020000000, G06N0003080000, G16H0010600000, G06N0005020000

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

(87) International Publication No : NA

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

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

(71)**Name of Applicant :**

1)Dr Bhupesh Goyal
Address of Applicant :Professor & Head School of Physiotherapy & Occupational Therapy Vivekananda Global university / VIT campus Sector 36, NRI road,Jagatpura Jaipur Rajasthan Jaipur ---------- ----------

2)Dr. Smita Prakash Wankhedkar

3)Dr. Brijesh Sathian

4)Prachi Subhash Giri

5)Dr. Riya K S

6)Dr. Om Teraiya

7)Mr. Jonnala Subba Reddy

8)Dr Harishchander Anandaram

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr Bhupesh Goyal
Address of Applicant :Professor & Head School of Physiotherapy & Occupational Therapy Vivekananda Global university / VIT campus Sector 36, NRI road,Jagatpura Jaipur Rajasthan Jaipur ---------- ----------

2)Dr. Smita Prakash Wankhedkar
Address of Applicant :Assistant Professor Pratap College, Amalner, Dist. Jalgaon Jalgoan ---------- ----------

3)Dr. Brijesh Sathian
Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar ---------- ----------

4)Prachi Subhash Giri
Address of Applicant :Asst Professor at govt College of arts and science, Aurangabad, India Aurangabad ---------- ----------

5)Dr. Riya K S
Address of Applicant :Associate Professor, Department of Cse, Veltech Multitech Dr Rangerajan Dr Sakunthala Engineering College Chennai Chennai ---------- ----------

6)Dr. Om Teraiya
Address of Applicant :HoD, Atmiya University, Dept. of Science & Humanities alawad Rd, Nandanavan Society, Yogidham, Gurukul, Rajkot, Gujarat 360005. Rajkot ---------- ----------

7)Mr. Jonnala Subba Reddy
Address of Applicant :Associate Professor Mechanical Engineering Lakireddy Bali Reddy College of Engineering, Mylavaram (A) Mylavaram , Andhra Pradesh - 521230 Mylavaram ---------- ----------

8)Dr Harishchander Anandaram
Address of Applicant :Assistant Professor Centre for Excellence in Computational Engineering and Networking Amrita Vishwa Vidyapeetham Coimbatore Tamil Nadu , India Coimbatore ---------- ----------

(57) Abstract :
AI based Prevention and Prediction of Restless Legs Syndrome in Patients with Liver problem using Machine Learning and deep learning algorithms Abstract: Utilizing artificial intelligence in healthcare can help with patient care, diagnosis, and sleep problems. Researchers intended to determine the prevalence of restless leg syndrome (RLS) among type 2 diabetics. They did it by utilising multilayer perceptron technology, which is based on artificial intelligence (MLP). There were 300 cases of type 2 diabetes among people between the ages of 18 and 80. Using point-biserial and Pearson Chi-Square correlations, the connections between RLS and risk factors were analysed. For RLS, a backpropagation MLP trained with automated supervised learning was utilised. Up to 63 percent of participants developed increased blood pressure and peripheral neuropathy as a result of their medication (69 percent). The most often cited scaled features were fatigue (18 percent) and impact on mood (14 percent). Smoking, hypertension, and chronic renal failure are statistically significant risk factors for RLS (CRF). 95 percent of the time, the MLP model accurately anticipated the outcome, with a cross entropy error of only 0.5 percent. The most significant scored symptoms were need/urge to move, relief by moving, sleep disturbance, and impact on mood (51.3 percent). Using AI-based models to predict the onset of RLS symptoms will enable clinicians to take preventative actions to avoid subsequent difficulties.

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

Registrar
Atmiya University
Rajkot

Atmiya University Rajkot

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

(21) Application No.202141057952 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : PRESENT SCENARIO OF HUMAN RESOURCE MANAGEMENT (HRM) PRACTICES IN THE INDIAN COMPANIES

