



SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE
(Autonomous)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai)

Accredited by NAAC with 'A' Grade | NBA (CIVIL, CSE, EEE, MECH)

Gobichettipalayam – 638 455, Erode District, Tamilnadu

Website: www.svhec.com

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FACULTY PUBLICATION DETAILS

S.No	Academic Year	International Journal	International Conference	National Conference	Patent	Book Publication	Total
1	2024-2025	3	1		6	2	12
2	2023-2024	9	9	10	3	5	36
Sub Total		12	10	10	9	7	48



SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Research Publications

SVHEC/RD/001
Ver(0.0)

Number of research papers per teachers in the Journals notified on UGC website							
Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number	
						Link to website of the Journal	Link to article/paper/ abstract of the article
An Enhanced LPRAFF with Tri-State Inverter Embedded Non-Clock Gating via the CT-GWO Algorithm	Dr.R.Senthilkumar	Computer Science and Engineering	IETE Journal of Research	Sep-24	ISSN:0377-2063	https://www.tandfonline.com	https://www.tandfonline.com/doi/full/10.1080/03772063.2024.2403697?af=R
Anomaly based Intrusion Detection System using Hybrid Machine Learning Approach in IoT Environment	Dr.R.senthilkumar	Computer Science and Engineering	Journal of Electrical Systems	Jun-24	ISSN:1584-1590	https://journal.esrgroup.org/jes	https://journal.esrgroups.org/jes/article/view/5670/4045
Resolvable Artificial Intelligence Method in Smart Healthcare	Dr.R.senthilkumar	Computer Science and Engineering	Journal of Electrical Systems	Jun-24	ISSN:1584-1590	https://journal.esrgroup.org/jes	https://journal.esrgroups.org/jes/article/view/4666/3463
Auto-Metric Graph Nueral Network for Paddy Leaf Disease Classification	Dr.T.SenthilPrakash	Computer Science and Engineering	Taylor & Francis	Jan-24	ISSN :1477-2906 ISSN :323-5408.	https://www.tandfonline.com	https://www.tandfonline.com/doi/abs/10.1080/03235408.2023.2289219
Enhanced Elman Spike Neural Optimized eith Flamingo Serch Optimization Algorithm Espoused Lung Cancer Classification From CT Image	Dr.T.Senthil Prakash	Computer Science and Engineering	Biomedical Signal Processing and Control	Apr-23	ISSN: 1746-8108	https://www.sciencedirect.com	https://www.sciencedirect.com/science/article/abs/pii/S1746809423003816
Optimizing Pre-Trained Models of Deep Learning for Identification of Plant Disease	Dr.R.Senthilkumar	Computer Science and Engineering	International Journal on Recent and Innovation Trends in Computing and Communication	Aug-23	ISSN: 2321-8169	https://ijritcc.org	https://ijritcc.org/index.php/ijritcc/article/view/7647
A Calssified Sentiment of E-Commerce Analysis by Mining Dependency in Product Features and Ideas in Social Network	Dr.R.Senthilkumar K.Indhumathi	Computer Science and Engineering	Tec Empresarial	Sep-23	ISSN: 1659-3359	https://revistastecac.cr	https://revistastecac.cr/index.php/TEC/article/view/388
An Analysis of Impression of Data Science with Trends	Dr.R.Senthilkumar P.M.Manochitra	Computer Science and Engineering	Tec Empresarial	Sep-23	ISSN: 1659-3359	https://revistastecac.cr	https://revistastecac.cr/index.php/TEC/article/view/391

