

पेटेंट कार्यालय
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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541114040 A

(19) INDIA

(22) Date of filing of Application :20/11/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : INTEGRATED REAL-TIME SYSTEM FOR EMERGENCY ALERTING, TRAFFIC MANAGEMENT, AND AMBULANCE ROUTING

(51) International classification	:G02B 7/28, G08G 1/087, G01R 33/32, G08G 1/07, G08G 1/01 :NA :NA :NA : :NA :NA :NA :NA :NA :NA	(71) Name of Applicant : 1)SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY Address of Applicant :Vidya Nagar, Karukutty, Ernakulam, Cochin – 683576, Kerala, India (72) Name of Inventor : 1)Mr. ANOOB JOSE 2)Mr. DEEPAK XAVIER 3)Mr. NIKHIL ASOK N 4)Mr. DINIL BABU C
(31) Priority Document No		
(32) Priority Date		
(33) Name of priority country		
(86) International Application No		
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number		
Filing Date	:NA	
(62) Divisional to Application Number		
Filing Date	:NA	

(57) Abstract :

The invention presents an Intelligent Automated System designed to enhance emergency response efficiency and streamline traffic movement during road accidents or critical situations. Using real-time inputs from interconnected sensors, cameras, and traffic signals, the system automatically detects incidents, generates emergency alerts, and adjusts traffic signal timings to prioritize ambulance movement. By integrating seamlessly with existing smart city infrastructure, it creates uninterrupted green corridors that enable emergency vehicles to reach hospitals or accident locations faster. The system also automates the notification of police, ambulance services, and other emergency responders, reducing reliance on manual intervention and improving overall coordination. Through intelligent routing and proactive traffic control, the invention not only boosts road safety but also significantly reduces response delays, ultimately saving lives by ensuring faster medical assistance and efficient handling of emergency scenarios.

No. of Pages : 15 No. of Claims : 8



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

454756-001

08/04/2025

डिजाइन सं. / Design No.

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-02 in respect of the application of such design to **MEDICAL TROLLEY INTEGRATED WITH WASTE DISPOSAL SYSTEM (SET)** in the name of 1. SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY 2. Jesna Jose, 3. Malavika Sureshbabu, 4. Mariya Santhosh, 5. Riya Mary Prince, 6. Lekshmi Nair M, 7. Vinoj P G.,

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

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

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जारी करने की तिथि: 29/07/2025 | नंबर वाले वार्तालाई अनुमति दिया गया है।

Date of Issue



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उमा एम पैडो

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न

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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.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541097580 A

(19) INDIA

(22) Date of filing of Application :09/10/2025

(43) Publication Date : 14/11/2025

(54) Title of the invention : MULTI TUBE FILTER

(51) International classification	:C02F0001480000, F28D0007160000, C02F0005020000, C02F0103060000, B01D0065080000	(71) Name of Applicant : 1)SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY Address of Applicant :Vidya Nagar, Palissery, Karukutty, Ernakulam - 683576, Kerala, India Ernakulam Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. RATISH MENON
(33) Name of priority country	:NA	2)Ms. SRUTHY ROBERT
(86) International Application No	:	3)Dr. SUNNY GEORGE
Filing Date	:01/01/1900	4)Dr. LAL THOMPSON
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention titled “Multi-Tube Filter” provides a low-cost, modular, and efficient filtration device designed to mitigate scaling and clogging in irrigation systems that utilize hard groundwater, especially prevalent in regions such as Palakkad, Kerala. The device comprises a stainless-steel outer casing housing multiple narrow stainless-steel tubes arranged concentrically or in bundled form to maximize surface area. As groundwater flows through the tubes, calcium carbonate particles—formed due to aeration and pressure variation—adhere preferentially to the internal tube surfaces rather than accumulating in irrigation pipelines. This controlled fouling prevents scale formation downstream, maintaining flow efficiency and system longevity. The detachable and acid-cleanable design ensures easy maintenance, cost-effective operation, and long-term durability under compressor-driven high-pressure conditions. The invention provides a technically and economically viable solution to persistent scaling issues in agricultural irrigation systems, enabling improved water delivery performance for small and marginal farmers.

No. of Pages : 13 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541114041 A

(19) INDIA

(22) Date of filing of Application :20/11/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : PERFORMANCE ENHANCEMENT OF A FRESNEL-LENS-ASSISTED BOX-TYPE SOLAR COOKER WITH AUTOMATIC SOLAR TRACKING AND PHASE CHANGE THERMAL STORAGE

(51) International classification	:H02S 20/32, F04D 25/10, H01F 30/14, G11B 21/08, G01N 25/12	(71)Name of Applicant : 1)SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY Address of Applicant :Vidya Nagar, Karukutty, Ernakulam, Cochin – 683576, Kerala, India Cochin Kerala India (72)Name of Inventor : 1)Dr. GULSAVIN GURUPRASAD ENGOOR 2)Dr. S.R. AKHIL KRISHNAN 3)Dr. JAYADEVAN P.C 4)Mr. VIPIN RAJ PG
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	: :01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA	
(62) Divisional to Application Number Filing Date	:NA	

(57) Abstract :

A novel solar cooking system is developed to improve thermal energy capture and prolong cooking duration using advanced integrated technologies. This enhanced box-type solar cooker combines a Fresnel Lens Magnifier (FLMG), an automatic solar tracking unit, and a Phase Change Material (PCM)-based thermal storage system. The Fresnel lens is precisely aligned to concentrate incoming sunlight onto a black-coated absorber plate, significantly increasing heat intensity and accelerating temperature rise compared to traditional box cookers. A microcontroller-driven dual-axis tracking mechanism, utilizing Solar Position Algorithms, continuously adjusts the lens orientation to achieve maximum solar gain without manual intervention. The cooker incorporates suitable PCM materials, such as Erythritol or Stearic Acid blends, arranged around the absorber to store excess thermal energy during peak irradiance. As solar input declines, the PCM gradually releases its stored latent heat, maintaining stable cooking temperatures and enabling cooking beyond daylight hours. This integrated design greatly enhances efficiency, reliability, and sustainability across diverse environmental conditions.

No. of Pages : 17 No. of Claims : 8



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Serial No. : 204900



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ডিজাইন সং. / Design No.

454759-001

08/04/2025

दिजाइन अधिनियम 2000 तथा दिजाइन वियस 2001 के अध्याधीन पात्राधारों 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: 18/07/2025

10/07/2023 बॉलिंग संपदा कार्यालय, भारत सरकार, इंडियन पेटेंट एंड ट्रेड मार्क एफिस, गवर्नमेंट ऑफ इंडिया, नवाबगांधी रोड, नोर्थ बॉलिंग, लालबाजार, दिल्ली 110001, भारत
प्रतिक संपदा ट्रांसफर भारत सरकार बॉलिंग संपदा कार्यालय

દાનુકાયાલિપ, ભારતસરકાર, બાળશિક સ્પૃધનું કાળુલાયા. એઠા સર્કાર, બોલ્ટિક સપદા કાર્યાલય, ભારત સરકાર, બેંગલુરુ સ્પાન્સી દઢતર, ભારત

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। हिंजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निवधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपर्याग विधिक कार्यवाहियों अथवा देश में विस्तार के लिए किया जाएगा।

पंजाकरण प्राप्त करने के लिए नहा 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. भारतसरकार, व्यापारिक संस्थान का गोपनीयता का दसवारा विवरण। भारत सरकार, वैदिक संपदा का गोपनीयता, भारत

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