(51) International classification :G06Q0010100000, G06Q0010060000, C12Q0001686000, G06Q0099000000, A61B0005024000
(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)Dr.N.S.LISSY
Address of Applicant :Assistant Professor, PSG College of Arts and Science, Civil Aerodrome, Peelamedu, Coimbatore , Pin: 641014 State: Tamilnadu Country: India ---------- ----------
2)Y Suryanarayana Murthy
3)M. Govardhan Reddy
4)Dr.Divyarajsinh M Zala
5)Dr. Manoj Sharma
6)Dr. Anupam Mitra
7)Dr. Naveen Kumar
8)DR. KAMAL KUMAR
9)Dr.C.Vilvijayan
10)Dr.D .D.Paul Dhinakaru
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.N.S.LISSY
Address of Applicant :Assistant Professor, PSG College of Arts and Science, Civil Aerodrome, Peelamedu, Coimbatore , Pin: 641014 State: Tamilnadu Country: India ---------- ----------
2)Y Suryanarayana Murthy
Address of Applicant :Assistant Professor, Department of Business Administration, Prasad V Potluri Siddhartha Institute of Technology Chalasaninagar, Kanuru, Vijayawada, Krishna District Pin: 520007, State: Andhra Pradesh Country: India ---------- ----------
3)M. Govardhan Reddy
Address of Applicant :Assistant Professor, Department of Management Studies, Aditya College of Engineering Surampalem, Peddapuram, Gandepalli Mandalam, East Godavari District Pin: 533437, State: Andhra Pradesh Country: India ---------- ----------
4)Dr.Divyarajsinh M Zala
Address of Applicant :Assistant professor, Atmiya University, kalawad road, Rajkot, Pin:360005 State: Gujarat Country: India ---------- ----------
5)Dr. Manoj Sharma
Address of Applicant :Assistant Professor, St. Xavier's University,Action Area III B, New Town, Kolkata Pin: 700160 State: West Bengal Country: India ---------- ----------
6)Dr. Anupam Mitra
Address of Applicant :Associate Professor, St. Xavier's University, Action Area III B, Newtown, Kolkata Pin:700160 State: West Bengal Country: India ---------- ----------
7)Dr. Naveen Kumar
Address of Applicant :Professor, Baba Mastnath University, Asthsal Bohar, Rohtak, Pin:124021 State: Haryana Country: India ---------- ----------
8)DR. KAMAL KUMAR
Address of Applicant :Assistant Professor, Baba Mastnath University, Rohtak Pin:124021 State: Haryana, Country: India ---------- ----------
9)Dr.C.Vilvijayan
Address of Applicant :Assistant professor of commerce, Thiru kollanjiappar government arts college, Viruthachalam, Pin:606001 State: Tamilnadu Country:India ---------- ----------
10)Dr.D .D.Paul Dhinakaru
Address of Applicant :Asst. Professor, Commerce JHA Agarsen College, Chennai State: Tamilnadu, Country: India Pin code: 600 060 ---------- ----------

(57) Abstract :
PRESENT SCENARIO OF HUMAN RESOURCE MANAGEMENT (HRM) PRACTICES IN THE INDIAN COMPANIES. Abstract: There is a greater urgency and interest in learning more about how MNCs from non-Western countries, such as China and India, use and spread managerial strategies. There are also a lot of people who aren't working because there is a lot of work to go around. This affects how HRM policies are made. This gives employers more power and lets them shape their HR strategies to cut costs. Thus, there can be more reliance on hiring people who aren't in the core group. With the weakening of the power of employees, HRM practises toward this group of employees are bound to show hard methods, like lowering minimum standards of employment and engaging in unfair labour practises, to deal with them (ULPs). In a world with many different countries, this paper examines the motivations, strategic opportunities, and challenges of HR policies and practises that are being moved across borders.

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

Registrar
Atmiya University
Rajkot

Atmiya University Rajkot

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/02/2022

(21) Application No.202241005507 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM FOR POSITIONING AND PLACEMENTS OF DEVICES CONNECTED IN IOT