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number	
						Link to website of the Journal	Link to article/paper/ abstract of the article
Investigating Strategies and Tools for Optimizing Cloud Costs, Monitoring Resource Usage, and Predicting Future Expenses	Dr.R.Senthilkumar	Computer Science and Engineering	Samdarshi	Sep-23	ISSN: 2581-3986	http://punjabiacademydelhi.com	http://punjabiacademydelhi.com/publication/admin/uploads/150%2089a5969153104c17ac10b8ef2df3a190.pdf
Municipal Solid Waste Prediction using Tree Hierarchical Deep Convolutional Neural Network Optimized with Balancing Composite Motion Optimization Algorithm	Dr.T.Senthil Prakash	Computer Science and Engineering	Journal of Experimental & Theoretical Artificial Intelligence	Jul-23	ISSN: 0952-813X	http://punjabiacademydelhi.com	https://www.tandfonline.com/doi/abs/10.1080/0952813X.2023.2243277
Deep convolutional spiking neural network fostered automatic detection and classification of breast cancer from mammography images	Dr.T.Senthilprakash	Computer Science and Engineering	Research on Biomedical Engineering	Oct-23	ISSN 2446-4740; ISSN 2446-4732	https://link.springer.com	https://link.springer.com/article/10.1007/s42600-023-00306-7
Deep Learning -Based Detection of Cardiovascular Defect patients	Dr.R.Senthilkumar	Computer Science and Engineering	International Journal on Recent and Innovation Trends in Computing and Communication	Sep-23	ISSN: 2321-8169	https://ijritcc.org	https://ijritcc.org/index.php/ijritcc/article/view/8296



SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Conference and Book Publications

SVHEC/RD/001
Ver(0.0)

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Dr.T.Senthilprakash S.Mahalakshmi	Intelligent Data Analysis				International	Jan-24	9789360101053	Prime International Publication
2	Dr.T.Senthilprakash	Introduction to Artificial Neural Networks				International	Jan-24	9789360109967	Prime International Publication
3	Dr.R.Senthilkumar	Futuristics Trends in Computing Technology and data Science				International	Mar-24	978-93-6252-246-7	IIP Series
4	Dr.R.Senthilkumar	Artificial Intelligence and machine Learning-rinciples and Applications				International	May-24	9788197407529	San International Publishers
5	Dr.R.Senthilkumar K.Indhumathi	Data Science				International	May-24	9788197342899	San International Publishers
6	Dr.R.Senthilkumar	Cross-Industry AI Applications	Unlocking and Maximising the Multifaceted Potential of Machine Learning Techniques in Enhancing Healthcare Delivery			International	Jun-24	9798369359518	IGI Global
7	Dr.R.Senthilkumar P. M. Manochitra	Cross-Industry AI Applications	Implementing innovative strategies for advancing healthcare outcomes by leveraging machine learning technologies and data-driven approaches			International	Jun-24	9798369359518	IGI Global
8	Dr.R.Senthilkumar		An Efficient Investigation of Cloud Computing Security with Machine Learning Algorithm	2024 International Conference on Inventive Computation Technologies (ICICT)	International Conference on Inventive Computation Technologies (ICICT)	International	Apr-24	979-83-5035-928-2	IEEEExplore
9	Dr.R.Senthilkumar		Intrusion Detection for Cyber-Physical Systems and IoT Devices using Hybrid Deep Learning Algorithm	2024 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC),	International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	International	Sep-24	979-83-5034-147-8	IEEEExplore
10	S.Kokila		Real time Vehicle Detection from captured image	International Conference on Recent Advancements in Management and Engineering Research	International Conference on Recent Advancements in Management and Engineering Research	International	Mar-24	978-93-340-1333-7	Dhanalakshmi Srinivasan College of Engineering and Technology
11	S.Kokila		Design and develops an Internet of a secure and Efficient healthcare system using Blockchain	Intelligent computing & Information Technology (ICT-24)	International Conference on Intelligent computing & Information Technology	International	Apr-24		Erode Sengunthar Engineering College
12	P.M.Manochitra		Enhanced Network Security :An Imbalanced Traffic Intrusion Detection Approach with Machine Learning and Deep Learning	Intelligent computing & Information Technology (ICT-24)	International Conference on Intelligent computing & Information Technology	International	Apr-24		Erode Sengunthar Engineering College
13	D.Deepana		AI Based Traffic Light Control and Ambulance detection	Intelligent computing & Information Technology (ICT-24)	Intelligent computing & Information Technology	International	Apr-24		Erode Sengunthar Engineering College

