

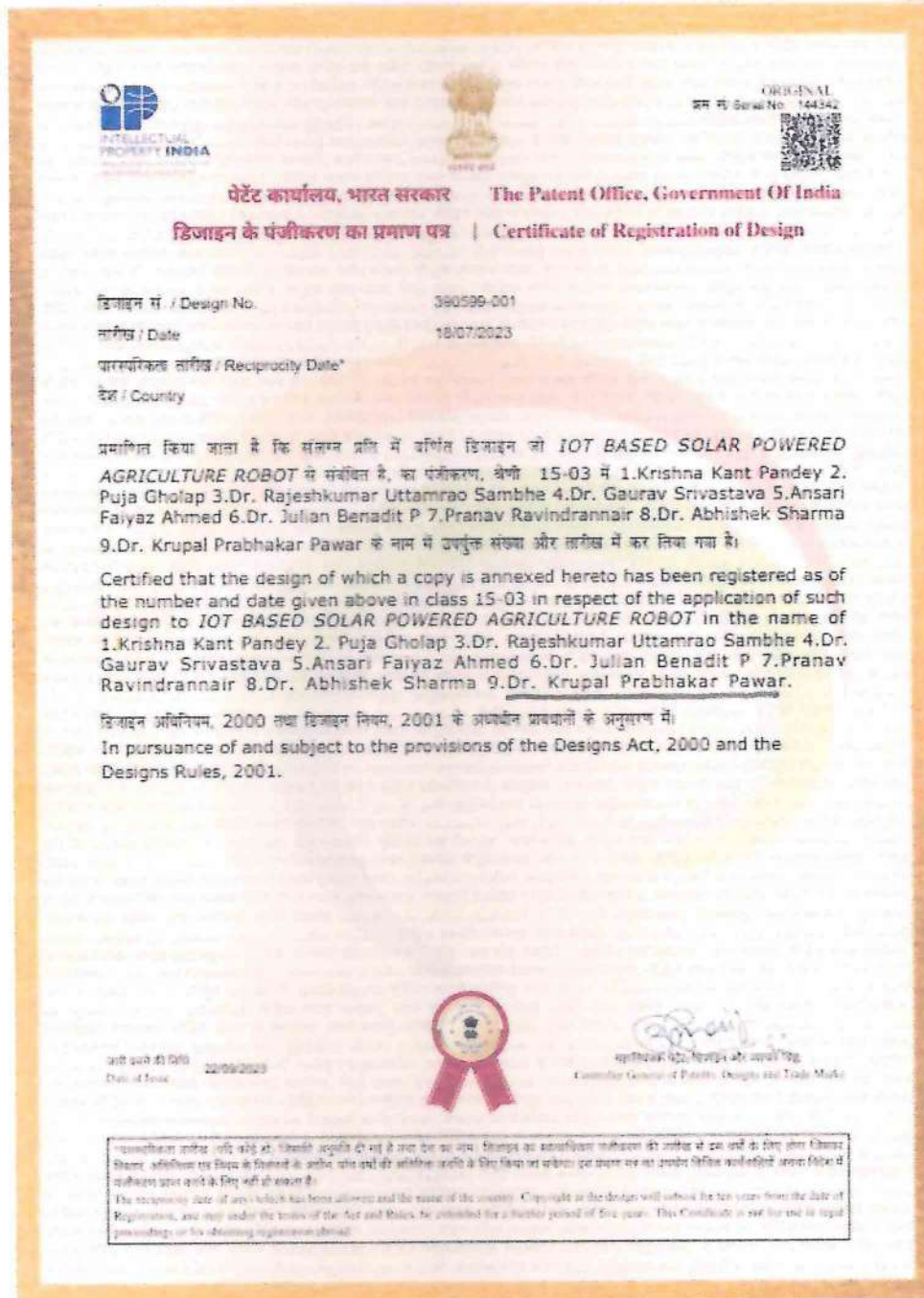


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Staff Name: Dr. Krupal Prabhakar Pawar



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ORIGINAL
आम सं. Serial No. 147703

