

Patent Details for Verification_NIRF 2026

Note: Provide your Institution's Patent details (Only Utility Patents) Discipline-wise as applied for NIRF Ranking each in Separate List/Table (Only Published & Granted) clearly write/mention the Discipline & Institute ID above the List/Table as prescribed. Details of the Design, Trademarks, or Copyrights, and only Filed Patents must be list below as those won't be considered for the ranking. Patent details must be submitted along with all the source proofs (attached) like screenshots, pdf, image file Innovation, etc. and direct URL/Website links, etc.

Discipline Name applied for NIRF 2025 Ranking: e.g. IR_OVERALL / IR_ENGINEERING / IR_MEDICAL / IR_PHARMACY / IR_DENTAL

Provide below the Year-wise Count of Submitted Patent Data by the Institute (2021 to 2023) for NIRF2025 as applied in Discipline-specific:

Published_2022	Published_2023	Published_2024	Granted_2022	Granted_2023	Granted_2024	Total Published (2022-2024)	Total Granted (2022-2024)
2	6	10	0	6	4	18	10

Patent Details with proofs (Attach screenshots, pdf, image file, etc.):

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)
1	202221003373	Published	Prof Archana Shirsath	Conceptual framework of artificial intelligence in human resource management	Rishu Roy	20/01/2022	18/02/2022
2	202221043701	Published	Dr .Deepak kadam	A Solar Air Purifier	Dr. Mohite Utlarsha Lakshman	30/07/2022	02-02-2024
3	202321047867	Published	Prof. Sachin banait	Machine learning based gradient boosting regression approach for wind power	Archana Banait	16/07/23	18/08/2023
4	202221049276	Published	Dr Utkarsha Mohite	An artificial intelligence based fire fighting robot	Dr. Deepak kadam	29/08/2022	03-01-2024
5	202121033752	Published	Dr. Madam Kharat	Technologies toward 5g network for intelligent healthcare using IOT notification	Dr. Madam Kharat	27/07/2021	20/8/2021
6	202421038617	Published	Prof Archana Shirsath	A visible light LED bulb based photoreactor for studies on photo catalytic activity	Prof Archana Shirsath	16/05/24	14/6/2024
7	202421006660	Published	Prof Shinde madhuri	Analysis and Implementation of data sharing and privacy preserving technique	Dr shyamrao Ghumaste	02-01-2024	23/2/2024
8	361252001	Published	Dr.M.U.Kharat	The novelty resides in the shape & configuration of the "Accident notifying device for vehicle"	Dr.M.U.Kharat	21-03-2022	22-03-2022
9		Published	Dr.Pradnya S.Raut	Apparatus for Isolation and Recovery of Chemical Compounds	Prof.Shilpa S.Shinde	20-01-2024	
10		Granted	Dr.Pradnya S.Raut	Apparatus for Isolation and Recovery of Chemical Compounds	Prof.Shilpa S.Shinde	21-01-2024	

11		Granted	Prof Amit Subhash Patil	Solar water distillation apparatus	Prof Amit Subhash Patil	21/01/2023	04-05-2023
12		Granted	Prof Archana Banait	Augmented reality screen	Prof Archana Banait	12-05-2023	31/1/2024
13		Granted	Prof Archana Banait	Wheel Disc with finger grip	Prof Archana Banait	23/04/2023	19/1/2024
14		Granted	Prof Archana Banait	Wheel Disc	Prof Archana Banait	30/04/2023	16/2/2024
15		Granted	Prof. Harshal Chavan	Sprinkler	Prof. Harshal Chavan	12-05-2023	02-01-2024
16		Granted	Dr Shyamkumar D Kalpa	Agriculture drone for monitoring and spraying pesticide	prof. Ashwin Patil	16/02/2024	18/04/2024
17	202441077983	Published	Dr. Dhiraj Devrao Deshmukh, 3. Dr. Sachin Prabhakar Kakade, 5. Prof. Sachin Kamlakar Dahake	AI Based Advanced Robot for Welding	Dr. Dhiraj Devrao Deshmukh, 3. Dr. Sachin Prabhakar Kakade, 5. Prof. Sachin Kamlakar Dahake	15-10-2024	25-10-2024
18	202321045685	Published	AMIT SUBHASH PATIL 5. YOGESH SAMPAT MORE	Improvement in surface quality of hole and tool health of helical milling for Ti6Al4V using hybrid trinano flood coolant along with optimizing shearing parameters	AMIT SUBHASH PATIL 5. YOGESH SAMPAT MORE	07-07-2023	05-11-2024
19	453984-001	Published	Dr. Amit S. Patil ,Dr. Sushil V. Ingle	SELF ACTING UPLINK SPRING LOADED HOOK	Dr. Amit S. Patil ,Dr. Sushil V. Ingle	02-04-2025	23-07-2025
20	454321-001	Published	Dr. Amit S. Patil 7.Dr. Sushil V. Ingle	MULTI-ANGLE HAND TWISTER FOR METAL STRIPS	Dr. Amit S. Patil 7.Dr. Sushil V. Ingle	04-04-2025	03-07-2025
21	202321027871	Published	Dr.Shyamrao V. Gumaste	DEEP NEURAL NETWORKS ARE USED TO SOLVE NETWORK ROUTING PROBLEMS SUCH AS NETWORK CONGESTION IN MOBILE AD HOC NETWORKS (MANETS)	Dr.Shyamrao V. Gumaste	17/04/2023	05-05-2023
22	412420-001	Granted	Dr. Nisha D. Patil	ARTIFICIAL INTELLIGENCE BASED STRESS DETECTION DEVICE	Dr. Nisha D. Patil	04-02-2024	06-06-2024
23	424980-001	Granted	Dr. Nisha D. Patil	CUTTING EDGE AIR COOLING DEVICE	Dr. Nisha D. Patil	28/07/2024	
24	451744-001	Granted	1.Prof. Shital S. Bedse 2..Prof.Deepali S. Suryawanshi	DESIGN OF FOOD DELIVERY DRONE WITH AI TECHNOLOGY	1.Prof. Shital S. Bedse 2..Prof.Deepali S. Suryawanshi	21/12/2024	17/03/2025