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
14	K.Indhumathi		Stress Detection Using Eeg Signal in Machine Learning		International conference in Intelligent Computing & Information (ICIT 24)	International	Apr-24	ISSN: 2582-7219	International Journal of Multidisciplinary Research in Science, Engineering and Technology
15	S.Mahalakshmi		Automated Answer Evaluation Based on Deep Learning		International conference in Intelligent Computing & Information (ICIT 24)	International	Apr-24	ISSN: 2582-7219	International Journal of Multidisciplinary Research in Science, Engineering and Technology
16	P.Logeswari		Malware Attack Identification and System Protection		International conference in Intelligent Computing & Information (ICIT 24)	International	Apr-24	ISSN: 2582-7219	International Journal of Multidisciplinary Research in Science, Engineering and Technology
17	Dr.R.Senthilkumar		Innovative Blood Group Prediction Using Fingerprint Patterns		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	International	Apr-24	ISSN: 2582-7219	International Journal of Multidisciplinary Research in Science, Engineering and Technology
18	Dr.T.Senthilprakash		Deciphering the Ancient Script: A Novel Approach to Hieroglyphic Language Translation		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0181	International Journal of Engineering Research & Technology (IJERT)
19	Dr.R.Senthilkumar		Streamlining-Learning Through Bio-Inspired Brain-Computer Interface Chatbot		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0181	International Journal of Engineering Research & Technology (IJERT)
20	K.Indhumathi		Face Biometric Authentication System for ATM Using Deep Learning		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0181	International Journal of Engineering Research & Technology (IJERT)
21	P. M. Manochitra		Face Smart Home Door Lock System Using AI & Deep Learning		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0181	International Journal of Engineering Research & Technology (IJERT)
22	D.Deepana		Detection of Cyberbullying Using Machine Learning and Deep Learning		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0182	International Journal of Engineering Research & Technology (IJERT)
23	S.Mahalakshmi		Abnormal and Deviant Behavior Identification Via Surveillance Systems		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0182	International Journal of Engineering Research & Technology (IJERT)
24	R.Balusamy		PC Automation Using Hand Gestures		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0182	International Journal of Engineering Research & Technology (IJERT)
25	R.Balusamy		Exam Vision : An Intelligent Face Detection System for Automated Candidate Identification		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0182	International Journal of Engineering Research & Technology (IJERT)

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
26	P.Logeswari		Fake News Stance Detection Based On Deep LearninG		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0182	International Journal of Engineering Research & Technology (IJERT)
27	S.Kokila		Design a secure and and Efficient healthcare system using Blockchain		National Level Conference On Sustainable Approaches In Engineering, Technology And Management- Saetm-24	National	Apr-24	ISSN 2278-0182	International Journal of Engineering Research & Technology (IJERT)



ORIGINAL

क्रम सं/ Serial No.: 149270



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.

397577-001

तारीख / Date

14/10/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AI BASED SMART WALKING STICK FOR VISUALLY IMPAIRED** से संबंधित है, का पंजीकरण, श्रेणी 03-03 में 1.Dr.R.Senthil Kumar 2. Dr. S.Prakasam 3.Mrs. S.Mahalakshmi 4.P Sudarsan 5.Ms.M.Sunandini 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 03-03 in respect of the application of such design to **AI BASED SMART WALKING STICK FOR VISUALLY IMPAIRED** in the name of 1.Dr.R.Senthil Kumar 2. Dr. S.Prakasam 3.Mrs. S.Mahalakshmi 4.P Sudarsan 5.Ms.M.Sunandini.

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.

जारी करने की तिथि : 30/11/2023
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.



ORIGINAL

क्रम सं/ Serial No.: 182979



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.