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.	397976-001
तारीख / Date	19/10/2023
परस्परिकता तारीख / Reciprocity Date*	
देश / Country	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SEATBELT WITH HEARTBEAT MONITORING** से संबंधित है, का पंजीकरण, वर्गी 29-02 में 1. Shri Shankaracharya Institute Of Professional Management And Technology, Raipur 2. Dr. Naveen Jain 3. Mr. Bigit Krishna Goswami 4. Dr. Nishant Yadav 5. Dr. Sheshang Degadwala 6. Dr. Krupal Prabhakar Pawar 7. Er. Sameer Jain के नाम में उपर्युक्त संख्या और तारीख में कर दिया 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 29-02 in respect of the application of such design to **SEATBELT WITH HEARTBEAT MONITORING** in the name of 1. Shri Shankaracharya Institute Of Professional Management And Technology, Raipur 2. Dr. Naveen Jain 3. Mr. Bigit Krishna Goswami 4. Dr. Nishant Yadav 5. Dr. Sheshang Degadwala 6. Dr. Krupal Prabhakar Pawar 7. Er. Sameer Jain.

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

आरी कार्पे डी टिडी
Date of Issue: 21/02/2024

सुधीराम शर्मा, डिप्टी डायरेक्टर
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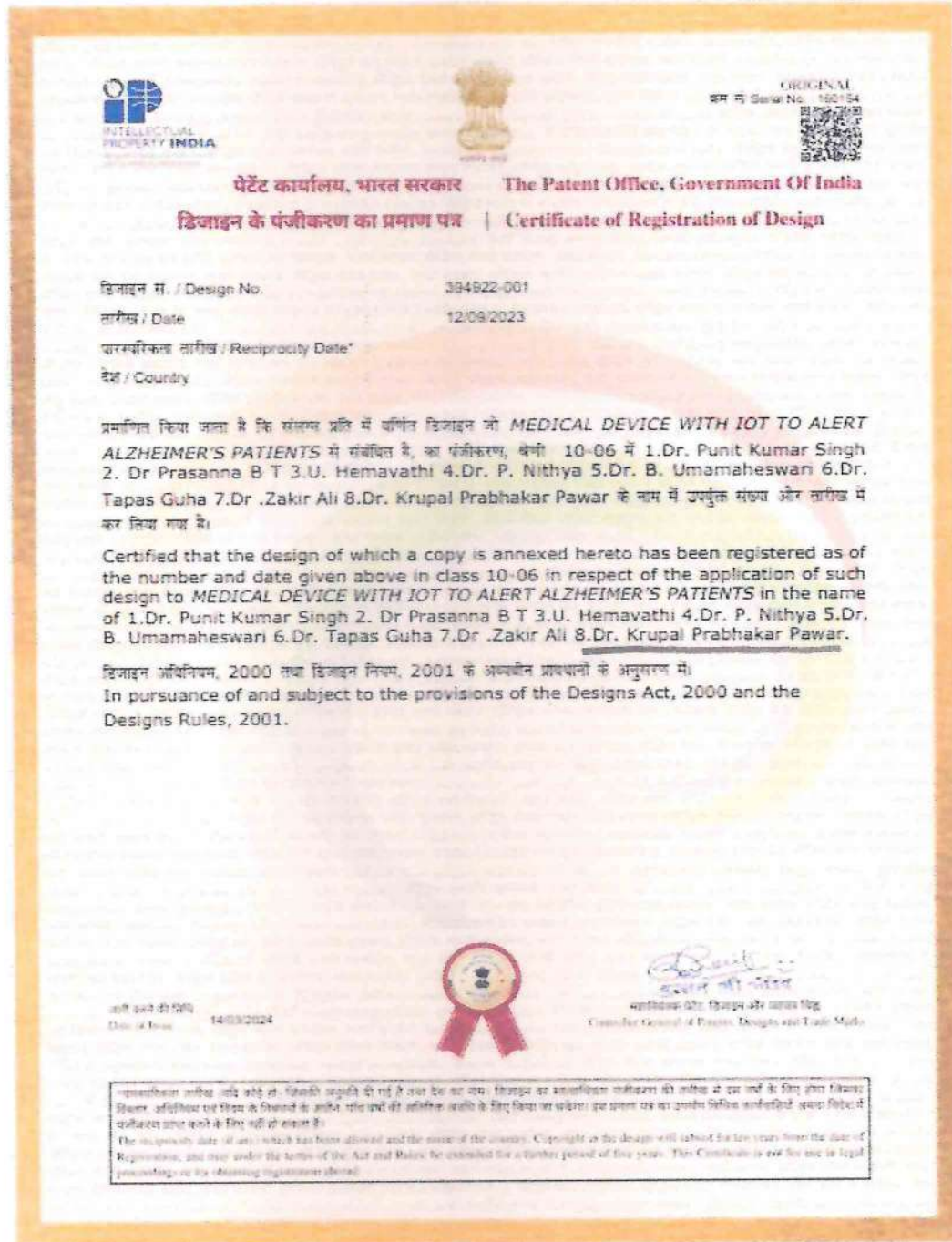


