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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

24th MARCH, 2023

CONTENTS

<i>SUBJECT</i>		<i>PAGE NUMBER</i>
JURISDICTION	:	27831 – 27832
SPECIAL NOTICE	:	27833 – 27834
CORRIGENDUM (KOLKATA)	:	27835
EARLY PUBLICATION (DELHI)	:	27836 – 27870
EARLY PUBLICATION (MUMBAI)	:	27871 – 27939
EARLY PUBLICATION (CHENNAI)	:	27940 – 28205
EARLY PUBLICATION (KOLKATA)	:	28206 – 28255
PUBLICATION AFTER 18 MONTHS (DELHI)	:	28256 – 28370
PUBLICATION AFTER 18 MONTHS (MUMBAI)	:	28371 – 28469
PUBLICATION AFTER 18 MONTHS (CHENNAI)	:	28470 – 28623
PUBLICATION AFTER 18 MONTHS (KOLKATA)	:	28624 – 28630
WEEKLY ISSUED FER (DELHI)	:	28631 – 28648
WEEKLY ISSUED FER (MUMBAI)	:	28649 – 28659
WEEKLY ISSUED FER (CHENNAI)	:	28660 – 28675
WEEKLY ISSUED FER (KOLKATA)	:	28676 – 28678
PUBLICATION UNDER SECTION 57 AND UNDER RULE 81(3) (a) IN RESPECT OF AMENDMENT OF CLAIMS (KOLKATA)	:	28679 – 28680
PUBLICATION UNDER SECTION 57 AND UNDER RULE 81(3) (a) IN RESPECT OF AMENDMENT THE SEQUENCE LISTING OF COMPLETE SPECIFICATION (KOLKATA)	:	28681
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)	:	28682 – 28717
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)	:	28718 – 28737
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)	:	27738 – 28767
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)	:	28768 – 28778
INTRODUCTION TO DESIGN PUBLICATION	:	28779
DESIGN CORRIGENDUM	:	28780
COPYRIGHT PUBLICATION	:	28781
CANCELLATION PROCEEDINGS UNDER SECTION 19 OF THE DESIGNS ACT, 2000 & DESIGNS (DECISION) RULES, 2008	:	28782
REGISTRATION OF DESIGNS	:	28783 - 28992

**THE PATENT OFFICE
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• कार्यालयों के क्षेत्राधिकार के पते

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3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

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(54) Title of the invention : SOLAR POWERED ROBOTIC VEHICLE FOR HEAVY METAL IONS DETECTION IN WATER EMPLOYING MACHINE VISION

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(57) Abstract :

This invention is a solar powered robotic vehicle that identifies and maps heavy metal ions in agricultural soil employing a camera. The soil is first collected from the agricultural land using a cup and stirred periodically using a stirrer. The data from the stirred sample is collected employing camera along with a time stamp and sent to the server dedicated for this product via the Internet employing an IoT Module. The camera sensor first detects the type of the soil with the colour as primary parameter. The soil can be red soil, black soil or other such types. This soil type will be detected with the image data collected from the camera. Next the camera sensor identifies whether the soil has heavy metal ion content or not. If heavy metal ion content is found in the soil collected it maps the corresponding location along with the ion concentration data to a cloud server. The machine learning model is trained by providing various images of soil with heavy metal ion concentration. The entire robot can be made to traverse in any programmed route in a field to collect data from throughout. A trained Ensemble Machine Learning model for soil information inference from the data collected from sensor mentioned above is loaded at the centralized server. The data collected from different soils is first categorized and employed to train the ensemble machine learning model. Once the model is trained, it can operate as a reliable predictive model. A combination of Convolutional Neural Network, Support Vector Machine, Linear Regression and K Means is employed for the above said ensemble machine learning model.

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