422512-001

तारीख / Date

06/07/2024

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **ARTIFICIAL INTELLIGENCE BASED AIR PURIFYING DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 23-04 में 1.Dr. T. Senthil Prakash 2. Mrs. S. Mahalakshmi 3. Mrs. P. Logeshwari 4. Mr. Syed Mazharuddin 5. Mr. Christian Rafael Quevedo Lezama 6. Mr. Shiburaj Pappu 7. Dr. Prashant Sunagar 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 23-04 in respect of the application of such design to **ARTIFICIAL INTELLIGENCE BASED AIR PURIFYING DEVICE** in the name of 1.Dr. T. Senthil Prakash 2. Mrs. S. Mahalakshmi 3. Mrs. P. Logeshwari 4. Mr. Syed Mazharuddin 5. Mr. Christian Rafael Quevedo Lezama 6. Mr. Shiburaj Pappu 7. Dr. Prashant Sunagar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन 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

17/10/2024



डिजाइन की पंजीकरण

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.



ORIGINAL

क्रम सं/ Serial No.: 1791110



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.

424233-001

तारीख / Date

23/07/2024

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AI-ASSISTED DEVICE FOR FINANCIAL MANAGEMENT** से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Dr. T. Senthil Prakash 2. Dr. Binoy Mathew 3.Mr. R. Balusamy 4.Mrs. S. Kokila 5.Ms. Jasdeep Kaur 6.Dr. M.S. Vasu 7.Dr. Prashant Sunagar 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 14-02 in respect of the application of such design to **AI-ASSISTED DEVICE FOR FINANCIAL MANAGEMENT** in the name of 1.Dr. T. Senthil Prakash 2. Dr. Binoy Mathew 3.Mr. R. Balusamy 4.Mrs. S. Kokila 5.Ms. Jasdeep Kaur 6.Dr. M.S. Vasu 7.Dr. Prashant Sunagar.

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.

जारी करने की तिथि :

Date of Issue

29/08/2024



कुलत की संस्थिति

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.



ORIGINAL

क्रम सं/ Serial No.: 142559



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.

388995-001

तारीख / Date

24/06/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SMART TABLET VENDING MACHINE** से संबंधित है, का पंजीकरण, श्रेणी 20-01 में 1.Dr. R. Senthil Kumar 2. Dr. S. Gokulraj 3.Dr. S. Kayalvili 4.Mr. J. Senthil 5.Ms. S. Ayisha 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 20-01 in respect of the application of such design to **SMART TABLET VENDING MACHINE** in the name of 1.Dr. R. Senthil Kumar 2. Dr. S. Gokulraj 3.Dr. S. Kayalvili 4.Mr. J. Senthil 5.Ms. S. Ayisha.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन 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 : 23/08/2023
Date of Issue



महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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*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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(54) Title of the invention : AUTOMATIC ROBOT WITH REMOTE CONTROLLED SOLAR POWERS VERSATILE PESTICIDE SPINKLER IN AGRICULTURE