(51) International classification :G06K0009000000, H04L0029080000, G01C0011060000, G01C0021200000, G06T0019000000
(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)Mr.Jangili Srinivasa Rao
Address of Applicant :Senior Lecturer, Government Polytechnic, Kothagudem, Telangana, India. Pin Code:507101 ---------- ----------
2)Mrs.N.P.V.Susmitha
3)Dr.Dharmesh J. Pandya
4)Dr.Gopireddy Ranabothu
5)Ms.Perigisetty Vedavalli
6)Mr.Alemayehu Kebede Abebe
7)Dr.Panduranga Vital Terlapu
8)Dr.Ram Prasad Reddy Sadi
9)Prof.(Dr.) Hemant Sharma
10)Dr.Arun Kumar Singh
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr.Jangili Srinivasa Rao
Address of Applicant :Senior Lecturer, Government Polytechnic, Kothagudem, Telangana, India. Pin Code:507101 ---------- ----------
2)Mrs.N.P.V.Susmitha
Address of Applicant :Lecturer in Electronics & Instrumentation Engineering, Department of Technical Education, Government Institute of Electronics, Secunderabad, Telangana, India. Pin Code:500026 ---------- ----------
3)Dr.Dharmesh J. Pandya
Address of Applicant :Associate Professor, Department of Electrical Engineering, Atmiya University, Rajkot, Gujarat, India. Pin Code:360001 ---------- ----------
4)Dr.Gopireddy Ranabothu
Address of Applicant :Assistant Professor, Department of ECE, Wachemo University, Hosanna, Ethiopia. Po.Box:667 ---------- ----------
5)Ms.Perigisetty Vedavalli
Address of Applicant :PhD Scholar, School of Electronics and Communication Engineering, VIT-Andhra Pradesh, Amaravati, Andhra Pradesh, India. Pin Code:522237 ---------- ----------
6)Mr.Alemayehu Kebede Abebe
Address of Applicant :Lecturer, Department of Electrical and computer engineering, Wachemo University, Hosanna, Ethiopia. Po.Box:667 ---------- ----------
7)Dr.Panduranga Vital Terlapu
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, India. Pin Code:532201 ---------- ----------
8)Dr.Ram Prasad Reddy Sadi
Address of Applicant :Associate Professor, Department of Information Technology, Anil Neerukonda Institute of Technology and Sciences, Bheemili, Visakhapatnam, Andhra Pradesh India. Pin Code:531162 ---------- ----------
9)Prof.(Dr.) Hemant Sharma
Address of Applicant :Deputy Pro Vice Chancellor & Professor, Director-School of Management Studies, CT University, Ferozepur Rd, Ludhiana, Punjab, India. Pin Code:142024 ---------- ----------
10)Dr.Arun Kumar Singh
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Amity University, Gurugram, Haryana, India. Pin Code:122413 ---------- ----------

(57) Abstract :
[035] The present invention discloses a system for positioning and placements of devices connected in IoT and method thereof. The system includes, but not limited to, an image capturing device with a storage media for acquiring a plurality of successive captured images of an indoor environment with a camera system moving in the indoor IoT based environment, and further, each acquired and captured image comprises two images, which partly overlap. Further, a position identification module is configured for tracking a reference point of the image capturing device and generating data of a track from the tracked reference point and identifying points in the captured images and generating data of a 3D point cloud-based storage from the identified points. Accompanied Drawing [FIG. 1]

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

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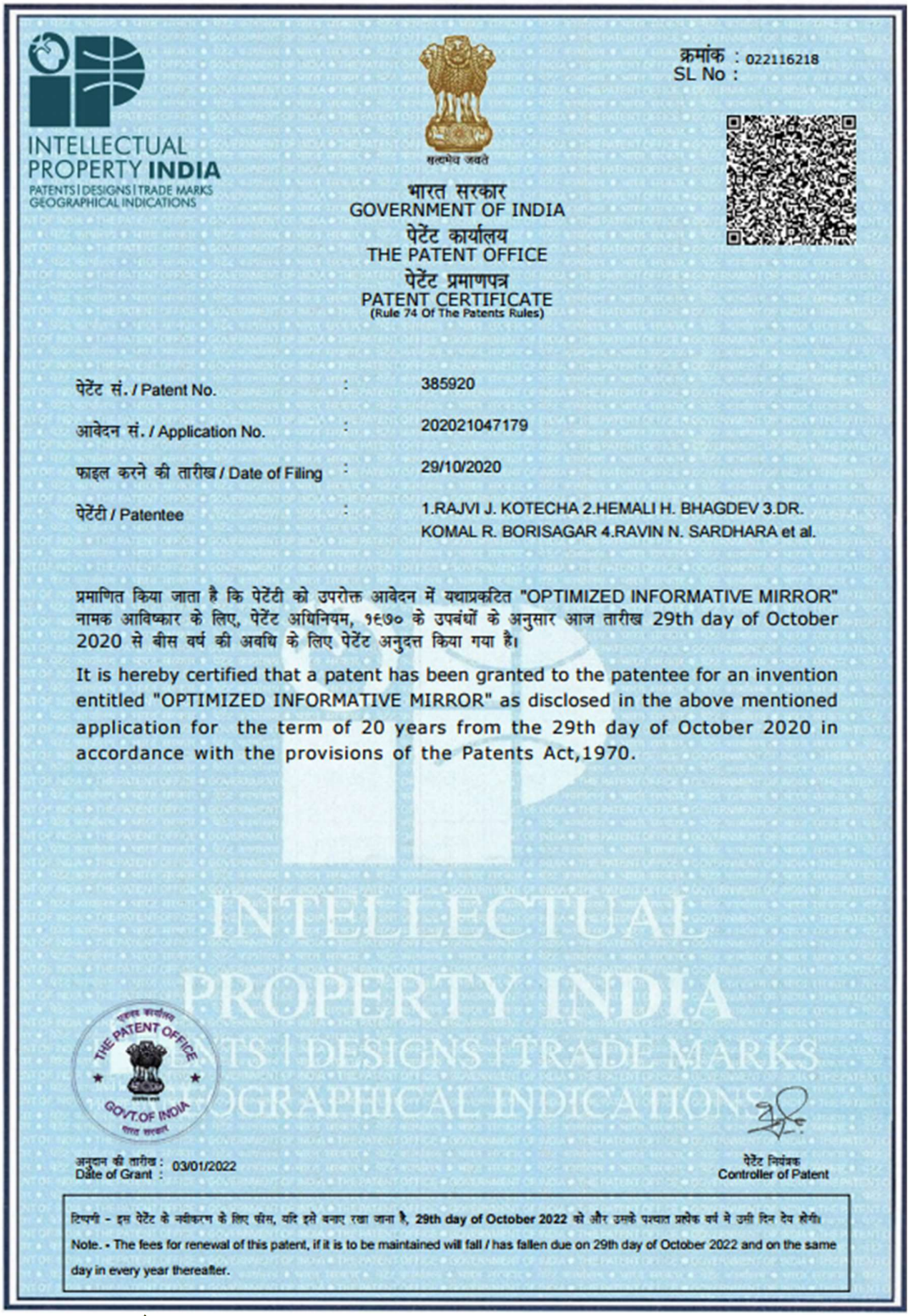
Atmiya University Rajkot