25	468026-001	Granted	1. Nitin Dilip Dhamale 2. Nilesh S. Ahire	SKIN DIAGNOSTIC AI DEVICE	Nitin Dilip Dhamale	31/07/2025	
26	432293-001	Published	Radha P. Sali	ARTIFICIAL INTELLIGENCE BASED PROCESSING DEVICE FOR DATA ANALYTICS	Radha P. Sali	30/09/2024	22/11/2024
27	454966-001	Published	Dr.Kalindi D.Mahajan	Smart Trolley Billing System	Dr.Kalindi D.Mahajan	45934	45934
28	2.02421E+11	Published	AMIT S.Ufade	Portabel Device for Plant Disease Detection with Integrated Imaging,AI and Blockchain Security	AMIT S.UFADE	45452	45606
29	2.02421E+11	Published	AMIT S.Ufade	Advacned Credit Risk Evaluation System Utilizing Big- Data and Real_time Financial Behavior analysis	AMIT S.UFADE	45452	45606
30	6462873	Published	Pankaj A. Patil	AI BASED SMART IRRIGATION AND FERTILIZER CONTROL DEVICE	Pankaj A. Patil	45452	15-08-2025

during 2021 – 2023 year-wise) strictly in this provided format, and avoided. Those details should not be entered or provided in the from databases like InPASS, WIPO, USPTO, Espacenet, Derwent

Institute ID: e.g. C-00000 / U-00000

Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
May-24	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
33/2023	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
34/2021	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
24/2024	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
Aug-24	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
163621	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
163622	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf

377770-001	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
401419-001	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
384597-001	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
385362-001	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
401343-001	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
407760-001	MET -BKC-IOE , Nashik	https://metbkcengg.ac.in/IOEData/Research%20&%20Development/Patent/patent%20published%20and%20granted%202024-25.pdf
202441077983A	MET, Bhujbal Knowledge City, Institute of Technology, BTech, Nashik-422003	
53623	MET, Bhujbal Knowledge City, Institute of Engineering,, Nashik-422003	
453984-001	MET, Bhujbal Knowledge City, Institute of Engineering,, Nashik-422003	
454321-001	MET, Bhujbal Knowledge City, Institute of Engineering,, Nashik-422003	
202321027871 A	MET's Institute of Engineering, Nashik	https://drive.google.com/file/d/1_XksHYiOSjEIN2b-9ajkuiXkgv7xSql/view?usp=drive_link
412420-001	MET's Institute of Engineering, Nashik	https://drive.google.com/drive/u/2/home
424980-001	MET's Institute of Engineering, Nashik	https://drive.google.com/drive/u/2/home
451744-001	MET's Institute of Engineering, Nashik	https://drive.google.com/file/d/1jrtD6YDrEFSB8PaTkGml3G5kXxBeu5_u/view?usp=drive_link

468026-001	MET's Institute of Engineering, Nashik	https://drive.google.com/file/d/1gidYhC--L5UoSoJkbz5tJjKCFDtaarX3/view?usp=drive_link
432293-001	MET's Institute of Engineering, Nashik	IDGP88 - 432293-001.pdf
207747	MET's,Institute of Engineering,BKC,Nasik	Patent FER Status.JPG
2.02421E+11	MET's,Institute of Engineering,BKC,Nasik	https://drive.google.com/file/d/1PlqT41ZmySmQQv_7Cu1UBN6S3LZsriNr/view?usp=sharing
2.02421E+11	MET's,Institute of Engineering,BKC,Nasik	https://drive.google.com/file/d/1oC9PcVvr2qrO1LaOv-6_EnBVngc5BCrA/view?usp=sharing
6462873	MET's,Institute of Engineering,BKC,Nasik	https://drive.google.com/file/d/1mJUAJowyxSxm96ShDnrp-Zwu982co30S/view?usp=sharing



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6462873

Grant date: 15 August 2025

Registration date: 06 August 2025

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.Dnyaneshwar Dadaji Ahire, Pankaj Ashok Patil, Dr. Mirza Samiulla Beg, Mr.

Mithun Namdev Patil, Kajal Wagh, Dr. Medha Misar, Dipika Dnyaneshwar

Jeughale, Dr. Renu Prajapati

in respect of the application of such design to:

AI BASED SMART IRRIGATION AND FERTILIZER CONTROL DEVICE

International Design Classification:

Version: 15-2025

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 03 AGRICULTURAL AND FORESTRY MACHINERY

Adam Williams

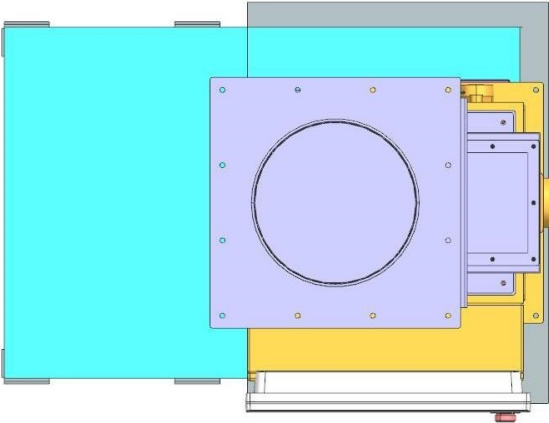
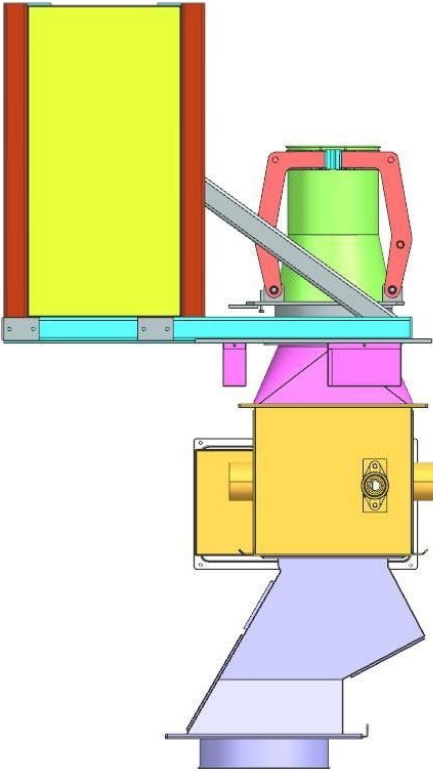
Comptroller-General of Patents, Designs and Trade Marks