<p>(51) International classification :A01M0007000000, B64D0001180000, A01N0025040000, G08C0017020000, A01G0013100000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>		<p>(71)Name of Applicant : 1)Dr. S.PRAKASAM Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU, PIN CODE:638455 Gobi ----- 2)Dr.R.SENTHIL KUMAR 3)Mr. J.SENTHIL 4)Mrs.P.M.MANOCHITRA 5)Mr. K.NARAYANAN Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)Dr. S.PRAKASAM Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU, PIN CODE:638455 Gobi ----- 2)Dr.R.SENTHIL KUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU, PIN CODE:638455 Gobi ----- 3)Mr. J.SENTHIL Address of Applicant :ASSISTANT PROFESSOR, M.Tech COMPUTER SCIENCE AND ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE, TAMIL NADU, PIN CODE 641008 Coimbatore ----- 4)Mrs.P.M.MANOCHITRA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU, PIN CODE:638455 Gobi ----- 5)Mr. K.NARAYANAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, GOVERNMENT COLLEGE OF ENGINEERING, ERODE, TAMIL NADU, PIN CODE : 638316 Erode -----</p>
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(57) Abstract :
ABSTRACT AUTOMATIC ROBOT WITH REMOTE CONTROLLED SOLAR POWERS VERSATILE PESTICIDE SPINKLER IN AGRICULTURE Automatic robots with remote controlled solar power versatile pesticide sprinklers are innovative and high-tech machines designed for efficient and eco-friendly pesticide application in agriculture. These robots are equipped with solar panels and controlled remotely, making them highly flexible and adaptable for use in a variety of agricultural settings. The main purpose of these robots is to efficiently apply pesticides in agricultural fields without the need for manual labor or the use of fossil fuels, reducing labor costs and environmental pollution. These robots are equipped with a tank for containing the pesticide, which is connected to a pump that distributes the pesticide through a sprinkler system. One of the key features of these robots is their remote control capability. This allows the user to operate the robot from a distance using a controller or a smartphone application. This eliminates the need for a human operator to physically control the robot, making it easier and safer to use. The remote control also enables precise targeting of specific areas or crops, reducing pesticide wastage and increasing efficiency. The solar panels on these robots provide a renewable and sustainable source of power, making them highly cost-effective and reducing the reliance on fossil fuels. This also makes the robots more versatile, as they can be used in remote or off-grid areas where electricity supply may not be available. The pesticide sprinklers attached to these robots are designed to cover a large area in a short span of time. This not only saves time but also ensures even distribution of the pesticide, resulting in effective pest control. The robots are also equipped with sensors that can detect the presence of pests and adjust the amount of pesticide sprayed accordingly, reducing overuse and minimizing potential harm to the environment. In addition, these robots can be equipped with advanced technologies such as GPS and AI, allowing them to navigate and work autonomously in the field. This reduces the need for human supervision and further increases efficiency. Overall, automatic robots with remote controlled solar power versatile pesticide sprinklers provide a sustainable and efficient solution for pesticide application in agriculture. They reduce labor costs, environmental pollution, and increase the accuracy and effectiveness of pest control, making them a valuable tool for modern agriculture.

No. of Pages : 12 No. of Claims : 7



ORIGINAL

क्रम सं/ Serial No.: 184421



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.

430224-001

तारीख / Date

11/09/2024

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AI-ASSISTED LOGISTIC FACILITY MANAGEMENT DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Dr. T. Senthil Prakash 2. Mrs. T. Deepigaa 3.Mr. T. Arunprakash 4.Dr. Prakash Agrawal 5.Dr. Rakhi Mohan 6.Dr. S. Govardhan 7.Dr. Prashant Sunagar 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 14-02 in respect of the application of such design to **AI-ASSISTED LOGISTIC FACILITY MANAGEMENT DEVICE** in the name of 1.Dr. T. Senthil Prakash 2. Mrs. T. Deepigaa 3.Mr. T. Arunprakash 4.Dr. Prakash Agrawal 5.Dr. Rakhi Mohan 6.Dr. S. Govardhan 7.Dr. Prashant Sunagar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन 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

11/11/2024



डिजाइन की पंजीकरण

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Certificate of Registration for a UK Design

Design number: 6385456

Grant date: 12 September 2024

Registration date: 19 August 2024

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Mr. Rahul Vadisetty, Mrs. Sejal Mishra, Mr. Christian Rafael Quevedo Lezama,

Dr. Senthil Prakash Thanikachalam, Mr. Harsh Jindal, Dr. Bramah Hazela, Dr.