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International Patent Granted:

Staff Name: **Dr. Krupal Prabhakar Pawar**



Certificate of Registration for a UK Design

Design number: 6307961
Grant date: 13 September 2023
Registration date: 06 September 2023

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

Gholap Puja Sharad, Dr. Shekhar Kondibhau Rahane, Dr. Gulla Kishor Kumar,

Chinthamani Jivansi, Dr. Brijesh Sathian, Sulyan Mirza, Dr Lipika Nanda, Dr

Gurkiral Singh, Dr. Rajeshkumar Uttamrao Sambhe, Dr. Krupal Prabhakar

Pawar

in respect of the application of such design to:

AI BASED SENSOR INTEGRATED SAFETY HELMET FOR CONSTRUCTION

WORKERS

International Design Classification:
Version: 14-2023
Class: 02 ARTICLES OF CLOTHING AND HABERDASHERY
Subclass: 03 HEADWEAR

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.



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Representation of Designs



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Certificate of Registration for a UK Design

Design number: 6313371

Grant date: 27 September 2023

Registration date: 20 September 2023

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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. Sudhir Anakal, Mrs. Hemlata Rahul Kosare, Dr. Rajesh Kumar Mourya, Dr.

Sujan Kumar Patel, Dr. Brijesh Sathian, Dr. Hema Rengaraj, Dr. Mohd Uruj

Jaleel, Anugirba Krishnadas, Dr. Gurkirpal Singh, Dr. Krupal Prabhakar Pawar

in respect of the application of such design to:

Smart Device for Monitoring the Activities of Kids Suffering from Autism

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 02 MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY USE

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.


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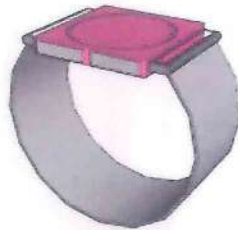
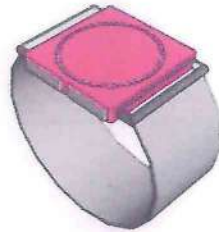
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Patent Filled and Published

Staff : Dr. Krupal Parbhakar Pawar

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202021000633 A

(19) INDIA

(22) Date of filing of Application : 07/01/2020

(43) Publication Date : 17/01/2020

(54) Title of the invention : SOAP HOLDER

(51) International classification : A47K0005050000, A47K0005040000, A47K0005020000, C11D0010040000, A47K0007030000

(31) Priority Document No : NA

(32) Priority Date : NA

(33) Name of priority country : NA

(86) International Application No : NA

Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA

Filing Date : NA

(62) Divisional to Application Number : NA

Filing Date : NA

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(57) Abstract :

Abstract A traditional laundress uses cloth washing soap for the whole day. The major part of these washing soaps consists of unnatural ingredients to retain their bar-like shape like paraffin wax, animal tallow and crude oil derivatives. Thus due to regular touch, they are prone to various skin diseases, birth defects and even liver damage. Also the conventional wet soap rubbing brings in a lot of bruises. The slipping of wet soap can be troublesome. Even due to negligence most of the soaps melt away getting absorbed in water. The wastage is further added when a bar of soap is left to a thin chip. The wastage brings in extra demand for soap. The wasted water and solid chips further add a threat to the environment. Be it a laundry store or let it be any domestic purpose this small entity is a basic requirement. Thus even a small number of wastage from every store and each domestic house could lead to large number. All the factors can be dealt using a special soap holder. This closed holder will simply be fed by soap, thus avoiding contact. The base would be provided with a special net, which would allow the activity. The outer design would be such that it brings in comfort and grip. Also it would have the ability to use up the entire soap. Thus wastage can be avoided and so be cost-efficient to the user.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241070928 A

(19) INDIA

(22) Date of filing of Application :08/12/2022

(43) Publication Date : 16/12/2022

(54) Title of the invention : IoT based Automatic detection and prevention of all types of leaf disease and other environmental factors using AI camera, WSN and Machine learning algorithms