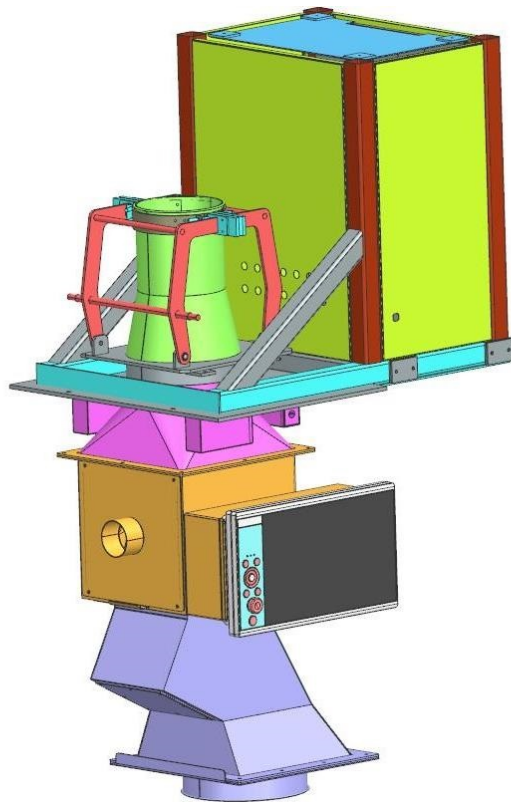
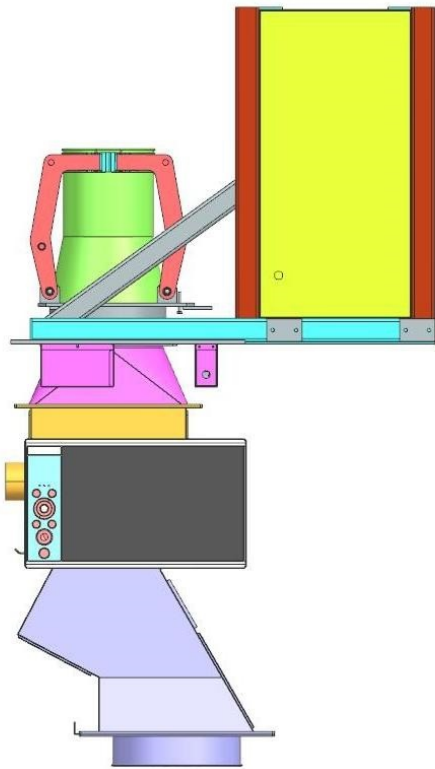
Intellectual Property Office

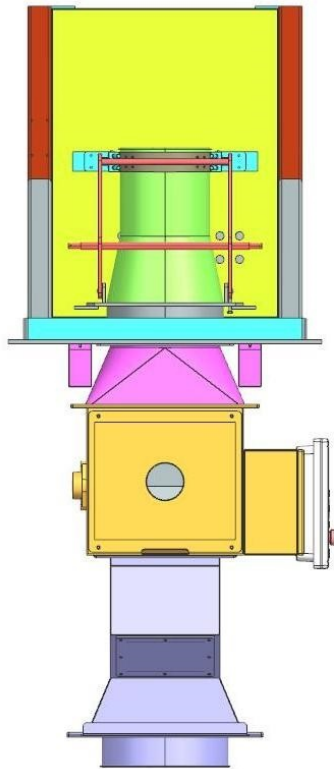
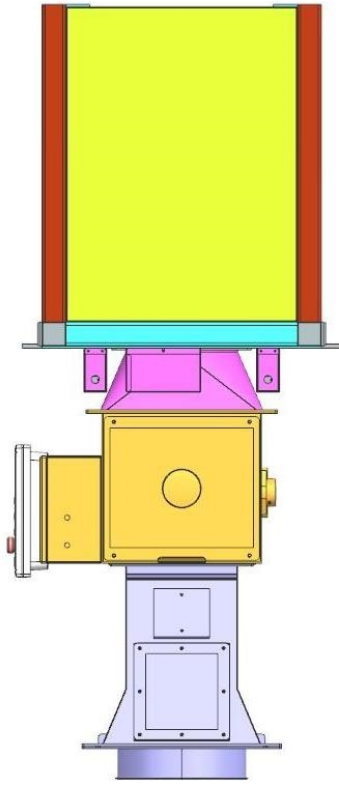
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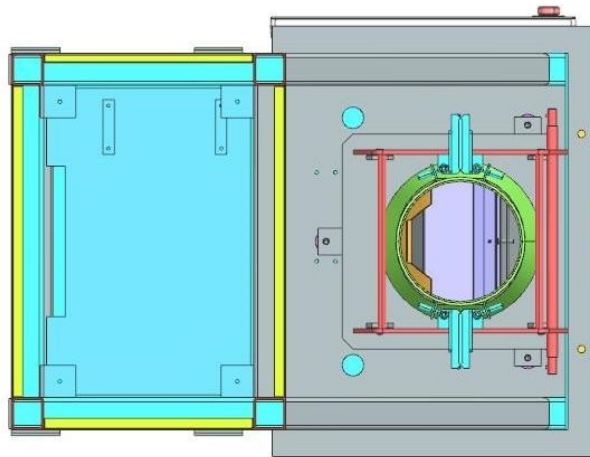


Representation of Designs









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www.gov.uk/ipo



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



Application Details

APPLICATION NUMBER	202221003373
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/01/2022
APPLICANT NAME	1 . Rishu Roy 2 . Dr. Vanita Joshi 3 . Dr Neetika Shrivastava 4 . Dr. Swati Chaplot 5 . Dr. Amrita Chaurasia 6 . Archana Satish Shirsat 7 . Dr. Pooja Nagpal
TITLE OF INVENTION	CONCEPTUAL FRAMEWORK OF ARTIFICIAL INTELLIGENCE IN HUMAN RESOURCE MANAGEMENT
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	rishuroy1429@gmail.com
ADDITIONAL-EMAIL (As Per Record)	rishuroy1429@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/02/2022

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421038617 A

(19) INDIA

(22) Date of filing of Application :16/05/2024

(43) Publication Date : 14/06/2024

(54) Title of the invention : A VISIBLE LIGHT LED BULB BASED PHOTOREACTOR FOR STUDIES ON PHOTOCATALYTIC ACTIVITY OF BISMUTH FERRITE FOR DEGRADATION OF METHYLENE BLUE

(51) International classification :B01J0035000000, C02F0001300000, C02F0101300000, B01J0021060000, C02F0001720000

(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)Sanjay Raghunath Gadakh

Address of Applicant :Maratha Vidya Prasarak Samaj's Arts, Science & Commerce College Ozar(Mig), Tal.Niphad,Dist. Nashik- Ozar(Mig) -----

2)Nilesh Nana Mharsale

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Sanjay Raghunath Gadakh

Address of Applicant :Maratha Vidya Prasarak Samaj's Arts, Science & Commerce College Ozar(Mig), Tal.Niphad,Dist. Nashik-422206 Nashik -----

2)Nilesh Nana Mharsale

Address of Applicant :Dept. of Physics, K.R.T. Arts, B.H. Commerce and A.M. Science College (K.T.H.M. College),Gangapur Road, Nashik - 422002 Nashik -----

3)Archan Satish Shirsat

Address of Applicant :Mumbai Educational Trust, Institute of Engineering,Bhujbal Knowledge City, Adgaon, Tal. Nashik, Dist. Nashik-422003 Nashik -----

(57) Abstract :

The interface between the photocatalyst and dissolved pollutants is substantially improved in suspended catalyst photocatalytic reactors as compared to those using immobilized catalyst. The current study's objectives were to design and examine the new reactor. The effectiveness of photocatalyst in removing dye degradation from water. The degradation of Methylene Blue of different pH over time was used as a foundation for evaluating the reactor's performance. The performance of the reactor was investigated by the degradation of Methylene Blue dye at a concentration of 10-5 Molar by the photocatalyst BiFeO₃ nanoparticles. It was found that the degradation of Methylene Blue dye was improved to 94% to 98% by the recommended photocatalyst BiFeO₃ nanoparticles in one to two hours in the fabricated photoreactor a visible light led bulb based photoreactor.