Shikha Singh

in respect of the application of such design to:

Encryption device for data security

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING
EQUIPMENT

Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL
APPARATUS AND DEVICES

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Certificate of Registration for a UK Design

Design number: 6398335

Grant date: 05 November 2024

Registration date: 16 October 2024

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HEPSIBA LAKSHMANA RAO, Dr. SUBBAIAH BORUGADDA, Dr. MOHAMMED

QUADIR MOHIUDDIN, Dr. KANNAN VELLINGIRI, Dr. NAGARATHINAM

KANDASAMY, Dr. SHREESHA KALKOOR MUDRADI , Dr. BOJJA CHARWAK,

Dr. SENTHIL KUMAR

in respect of the application of such design to:

Motivation Device for Increased Employee Productivity

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING
EQUIPMENT

Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL
APPARATUS AND DEVICES

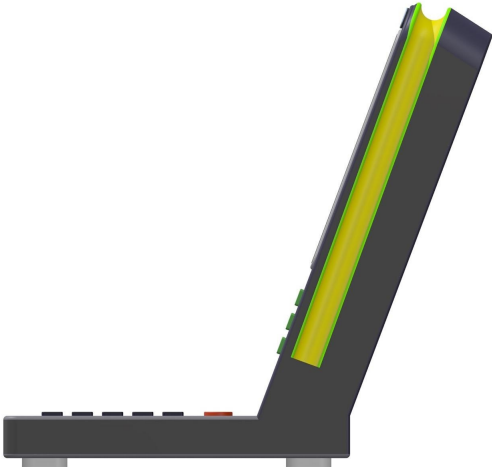
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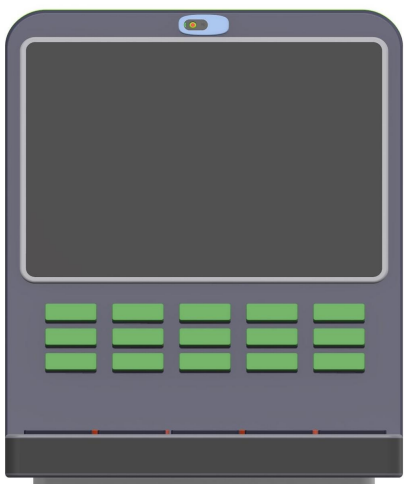
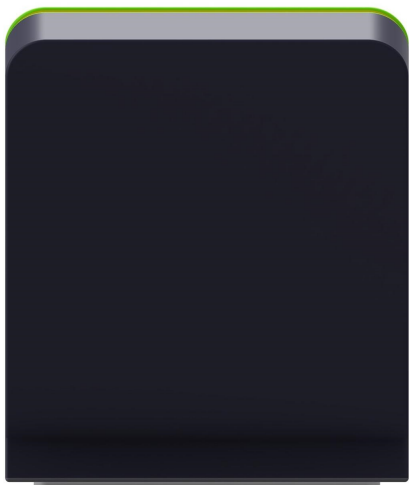
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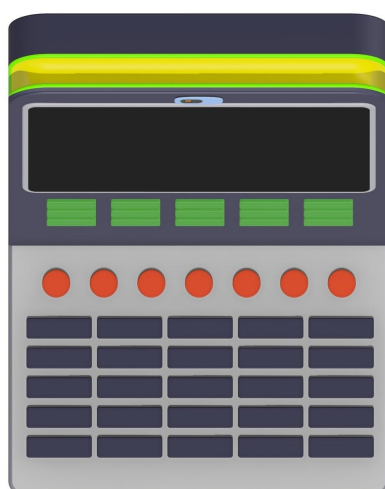
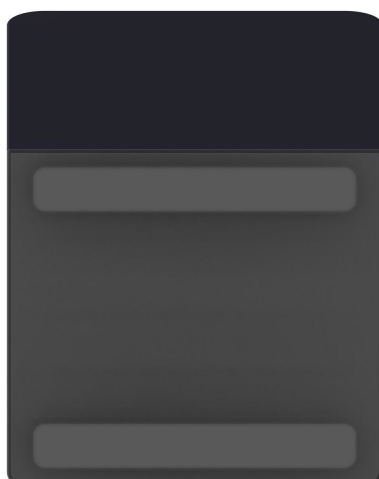
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QUADIR MOHIUDDIN, Dr. KANNAN VELLINGIRI, Dr. NAGARATHINAM