(51) International classification: G06Q09/0020000, G06N03/000000, G01N03/1840000, G10Y002/0050000, H04N007/180000

(56) International Application No: PCT/IN/01/1900

(57) International Publication No: -NA-

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

(52) Divisional Application Number: -NA-
Filing Date: -NA-

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5) Bindhu A
6) Dr. N. Rameshankar
7) Shubhavajkhan Akbar Khan Pathan
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(57) Abstract:
IoT based Automatic detection and prevention of all types of leaf disease and other environmental factors using AI camera, WSN and Machine learning algorithms. ABSTRACT Agriculture plays a key impact in the quantity and quality of food grown in India. Agriculture is the foundation of the majority of the world's economy, therefore it comes as no surprise that the majority of people depend on it for a living. Agriculture employs a vast number of individuals. The amount of money that farmers can earn from their work is greatly dependent on the health of the plants. This can be achieved by continuously checking the plant's health, which is essential during various growth periods. This is essential for safeguarding growing plants from a variety of illnesses. Pests and diseases can make it difficult to assess a crop's growth and have a substantial impact on crop yield. Currently, the system relies on visual monitoring, which is considered time-consuming. Therefore, a system capable of automatically detecting and reporting plant defects as soon as possible is essential. Farmers have developed numerous techniques for detecting plant diseases, which they then report at regular intervals in an effort to eradicate them permanently. Using the benefits of an Internet of Things agricultural land monitoring system and particularly machine learning algorithms, an automated system for detecting and avoiding diseases was developed. These two kinds of algorithms were combined to make it. Thermal imaging sensors, moisture sensors, and solar sensors from the Internet of Things can be utilized to detect plant ailments and eradicate them by autonomous medication spraying. The values vary according to how dissimilar the leaves of various plants are.

No. of Pages : 9 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241068032 A

(19) INDIA

(22) Date of filing of Application :25/11/2022

(43) Publication Date : 23/12/2022

(54) Title of the invention : Artificial Intelligence and IoT based Automatic smart health care system to monitor and predict Common eye disorder and all types of Eye diseases for all ages using image processing, cloud, and deep learning Algorithms

(51) International classification G16H30/05(200601), G16H30/10(200601), G16H30/40(200601), A61P7/02(200601), G16H30/20(200601)

(56) International Application No. PCT/

Filing Date 01/01/2020

(87) International Publication No. NA

(51) Patent of Address to Application Number NA

Filing Date NA

(62) Divisional to Application Number NA

Filing Date NA

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4)T C Thanoja
5)P.Sharmila
6)Dr. Kalyan Das
7)Dr K. Nagaiah
8)P Veera Swamy
9)Y Ramakrishna
10)Krishna Reddy papana
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 Address of Applicant -Assistant Professor, Department of Electronics & Communication Engineering, Dhankula Institute of Engineering & Technology, Affiliated to JNTU, K. Kakinda, Gunguru, Vijayawada-521139 -----

(57) Abstract
 Artificial Intelligence and IoT based Automatic smart health care system to monitor and predict Common eye disorder and all types of Eye diseases for all ages using image processing, cloud, and deep learning Algorithms. Abstract: Recent developments in the Internet of Things (IoT), cloud computing, and artificial intelligence have promoted the transformation of the conventional healthcare system into a smart healthcare system (AI). Utilizing cutting-edge technologies such as the Internet of Things (IoT) and artificial intelligence can enhance medical care (AI). Internet of Things and artificial intelligence can assist the health care industry in numerous ways. Internet of Things (IoT) is required for improved health care. It also makes it easier for physicians and hospitals to carry out their responsibilities. The proposed system consists of a variety of medical devices, such as sensors, as well as PC and mobile applications. The interoperability of apps and devices that can interact across networked devices enables the monitoring and recording of a patient's health data and medical history. Based on the integration of artificial intelligence and the Internet of Things, the current study proposes a new method for smart healthcare systems to detect disease. In this post, we will examine how to construct a model for recognizing eye disorders using AI and IoT.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241071994 A

(19) INDIA

(22) Date of filing of Application : 13/12/2022

(43) Publication Date : 30/12/2022

(54) Title of the invention : Artificial Intelligence and IoT based Automatic rainfall detection and alert system at early stages using rainfall threshold, WSN, Cloud and Machine learning algorithms