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

Design Application Details

Application Number:	454966-001
CBR Number:	207747
CBR Date:	10/04/2025 22:05:32
Applicant Name:	1. Kalindi Deepak Mahajan 2. Shubham Chhatrapati Anjankar 3. Sania Mohammed Arif Khan 4. Shantanu Krushna Chinchle 5. Om Waman Khandale 6. Kajal Krishna Raut 7. Dr. Sangita Vilas Pawar

Design Application Status

Application Status:	Examination Report has been Generated , Online Reply Document Received(FER generated on 18/06/2025)
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Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202421066077
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/08/2024
APPLICANT NAME	1 . Dr Hemraj R Kumavat 2 . Amit S Ufade 3 . Dr Mahesh R Sanghavi 4 . Dr Kainjain M Sanghavi 5 . Madhuri D Kawade 6 . Swati Vishal Sinha 7 . Yashraj Sandeep Patil 8 . Nayana Chaskar 9 . Siddiqui A Mohsin 10 . Fahad Bilal
TITLE OF INVENTION	PORTABLE DEVICE FOR PLANT DISEASE DETECTION WITH INTEGRATED IMAGING, AI, AND BLOCKCHAIN SECURITY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ipr.personal24@gmail.com
ADDITIONAL-EMAIL (As Per Record)	kumavathr1981@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	06/09/2024
PUBLICATION DATE (U/S 11A)	11/10/2024

Application Status

APPLICATION STATUS

Application Awaiting Examination



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry.
Government of India



Application Details

APPLICATION NUMBER	202421066432
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/09/2024
APPLICANT NAME	1 . Dr Hemraj R Kumavat 2 . Amit S Ufade 3 . Dr Mahesh R Sanghavi 4 . Dr Kainjain M Sanghavi 5 . Madhuri D Kawade 6 . Dr Khyati Nirmal 7 . Dr Suchita B Jadhav 8 . Yogita K Desai 9 . Deepali P Pawar 10 . Nayana Chaskar
TITLE OF INVENTION	ADVANCED CREDIT RISK EVALUATION SYSTEM UTILIZING BIG DATA AND REAL-TIME FINANCIAL BEHAVIOR ANALYSIS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ipr.personal24@gmail.com
ADDITIONAL-EMAIL (As Per Record)	kumavathr1981@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	06/09/2024
PUBLICATION DATE (U/S 11A)	11/10/2024

Application Status

APPLICATION STATUS

Application Awaiting Examination

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[Contact Us \(http://ipindia.nic.in/contact-us.htm\)](http://ipindia.nic.in/contact-us.htm) [Help Line \(http://ipindia.nic.in/help-line-page.htm\)](http://ipindia.nic.in/help-line-page.htm)

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Patent Search

Invention Title	A SOLAR AIR PURIFIER
Publication Number	05/2024
Publication Date	02/02/2024
Publication Type	INA
Application Number	202221043701
Application Filing Date	30/07/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	F24F0003160000, B01D0046000000, B01D0047020000, F24F0011560000, F24F0011300000

Inventor

Name	Address	Country
KADAM, Deepak Prakash	Shyam Villa Apartment, Flat No. 9, Konark Nagar, Adgaon, Nashik, Maharashtra, India - 422003	India
MOHITE, Utkarsha Laxman	Flat No.6, Tulshi Krupa Apartment, Behind BMS Super market, Kalangar, Nashik Road, Nashik, Maharashtra, India - 422101	India
KHALADKAR, Janhavi Kishor	Near Akash Petrol Pump, Behind Jay Tuljabhavani Mandir, Dindori Road, Mhasrul, Nashik, Maharashtra, India - 422004	India
SHELAR, Sharvari Ramesh	Flat No. 6, Vigneshwar Park, Shivaji Nagar, Ozar, Maharashtra, India - 422207	India
BHAVSAR, Gauri Avinash	2-A Pooja Residency Opp. Garva Store Icchamani Road Upnagar Nashik, Maharashtra, India - 422006	India
KHAIRNAR, Swapnil Dhanraj	400 Kv Substation, M.S.E.B. Colony, Varkhedi Kundane, Dhule, Maharashtra, India	India
GAIDHANI, Apurva Dinkar	14th,RaghunandanRowhouse, Kalanagar,Jail road, Nashik Road, Maharashtra, India -422101	India
BAGAD, Abhijeet Nandkishor	244, Old Post Lane, Parola- Jalgaon, Maharashtra, India - 425111	India
MALPURE, Divya Sunil	Plot No.6, DattaDurga Nagar, Dharangaon, Jalgaon, Maharashtra, India - 425105	India
AGLAVE, Nikita Dagadu	Sawalivihirbk, Chari no.10, Aglavevasti, Shirdi, Tal - Rahata, (423109) Dist. Ahmednagar, Maharashtra, India	India

Applicant

Name	Address	Country	Nati
MET's Institute of Engineering	Bhujbal Knowledge City, Adgaon Nashik, Maharashtra, India - 422003	India	Indi

Abstract:

The present invention relates a solar air purifier which is a compact air purifier system using fans and filter layers for the air coming through the chamber duct. Devel purifier such that it should be powered with the help of solar power, so as to reduce the electricity consumption bill. It comprises a rectangular cross-section chambe polluted air from the environment is sucked using a fan and in the chamber the rack arrangement is close fitted containing the atomizers and the baffle arrangement outlet side of the chamber is elevated from the base to reduce the air flow speed and amount of moisture in the clean air; and a clearance is provided at the bottom i chamber for easy flow of water containing particulate matter.

Complete Specification

Description: TECHNICAL FIELD OF INVENTION

The present invention in general relates to field of solar energy, air purification. More specifically relates to a solar air purifier.

BACKGROUND OF THE INVENTION

Solar produces no harmful emission, it is clean, renewable process that uses most natural of all resources: the sun.

Day by Day the quality of air which we breathe is very polluted. The Air Quality Index deteriorates very harshly after a time of fireworks and campfires in winter. Bac not good for health, since it impacts lungs of human beings.

The commercial air purifier available in the market is at a very high rate and is not affordable for the common man. Also, this air purifier consumes too much electricity power, which costs a heavy electricity bill.