KANDASAMY, Dr. SHREESHA KALKOOR MUDRADI , Dr. BOJJA CHARWAK,

Dr. SENTHIL KUMAR

in respect of the application of such design to:

Motivation Device for Increased Employee Productivity

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING
EQUIPMENT

Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL
APPARATUS AND DEVICES

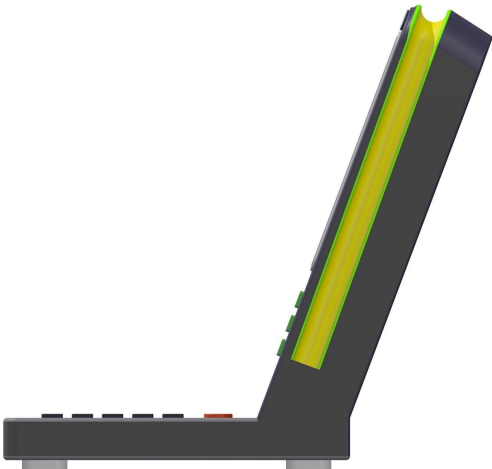
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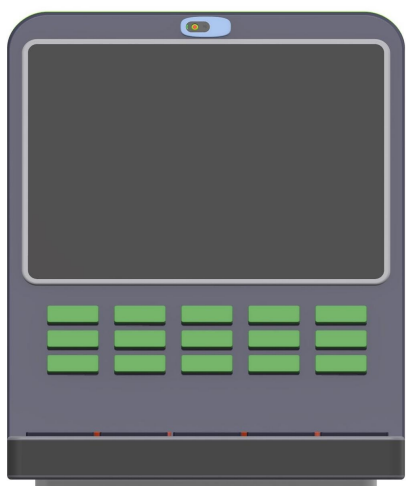
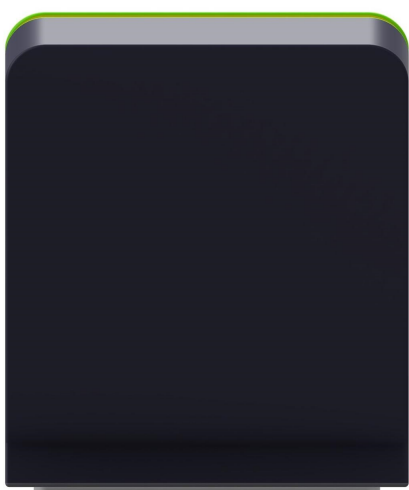
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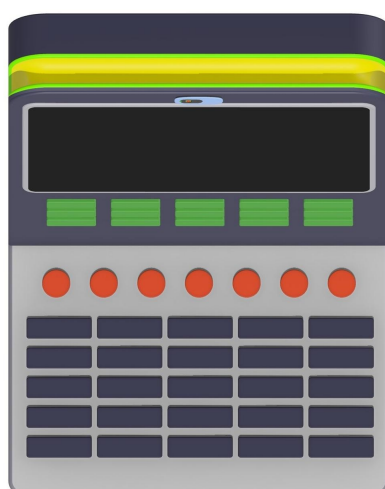
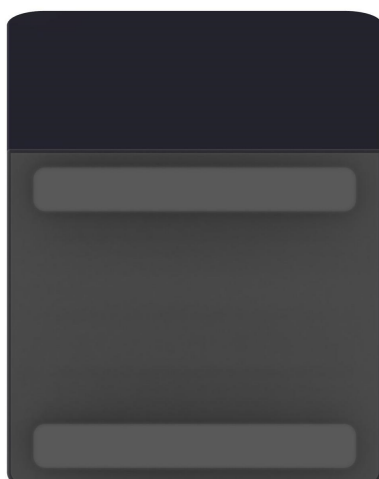
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