(51) International Classification: H04L 69/12(2000), H04N 00/10(2000), G06N 00/20(2000), H04L 90/122(2000), H04W 2004/70(2000)

(56) International Application No: PCI

Filing Date: 01-01-1900

(57) International Publication No: NA

(61) Patent of Addition to Application Number: NA

Filing Date: NA

(52) Divisional to Application Number: NA

Filing Date: NA

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3) N. Kayalvizhi
4) Sayed Abulhasan Qudri
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(57) Abstract
 Artificial Intelligence and IoT based Automatic rainfall detection and alert system at early stages using rainfall threshold, WSN, Cloud and Machine learning algorithms. ABSTRACT An Internet of Things device is a sensor equipped piece of hardware that can transfer data from one thing to another or to people over the internet (IoT device for short). The Internet of Things (IoT) category comprises wireless sensors, software, actuators, and hardware components. By unifying everything into a single, consistent architecture, the Internet of Things aims to provide us with control over our immediate surroundings and keep us abreast of any changes. Using an ATtiny85 microcontroller and a rain sensor, the objective of this inquiry is to develop a rain-activated alarm system. Even though the notion is straightforward, its success will have far-reaching effects. Numerous farming, agriculture, and agriculture-related projects, such as weather stations, can profit from it. This project can be combined with a home automation system to automatically close the windows if it starts to rain. This method can also help windshield wipers on automobiles, especially those used on luxury vehicles such as Teslas.

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


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(21) Application No. 202241073319 A

(19) INDIA

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

(43) Publication Date : 30/12/2022

(54) Title of the invention : Impact of Green HRM Practices on Environmental Performance

<p>(51) International classification : G06Q0010060000, G06Q0010100000, G06Q0030020000, G01N0037500000, G06Q0050200000</p> <p>(86) International Application No : PCT</p> <p>Filing Date : 01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA</p> <p>Filing Date : NA</p> <p>(62) Divisional to Application Number : NA</p> <p>Filing Date : NA</p>	<p>(71) Name of Applicant :</p> <p>1) Dr. Sonia S Address of Applicant : Assistant professor, MA HR and OD, Madras School of Social Work, Egmore, Chennai, Tamilnadu</p> <p>2) Dr. C.H. Venkata Kishore Address of Applicant : Assistant Professor, Chemistry, Dr. Lakshapalli Bullayya College, Visakhapatnam-530007</p> <p>3) Dr. Sumita Pachar Address of Applicant : Academician, GLA University, IBM Department, President VBFT, House No - 935, Amerdeep Colony, Karam Road, Haryana</p> <p>4) Balbhagvan Acharya Address of Applicant : Assistant Professor, Department of Management, MSJ College of Professional Education (Affiliated to Aryabhata Knowledge University) PATNA, BIHAR, INDIA</p> <p>5) Dr. Rashmi Sharma Address of Applicant : Associate Professor, Department of Kriya Sharir, Faculty of Ayurveda IMS BHU, Varanasi, Uttar Pradesh</p> <p>6) Dr. Saurabh Gupta Address of Applicant : Associate Professor Technocrats Institute of Technology and Science Bhopal Anand Nagar, Bhopal, madhyapradesh</p> <p>7) Prof. Dr. Muhammad Nauman Aftab Address of Applicant : Professor Institute of Industrial Biotechnology, Government College University, Katchery Road, Lahore, Pakistan</p> <p>8) Praveen D Address of Applicant : Assistant Professor, Mechanical Engineering, Adichunchanagiri Institute of Technology, Chikkamagalur, Visvesvaraya Technological University, Belgaum, #100, Lakshmi Ranga, Behind CDA office, Bypass road, chikkamagalur, Karnataka</p> <p>9) Dr. Krupal Prabhakar Pawar Address of Applicant : Associate Professor, Mechanical Engineering, Rajiv Gandhi College of Engineering, Karjule Harya, Ahmednagar, Maharashtra</p> <p>10) Dr. Vaddi Seshagiri Rao Address of Applicant : Professor, Mechanical Engineering, St. Joseph's College of Engineering, OMR, Chennai - 119, Chengalpattu, Tamil Nadu</p>
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(57) Abstract : Impact of Green HRM Practices on Environmental Performance ABSTRACT Throughout the past fifty years of global industrialisation, a number of firms have had to overcome significant environmental challenges. This study analyses the relationship between environmental performance and the success of businesses and their employees. This study is based on the theory of social learning and the concept that there are limited resources. According to the study, green recruiting and selection, green performance management and evaluation, green training and development, and green remuneration and awards all had substantial impacts. Future research should consider a number of crucial policy findings about low-income individuals' aversion to change. Additionally, both theoretical and practical ramifications are explored.