The normal air purifier with proper features is bulky in size and is not adjustable in homes of common man

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 16/07/2023

(21) Application No. 202321047867 A

(43) Publication Date : 18/08/2023

(54) Title of the invention : MACHINE LEARNING BASED GRADIENT BOOSTING REGRESSION APPROACH FOR WIND POWER PRODUCTION FORECASTING

(51) International Classification : F03D 070200, F03D 092500, G06N 050000, G06N 200000, G06N 202000
(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. Satish S Banait
Address of Applicant : Assistant Professor, Department of Computer Engineering, K. K. Wagh Institute of Engineering Education & Research, Nashik, Amrutdhan Panchwati -422003, Maharashtra, India Nashik -----

2) Dr. Prajakta Sachin Vispute
3) Prof. Sanjay Anil Agrawal
4) Prof. Rucha Abhishek Agrawal
5) Prof. Archana S. Banait

Name of Applicant : NA
Address of Applicant : NA

(72) Name of Inventor :

1) Dr. Satish S Banait
Address of Applicant : Assistant Professor, Department of Computer Engineering, K. K. Wagh Institute of Engineering Education & Research, Nashik, Amrutdhan Panchwati -422003, Maharashtra, India Nashik -----

2) Dr. Prajakta Sachin Vispute
Address of Applicant : Shirang Near K. J. Mehta, Dwarkawadi, Nashik Road, Nashik - 422011, Maharashtra, India Nashik -----

3) Prof. Sanjay Anil Agrawal
Address of Applicant : Assistant Professor, Department of Computer Engineering, Marathwada Mitra Mandal's Institute of Technology, Vadgaon Shinde Road, Lohgaon, Pune - 411047, Maharashtra, India Lohgaon -----

4) Prof. Rucha Abhishek Agrawal
Address of Applicant : Assistant Professor, Department of AI & DS, Marathwada Mitra Mandal's Institute of Technology, Vadgaon Shinde Road, Lohgaon, Pune - 411047, Maharashtra, India Pune -----

5) Prof. Archana S. Banait

Address of Applicant : Department of Computer Engineering, MET's Institute of Engineering, Bhujbal Knowledge city, Nashik - 422207, Maharashtra, India Nashik -----

(57) Abstract :

In the last few years, several countries have accomplished their determined renewable energy targets to achieve their future energy requirements with the foremost aim to encourage sustainable growth with reduced emissions, mainly through the implementation of wind and solar energy. In the present study, we propose and compare five optimized robust regression machine learning methods, namely, random forest, gradient boosting machine (GBM), k-nearest neighbor (kNN), decision-tree, and extra tree regression, which are applied to improve the forecasting accuracy of short-term wind energy generation in the wind farms, on the basis of a historic data of the wind speed and direction. Polar diagrams are plotted and the impacts of input variables such as the wind speed and direction on the wind energy generation are examined. Scatter curves depicting relationships between the wind speed and the produced turbine power are plotted for all of the methods and the predicted average wind power is compared with the real average power from the turbine with the help of the plotted error curves. The results demonstrate the superior forecasting performance of the algorithm incorporating gradient boosting machine regression.

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

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Patent Search

Invention Title	AN ARTIFICIAL INTELLIGENCE BASED FIRE FIGHTING ROBOT
Publication Number	09/2024
Publication Date	01/03/2024
Publication Type	INA
Application Number	202221049276
Application Filing Date	29/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G08B0017000000, A61K0048000000, C09D0007400000, G08B0025100000, G08B0007060000

Inventor

Name	Address	Country
MOHITE, Utkarsha Laxman	Shyam Villa Apartment, Flat No.9, Konark Nagar, Adgaon, Nashik, Maharashtra, India - 422003	India
KADAM, Deepak Prakash	Flat No.6, TulshiKrupa Apartment, Behind BMS Super market, Kalangar, Nashikroad, Nashik, Maharashtra, India - 422101	India
GANGURDE, Mayur Anil	N-53 SF 5/5/6, Uttam Nagar, Cidco, Nashik, Maharashtra, India - 422009	India
GAIKWAD, Sakshi Sukdev	At post - jivhale near Ozar, Tal - Niphad, Nashik, Maharashtra, India - 422302	India
BIDAVE, Vaishnavi Bhausaheb	185, Near Vithal Mandir, Sawargaon, Post. Ranwad, Niphad, Nashik, Maharashtra, India	India
DESHMUKH, Abhishek Sharad	Plot no 2/A, Shashti Nagar , near Ramanand Nagar ,Jalgaon, Maharashtra, India - 425001	India
PATIL, Yashashree Purushottam	41, Jawahar Nagar, Sakri road Dhule, Maharashtra, India - 424001	India
KHAIRNAR, Vaibhavi Bapu	02, Near Renuka Mata Mandir, Manmad Road, Nimbayati, Tal -Malegaon, Nashik, Maharashtra, India - 423212	India
MAHAJAN, Pranjal Anil	Keshavkunj Row House No. 1, Keru Patil Nagar, Jail road, Nashik Road, Nashik, Maharashtra, India - 422201	India
KHAIRE, Rushikesh Bhausaheb	54, Near New English Medium School, At Mesakhedekh, Post. Shingve, Tal. Chandvad, Nashik, Maharashtra, India -423104	India

Applicant

Name	Address	Country	Nati
MET's Institute of Engineering	Bhujbal Knowledge City, Adgaon Nashik, Maharashtra, India - 422003	India	Indi

Abstract:

In today's modern era, by doing industrial survey it is observed that, now a days if any fire incident happens in building, power plant, etc, the time consumption of hui is high. So, there may be a possibility of heavy damage to human beings. A fire fighters work entails detecting and extinguishing fire. In this rapidly involving technolo word is gradually moving toward automated systems. Fire fighters on other hand, are often in danger of losing their lives. The majority of the death were caused by tc found in the firefighting environment. As a result, in order to resolve these issues, our system was developed. The elimination of fire before it spreads aways will avoi catastrophic effect.

Complete Specification

Description: TECHNICAL FIELD OF INVENTION

The present invention in general relates to an artificial intelligence, robotics and IOT based automobile industry. More particularly relates to an artificial intelligence fire fighting robot.

BACKGROUND OF THE INVENTION

Nowadays, fire accident keeps happening frequently caused danger to the human life and property, as well as it also causes difficulties to fire fighters.

To overcome these facts, here it comes firefighting robot which will ultimately protect human lives, property and surrounding from without these fire accidents with actual involvement of humans

There has been technological advancement since few decades. sometimes worse situation arises when human have to face casualties. One of these common situations arises due to fire in the industry.