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SL No :

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GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	385920
आवेदन सं. / Application No.	:	202021047179
फाइल करने की तारीख / Date of Filing	:	29/10/2020
पेटेंटी / Patentee	:	1.RAJVI J. KOTECHA 2.HEMALI H. BHAGDEV 3.DR. KOMAL R. BORISAGAR 4.RAVIN N. SARDHARA et al.

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित "OPTIMIZED INFORMATIVE MIRROR" नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 29th day of October 2020 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 "OPTIMIZED INFORMATIVE MIRROR" as disclosed in the above mentioned application for the term of 20 years from the 29th day of October 2020 in accordance with the provisions of the Patents Act,1970.

THE PATENT OFFICE GOVT.OF INDIA

अनुदान की तारीख : 03/01/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 29th day of October 2022 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 October 2022 and on the same day in every year thereafter.

Registrar
Atmiya University
Rajkot

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(71)Name of Applicant :
1)Dr.Pratik A. Vanjara
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
2)Dr.Haresh D. Khachariya
3)Mr.Jignesh D. Hirapara
4)Mr. Divyesh P. Gohel
5)Mr. Priyank D. Doshi
6)Mr. Abhishek R. Teraiya
7)Dr.Hiren R. Kavathiya
8)Dr.Prakash P. Gujarati
9)Dr.Jasmin B. Parmar
10)Dr. Falgunee I. Parsana
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Pratik A. Vanjara
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
2)Dr.Haresh D. Khachariya
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
3)Mr.Jignesh D. Hirapara
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
4)Mr. Divyesh P. Gohel
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
5)Mr. Priyank D. Doshi
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
6)Mr. Abhishek R. Teraiya
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
7)Dr.Hiren R. Kavathiya
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
8)Dr.Prakash P. Gujarati
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
9)Dr.Jasmin B. Parmar
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------
10)Dr. Falgunee I. Parsana
Address of Applicant :Atmiya University,Kalawad Road Rajkot-360005,Gujarat ---------- ----------

(57) Abstract :
Distributed sensors, one or more generators for creating discovery rules based on the collective set of pattern discovering algorithms, including one or more unsupervised machine learning, one or more detectors for detecting abnormal patterns in the network and log data collected by the sensors, and one or more correlation engines for discovering correlations between the sensors' data and data from other sources.

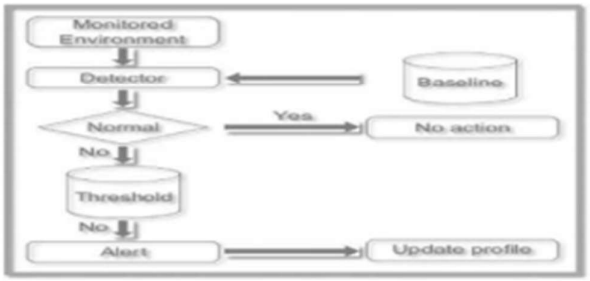

Figure 1: Present invention outline flow diagram

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Registrar
Atmiya University
Rajkot

Atmiya University Rajkot