No. of Pages : 9 No. of Claims : 8

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(21) Application No. 202241073960 A

(19) INDIA

(22) Date of filing of Application : 20/12/2022


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(54) Title of the invention : Artificial Intelligence based Automatic Smart Wearable to monitor and track to provide safety for all ages of women using cloud, WSN and Machine learning algorithms

<p>(51) International Classification: G08B01/25(2006), G08B01/25(2006), G08B01/25(2006), G08B01/25(2006), G08B01/25(2006), G08B01/25(2006)</p> <p>(56) International Application No: PCT/IN/2022/00000, IN/2022/00000</p> <p>(57) Filing Date: 01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(67) Patent of Addition to Application Number: NA</p> <p>(62) Divisional to Application Number: NA</p>	<p>(71) Name of Applicant : 1) Dr. J. Jean Justus Address of Applicant: Associate Professor Computer Science and Engineering, St. Joseph's College of Engineering, OMR, Chennai 600119, TamilNadu</p> <p>2) N. Indumathi 3) L. Dharsanam Deepthi 4) Pranas Ravindranair 5) Dr. Saleem Ahmed 6) K.V.B. Saraswathi Devi 7) CH N V Mallikharjuna Rao 8) Dr. Krupal Prabhakar Pawar 9) B. Divya Rekha 10) Snehasa P 11) Dr. Sharad Timaji Tujane</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor : 1) Dr. J. Jean Justus Address of Applicant: Associate Professor Computer Science and Engineering, St. Joseph's College of Engineering, OMR, Chennai 600119, TamilNadu</p> <p>2) N. Indumathi Address of Applicant: Assistant Professor, Computer science and Engineering, SNSA College of Engineering and Technology, Kothandaraman Nagar, Dindigul - 624622</p> <p>3) L. Dharsanam Deepthi Address of Applicant: Assistant Professor, Computer science and Engineering, SNSA College of Engineering and Technology, Kothandaraman Nagar, Dindigul - 624622</p> <p>4) Pranas Ravindranair Address of Applicant: Assistant Professor, Department of Automobile Engineering, MVSR Engineering College, Nandigudi, Hyderabad, Telangana</p> <p>5) Dr. Saleem Ahmed Address of Applicant: Assistant Professor, Graduate School of Computer Science, BU University of Technology (BU) Phnom Penh, Cambodia, Doha Qatar</p> <p>6) K.V.B. Saraswathi Devi Address of Applicant: Assistant professor, Computer science, Bhavan's Vivekananda College, Santhipuri, Puri, Khorda, Raigarh Roady, Medchal, Telangana</p> <p>7) CH N V Mallikharjuna Rao Address of Applicant: Lecturer, Computer Science, Bhavan's Vivekananda College, Santhipuri, Secunderabad, Medchal, Telangana</p> <p>8) Dr. Krupal Prabhakar Pawar Address of Applicant: Associate Professor, Mechanical Engineering, Rajiv Gandhi College of Engineering, Karjuleharya, Ahmednagar, Maharashtra</p> <p>9) B. Divya Rekha Address of Applicant: Assistant Professor, Bhavan's Vivekananda College, Santhipuri, Secunderabad, Flat no 201 Golden Vile apt. road no 11 Vivekanandapuram, santhipuri, secunderabad, Raigarh Roady, Medchal, Telangana</p> <p>10) Snehasa P Address of Applicant: Lecturer, Computer Science, Bhavan's Vivekananda College, Chennai University, Medchal, Telangana</p> <p>11) Dr. Sharad Timaji Tujane Address of Applicant: Assistant Professor Department of Chemistry Bhavan's College (Autonomous) Andheri, Mumbai - 400052, Maharashtra, India</p>
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(57) Abstract
 Artificial Intelligence based Automatic Smart Wearable to monitor and track to provide safety for all ages of women using cloud, WSN and Machine learning algorithms. **ABSTRACT** Over the past several decades, numerous individuals and organizations have invested a great deal of time and resources to make it easier to hire and retain women in all occupations. Several harassment of women in the workplace and elsewhere has sparked grave worries about the long-term effects of such discrimination. These facts have been studied over the course of several years. Because the pace of this global era cannot be slowed, we feel that technology will be of great assistance in finding a way to reduce the stress in women's lives. It is alarming that harassment of women is on the rise in contemporary culture. The situation is dire in every country, from the poorest to the richest. Therefore, it is challenging for a nation's economy to flourish and for women to advance. Simply said, women are the most essential element of any economy. Due to the hypocrisy of society, many crimes against them go unreported. When victims attempt to report their assaults to the authorities, they are typically subjected to further harassment and torture. In India, just 25% of cases result in a guilty verdict. This project's smart device, which combines pressure, pulse rate, and gyroscope sensors, is meant to keep women safe by promptly informing police in the event of a possible crime. In the event of an emergency, the females are equipped with a push button-shaped manual component. It cannot, however, be utilized during a panic episode. In this challenging circumstance, the automatic system comes to the rescue. If something unexpected occurs, you can utilize a GSM and GPS system to notify your loved ones and authorities of your location and situation. A second set of shock absorbers is added to the system, and a video camera gives police with an image of the incident, making it easier to locate the offender. To prevent providing the police with false information, you may withdraw your report at any moment.