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 27/07/2021

(21) Application No. 202121033752 A

(43) Publication Date : 20/08/2021

(54) Title of the invention : I-HEALTH-CARE: TECHNOLOGIES TOWARDS 5G NETWORK FOR INTELLIGENT HEALTH-CARE USING IOT NOTIFICATION WITH MACHINE LEARNING PROGRAMMING.

(51) International classification

:G16H0010600000,
G16H0050200000,
G06Q0010060000,
G06Q0050220000,
G16H0040200000

(31) Priority Document No

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(33) Name of priority country

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Filing Date

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Number

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Filing Date

:NA

(62) Divisional to Application Number

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Filing Date

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(71) Name of Applicant :

1) Dr. Madan Kharat
Address of Applicant : Professor and Head, MET's IOE,
Bhujbal Knowledge City, Nashik Maharashtra India

2) Mr. Umakant Dinkar Butkar

3) Dr. (Mrs.) Nuzhat Faiz Shaik

4) Dr. Atul Bhaskar Rao Borade

5) Mr. Sandeep Vijay Paranjape

6) Mr. Yashwant Sudhakar Ingle

7) Mr. Ajay Garg

8) Ms. Pritibala S. Ingle

9) Dr. Snehlata Dongre

10) Dr. Kapil K. Wankhade

11) Ms. Manisha Waghmare- Butkar

12) Prof. Sunil Sudan Khatal

(72) Name of Inventor :

1) Dr. Madan Kharat

2) Mr. Umakant Dinkar Butkar

3) Dr. (Mrs.) Nuzhat Faiz Shaik

4) Dr. Atul Bhaskar Rao Borade

5) Mr. Sandeep Vijay Paranjape

6) Mr. Yashwant Sudhakar Ingle

7) Mr. Ajay Garg

8) Ms. Pritibala S. Ingle

9) Dr. Snehlata Dongre

10) Dr. Kapil K. Wankhade

11) Ms. Manisha Waghmare- Butkar

12) Prof. Sunil Sudan Khatal

(57) Abstract :

ABSTRACT [658] Our Invention Intelligent Health-Care: Technologies Towards 4G, 5G Network for Intelligent Health-Care Using IoT Notification with Deep Learning Programming is a Internet of Things and Deep Learning (ML) have wide applicability in many aspects of life, health care is one of them. With the rapid development and improvement of the internet, the conventional strategies for patient services diminished and supplanted with electronic secure healthcare systems. [670] The use of IoT technology offers medical professionals and patients the most modern medical device defined environment. Implantable technologies lead to the natural substitution of the injured part of the human body. In this invention, an overview of IoT and Deep Learning based on secure healthcare care demonstrated in detail, the applications that use in health care by incorporating Deep Learning (DL) for the Internet of Things (IoT) listed with all issues and challenges while using this application or devices for health care and their important usage. [674] Also, algorithms used by Deep Learning in IoT for developing devices are indicated by showing previous work and classified each of them according to the used method. Challenges that secure healthcare IoT faces including security, privacy, wear ability, and low-power operation are presented, and recommendations are made for future research directions. a substantial quantity of this analysis appearance at observance patients with specific conditions, like sickness or ParkinsonTMs disease. additional analysis appearance to serve specific functions, like aiding rehabilitation through constant observance of a patientTMs progress. [676] Emergency secure aid has additionally been known as an opportunity by connected works however has not nevertheless been wide researched. many connected works have antecedently surveyed specific areas and technologies associated with IoT secure aid.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421006660 A

(19) INDIA

(22) Date of filing of Application :01/02/2024

(43) Publication Date : 23/02/2024

(54) Title of the invention : ANALYSIS AND IMPLEMENTATION OF DATA SHARING AND PRIVACY PRESERVING TECHNIQUE IN A PRIVATE BLOCKCHAIN NETWORK

(51) International classification :H04L0009320000, G06F0021620000, H04L0009060000, H04L0009080000, H04L0009000000

(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
Filing Date :NA

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

(71)Name of Applicant :

1)Shinde Madhuri Vishwas

Address of Applicant :Flat no.9,Revati Bliss Apartment, Gangapurroad, Behind Zudio, Navashyaganpati Sector C, Nashik, Tal-Nashik, District- Nashik 422 101 Nashik -----

2)Dr. Shyamrao Vasanttrao Gumaste

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shinde Madhuri Vishwas

Address of Applicant :Flat no.9,Revati Bliss Apartment, Gangapurroad, Behind Zudio, Navashyaganpati Sector C, Nashik, Tal-Nashik, District- Nashik 422 101 Nashik -----

2)Dr. Shyamrao Vasanttrao Gumaste

Address of Applicant :MET's Institute Of Engineering,Adgaon ,Nashik, Tal- Nashik, District- Nashik 422 101 Nashik -----

(57) Abstract :

ABSTRACT Analysis and Implementation of Data Sharing and Privacy Preserving Technique in a Private Blockchain Network [600]
The Present invention Analysis and Implementation of Data Sharing and Privacy Preserving Technique in a Private Blockchain Network presents an in-depth exploration of privacy-preserving techniques within the context of a private blockchain network. In an era characterized by increasing concerns regarding data privacy and security, particularly in digital transactions and record-keeping, there is a growing need to establish robust mechanisms that safeguard sensitive information while ensuring the efficient sharing of data within closed blockchain ecosystems. This study delves into the analysis and practical implementation of methodologies that aim to address the balance between data privacy and the transparent, immutable nature of blockchain technology. Focusing specifically on private blockchain networks, which are typically accessible to authorized participants only, this research outlines and examines various privacy-preserving techniques, including zero-knowledge proofs, selective data disclosure, and encryption protocols. Furthermore, the implementation aspect of the study involves the development and deployment of a practical framework that integrates these privacy-preserving techniques into the fabric of a private blockchain network. By combining theoretical analyses with hands-on implementation, the study seeks to provide concrete insights into the operationalization of privacy-enhancing features within the blockchain context. The research outcomes are expected to contribute to the advancement of privacy-preserving capabilities in private blockchain networks, thereby bolstering their utility in applications where the confidentiality of shared data is paramount. Insights from this analysis and implementation study hold the potential to inform the development of more resilient and privacy-conscious blockchain-based systems, paving the way for enhanced trust and confidence in data sharing practices within closed blockchain environments.

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

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Design Application Details

Application Number: 361252-001
Cbr Number: 215157
Cbr Date: 25/03/2022 15:22:00
Applicant Name:
1. Kishor Narayan Tayade
2. Dr. M U Kharat
3. Sunil Ramchandra Gupta
4. Mr. Vijay Uttam Rathod

Design Application Status

Application Status: Application Under Process(wating for Technical Examination)

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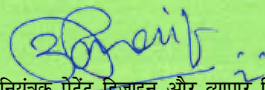
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तारीख / Date : 05/12/2023

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



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जारी करने की तिथि : 19/01/2024
Date of Issue :

*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.