No. of Pages : 10 No. of Claims : 8


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(54) Title of the invention : Automatic smart Health care System to prevent and detection of all types of Tumors based on bacteria to enhance anti-tumor immunotherapy using Artificial Intelligence and Machine Learning Algorithms

(51) International Classification	A61P015000000, G06N000100000, G06N000100000, G11B0050200000, A61B0001055000	(71) Name of Applicant :	1) IADIL CHANDRANSEKHAR Address of Applicant : Professor, Department of I.C.E., ISTS Women's Engineering College, JNTUK, 18-1-4 Flat No. G1&G2, Dwarakamai Apartments, Krishna Nagar, Seetam Peta School, Rajahmundry, East Godavari, Andhra Pradesh, India
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(51) Patent of Addition to Application Number	NA	8) Prof. Hepsi Natha	9) Mr. Suraj Kumar
Filing Date	NA	10) Dr. Sharad Timaji Tajane	11) Dr. Krupal Prabhakar Pawar
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(57) Abstract
Automatic smart Health care System to prevent and detection of all types of Tumors based on bacteria to enhance anti-tumor immunotherapy using Artificial Intelligence and Machine Learning Algorithms. ABSTRACT In recent years, smart healthcare has become increasingly popular due to technological improvements. Smart healthcare providers are transforming the traditional healthcare system by employing cutting-edge information technologies such as the internet of things (IoT), big data, cloud computing, and artificial intelligence to provide their patients with superior, more accessible, and individualized care. According to websites featuring the phrase brain tumor in the headline, there are 700,000 people with primary brain tumors in the United States, and 85,000 new cases are identified each year. Brain cancer is the greatest cause of mortality worldwide. AI has intervened to aid the medical community and the general public, as fixing this problem. MRI or magnetic resonance imaging, is the standard approach for identifying whether a person has a brain tumor. In medical imaging and image processing, magnetic resonance imaging is commonly used to detect differences across body parts. In this investigation, we analyzed a huge number of research articles to determine the efficacy of deep learning algorithms with MRI data. Then, we examined various solutions to the problems that had emerged in the industry. In medical image processing, convolutional neural networks are a branch of deep learning that has shown considerable promise.

No. of Pages : 11 No. of Claims : 8

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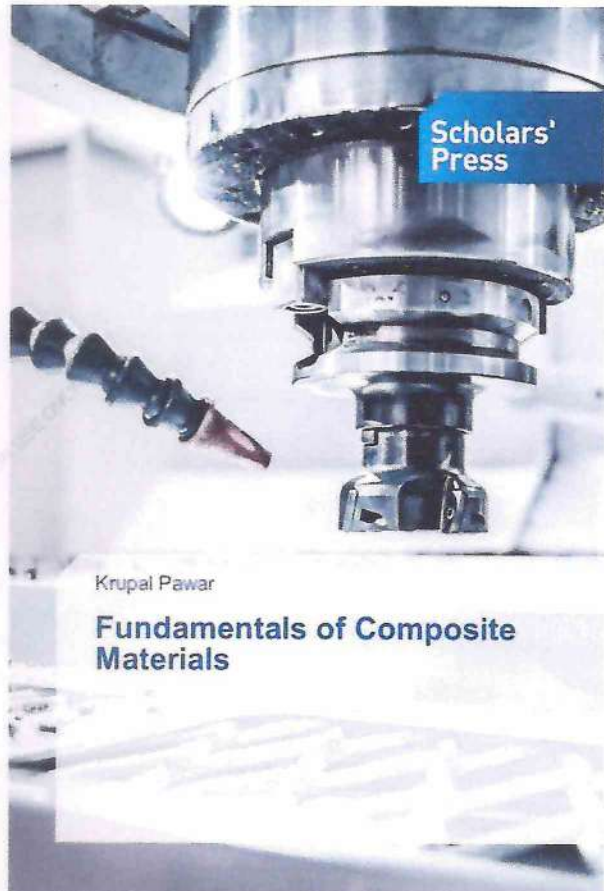
Chapter consists of: History of Composite Material, Introduction, Key Elements of Composite Materials, Some Common Types of Composite Materials, Manufacturing of Composite Material, Mathematical Model for Composite Material, Applications of Composite Material, Characteristics of Composite Material, Composite Design Methods, Method to Calculate the Mechanical Properties of Composite Laminate, Micromechanics of Composite Material, Macro-mechanics of Composite Material, Finite Element Analysis of Composite Material, Failure Analysis of Composite Material, Non-destructive Testing for Composite Material, Mechanical Testing of Composite Material, Microscopic Analysis of Composite Material, Composite Material Failure Modes, Several Methods to Prevent Composite Material Failure, Advance Composites, Energy Optimization in Composite Material, Selection of Composite Material, Optimization in Composite Design, MATLAB Code for Optimization of Composite Material, Recent Trends in Composite Materials, Research Gap related to Composite Material, Conclusion.



Dr. Krupal Pawar is working as Assistant Professor & Vice Principal at Rajiv Gandhi College of Engineering. He has 13 Years of Teaching Experience. He has Filed and Published 10 Patents and 2 Copyright. He is author of 2 books.




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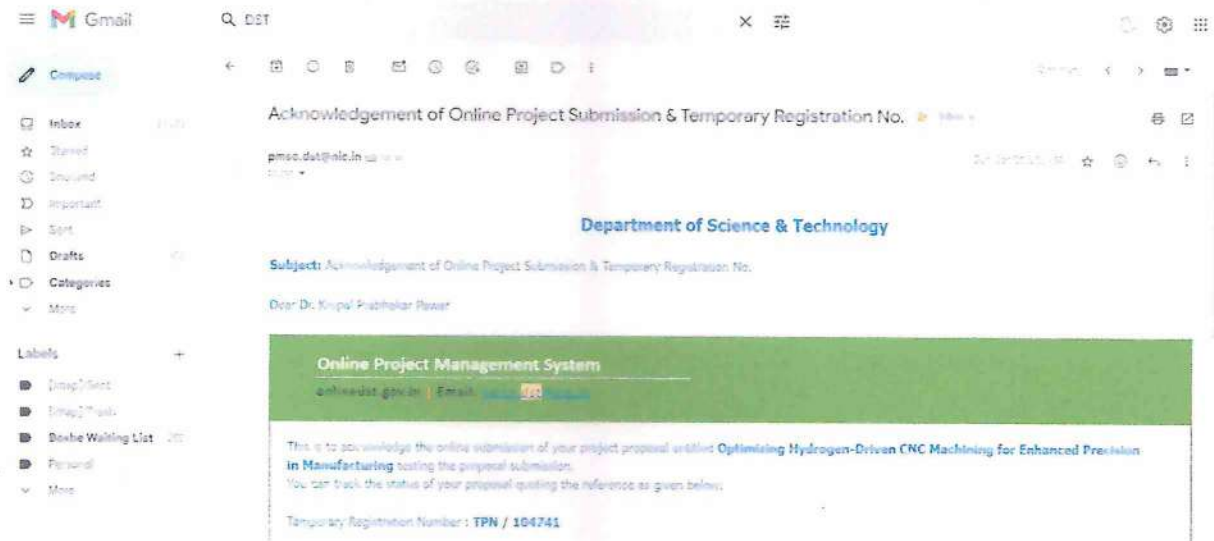
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