ORIGINAL

क्रम सं/ Serial No. : 157213



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. : 385362-001

तारीख / Date : 30/04/2023

पारस्परिकता तारीख / Reciprocity Date* : -

देश / Country : भारत

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो WHEEL DISC से संबंधित है, का पंजीकरण, श्रेणी 12-08 में 1.Dr. Ajinkya S. Joshi 2. Dr. Ravindra K. Munje 3.Mr. Vardhan K. Joshi 4.Dr. Satish S. Banait 5.Prof. Archana S. Banait 6.Dr. Vilas K. Patil 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 12-08 in respect of the application of such design to WHEEL DISC in the name of 1.Dr. Ajinkya S. Joshi 2. Dr. Ravindra K. Munje 3.Mr. Vardhan K. Joshi 4.Dr. Satish S. Banait 5.Prof. Archana S. Banait 6.Dr. Vilas K. Patil.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रवधानों 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 : 16/02/2024
Date of Issue



उन्नात पी पांडेय

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 निर्बंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्याहियों 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.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441077983 A

(19) INDIA

(22) Date of filing of Application :15/10/2024

(43) Publication Date : 25/10/2024

(54) Title of the invention : AI BASED ADVANCED ROBOT FOR WELDING

(51) International classification :G06T7/00, G06V10/00, B25J11/00, B23K31/02
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Dhiraj Devrao Deshmukh, Associate Professor, Department of Mechanical Engineering, MET Institute of Engineering
Address of Applicant :MET, Bhujbal Knowledge City, Institute of Technology, BTech, Nashik-422003 -----

2)Dr. Sagarkumar J Aswar, Associate Professor, Department of Automation & Robotics, MET, Bhujbal Knowledge City, Institute of Technology

3)Dr. Sachin Prabhakar Kakde, Assistant Professor, Department of Mechanical Engineering, MET Institute of Engineering

4)Prof. Sachin Kamlakar Dahake, Assistant Professor, Department of Mechanical Engineering, MET Institute of Engineering

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dhiraj Devrao Deshmukh, Associate Professor, Department of Mechanical Engineering, MET Institute of Engineering

Address of Applicant :MET, Bhujbal Knowledge City, Institute of Technology, BTech, Nashik-422003 -----

2)Dr. Sagarkumar J Aswar, Associate Professor, Department of Automation & Robotics, MET, Bhujbal Knowledge City, Institute of Technology

Address of Applicant :MET, Bhujbal Knowledge City, Institute of Technology, BTech, Nashik-422003 -----

3)Dr. Sachin Prabhakar Kakde, Assistant Professor, Department of Mechanical Engineering, MET Institute of Engineering

Address of Applicant :MET, Bhujbal Knowledge City, Institute of Technology, BTech, Nashik-422003 -----

4)Prof. Sachin Kamlakar Dahake, Assistant Professor, Department of Mechanical Engineering, MET Institute of Engineering

Address of Applicant :MET, Bhujbal Knowledge City, Institute of Technology, BTech, Nashik-422003 -----

(57) Abstract :

AI at their early beginning, the two fields progressed widely apart in the following decades however, a revival of interest in the fertile domain of embodied machine intelligence, which is due in particular to the dissemination of more mature techniques from both areas and more accessible robot platforms with advanced sensory motor capabilities, and to a better understanding of the scientific challenges of the AI-Robotics intersection. It has been proved that the welding sequence has significant effects on deformation and lesser magnitude for residual stress. On the other hand, robot path planning is a crucial factor to efficiently weld large and complex structures. In this sense, Welding Sequence Optimization (WSO) is suitable for minimizing constraints in the design phase, reworks, quality cost and overall capital expenditure. Traditionally the welding sequence is selected by experience and sometimes a design of experiments is required. the welding operation on SS304&410L and testing the weld characteristics of SS304&410L. Austenitic stainless steel is widely used materials in the current industrial area including higher and lower temperature applications such as storage tanks, pressure cups, furnace equipment's etc. Using ratio of those materials are increasing constantly due to having superior corrosion resistance and mechanical properties. Every material possesses various weld characteristics depending upon its composition and various elements like selection of shielding gas and filler material is crucial parameter for the quality, the microstructure and properties of weldments. The weldment properties strongly depended on the shielding gas, since it dominates the mode of metal transfer.

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

PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
S.M. Road, Antop Hill, Mumbai-400 037
Te No. (091)(022) 24141026 FAX No. 02 24130387
E-mail : mumbai-patent@nic.in
Web Site : www.ipindia.gov.in



Docket Number:53623

Date/Time : 07/07/2023

Agent Number:

To,
AMIT SUBHASH PATIL and OTHERS
SARDAR PATEL INSTITUTE OF TECHNOLOGY, MUNSHI NAGAR, BHAVAN"S CAMPUS, ANDHERI (W), MUMBAI-400 058,
MAHARASHTRA, INDIA.

Sr No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	28010	ORDINARY APPLICATION	202321045685	IMPROVEMENT IN SURFACE QUALITY OF HOLE AND TOOL HEALTH OF HELICAL MILLING FOR TI6AL4V USING HYBRID T	1750
2		E-101/1897/2023-MUM	202321045685	Correspondence	0
3		E-2/1265/2023-MUM	202321045685	Form2	0
4	28010	E-12/2574/2023-MUM	202321045685	Form9	2750
5	28010	R20232026389	202321045685	Form18	4400
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FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patents rules, 2003 APPLICATION FOR GRANT OF PATENT [See section 7, 54 & 135 and rule 20 (1)]	(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of Fee Paid: CBR No: Signature:
---	--

1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	
--	--

2. TYPE OF APPLICATION [Please tick (√) at the appropriate category]					
Ordinary (√)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()

3. (3A) APPLICANT			
Name	Nationality	Country of Residence	Address
AMIT SUBHASH PATIL	Indian	India	SARDAR PATEL COLLEGE OF ENGINEERING, BHAVAN'S CAMPUS, MUNSHI NAGAR, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA, INDIA
VIVEK K. SUNNAPWAR	Indian	India	LOKMANYA TILAK COLLEGE OF ENGINEERING, VIKAS NAGAR, GYAN VIKAS ROAD, SECTOR 4, KOPAR KHAIRANE, NAVI MUMBAI, MAHARASHTRA - 400709 INDIA
KIRAN SURESH BHOLE	Indian	India	SARDAR PATEL COLLEGE OF ENGINEERING, BHAVAN'S CAMPUS, MUNSHI NAGAR, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA, INDIA.
AMOL L. MANGRULKAR	Indian	India	MCT's RAJIV GANDHI INSTITUTE OF TECHNOLOGY, BHARAT NAGAR

			,ANDHERI (WEST)MUMBAI, MAHARASHTRA - 400 053 INDIA
YOGESH SAMPAT MORE	Indian	India	MET's INSTITUTE OF ENGINEERING, BHUJBAL KNOWLEGEDE CITY , ADGAON , NASHIK , MAHARASHTRA , INDIA , PIN CODE 422003

3B. CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]

Natural Person (√)	Other than Natural Person		
Educational Institute ()	Small Entity ()	Start up ()	Others ()

4. INVENTOR (S) [Please tick (√) at the appropriate category]

Are all the inventor(s) same as the applicant(s) named above?	Yes (√)	NO ()
If "No", furnish the details of the inventor(s)		

Name	Nationality	Country of Residence	Address

5. TITLE OF THE INVENTION

HYBRID TRI-NANO FLOOD COOLANT FOR IMPROVING TOOL HEALTH AND SURFACE QUALITY IN HELICAL MILLING OF Ti6Al4V

6. AUTHORISED REGISTERED PATENT AGENT(S)

IN/PA No.	3637
Name	Saurabh Kumar Jain
Mobile No.	9806186045

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

**Saurabh Jain, Senan IP,
E-390, Delta-1, Greater Noida, UP 201310**

Telephone No. NA
Mobile No. 9673303636
E-mail: senanipindia@gmail.com
amitpatil36@hotmail.com

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN

CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
-NA-	-NA-	-NA-	-NA-	-NA-	-NA-

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)

International application number	International filing date
-NA-	-NA-

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION

Original (first) application No	Date of filing of original (first) application
-NA-	-NA-

11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT

Main application/patent No.	Date of filing of main application
-NA-	-NA-

12. DECLARATIONS:

(i) Declaration by inventor (s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above-named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: 07/07/2023

(b) Signature:

(c) Name:



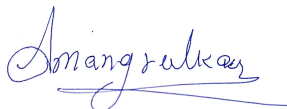
AMIT SUBHASH PATIL



VIVEK K. SUNNAPWAR



KIRAN SURESH BHOLE



AMOL L. MANGRULKAR



YOGESH SAMPAT MORE

(ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date

(b) Signature(s) -----NA-----

(c) Name(s) of the signatory

(iii) Declaration by the applicant:

I/We, the applicant hereby declares that:-

- I am /we are in possession of the above-mentioned invention
- The ~~provisional~~/complete specification relating to the invention is filed with this application.
- ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- There is no lawful ground of objection to the grant of the patent to me/us.
- I am/we are the true & first inventor(s).
- I am/we are the assignee or legal representative of true & first inventor(s).
- ~~The application or each of the applications, particulars of which are given in Paragraph 8, was the first application in convention country/countries in respect of my/our invention(s).~~
- ~~I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.~~
- ~~My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph 9.~~
- ~~The application is divided out of my /our application particulars of which is given in Paragraph 10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.~~
- The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph 11.

(d) Following are the attachments with the application:

(a) Form 2

Item	Detail	Fee	Remark
Complete specification	No. of pages:	1, 600	
No. of Claim(s)	No. of claims: No. of pages:		
Abstract	No. of pages:		
Drawings	No. of drawings: No. of Pages:		
Priority	No. of Priorities:		

~~In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.~~

~~(a) Provisional specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).~~

~~(b) Sequence listing in electronic form~~

~~(c) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).~~

~~(d) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.~~

~~(e) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.~~

~~(f) Statement and Undertaking on Form 3~~

~~(g) Declaration of Inventorship on Form 5~~

Total fee Rs. in Cash/ Banker's Cheque /Bank Draft bearing No.....
date.....on Bank

We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 7th day of July, 2023



Saurabh Kumar Jain
(IN/PA-3637)
Agent for Applicant

To,
The Controller of Patents
The Patent Office, At Delhi/Mumbai/Chennai/Kolkata, India.

FORM-26
PATENT ACT, 1970
(39 of 1970)
FORM OF AUTHORISATION OF PATENT AGENT
IN A MATTER OR PROCEEDING UNDER THE ACT
(See Sections 127 and 132; Rule 135)

We,

APPLICANTS (S)		
NAME	NATIONALITY	ADDRESS
AMIT SUBHASH PATIL	Indian	SARDAR PATEL COLLEGE OF ENGINEERING, BHAVAN'S CAMPUS, MUNSHI NAGAR, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA, INDIA
VIVEK K. SUNNAPWAR	Indian	LOKMANYA TILAK COLLEGE OF ENGINEERING, VIKAS NAGAR, GYAN VIKAS ROAD, SECTOR 4, KOPAR KHAIRANE, NAVI MUMBAI, MAHARASHTRA - 400709 INDIA
KIRAN SURESH BHOLE	Indian	SARDAR PATEL COLLEGE OF ENGINEERING, BHAVAN'S CAMPUS, MUNSHI NAGAR, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA, INDIA.
AMOL L. MANGRULKAR	Indian	MCT's RAJIV GANDHI INSTITUTE OF TECHNOLOGY, BHARAT NAGAR ,ANDHERI (WEST)MUMBAI, MAHARASHTRA - 400 053 INDIA
YOGESH SAMPAT MORE	Indian	MET's INSTITUTE OF ENGINEERING, BHUJBAL KNOWLEGEDE CITY , ADGAON , NASHIK , MAHARASHTRA , INDIA , PIN CODE 422003

hereby authorize **SAURABH KUMAR JAIN, Registered Patent Agents (INPA-3637) and Monika Sharma (INPA-4157) of Senan IP | Patent and trademark Services, E-390, Delta-1, Greater Noida, UP, 201310**, to act on our behalf in connection with filing of patent application, and filing patent applications for other inventions from time to time, to represent us and sign all forms and documents on our behalf and to do all acts to be performed by an agent under the provisions of the Indian Patents Act, 1970 and also to appoint substitute(s) as may be necessary or expedient.

We, hereby revoke all previous authorizations, if any, in respect of same matter or proceeding.

We, hereby assent to the action already taken by the said person in the above matter.

Name: Saurabh Kumar Jain

Address: Senan IP | Patent and trademark Services,
E-390, Delta-1, Greater Noida, U.P., 201310 India

Email: Saurabh@senanip.com

Ph Number: +91-7303346331

Date: 18/02/2025



AMIT SUBHASH PATIL



VIVEK K. SUNNAPWAR



KIRAN SURESH BHOLE



AMOL L. MANGRULKAR



YOGESH SAMPAT MORE

(Applicant's Signature)

To
The Controller of Patents,
The Patent Office
at DELHI / MUMBAI / CHENNAI / KOLKATA

