



Godavari Shikshan Prasarak Mandals

B. Raghunath Arts, Commerce and Science College, Parbhani

Dhanlaxmi Nagar, Jintur Road, Parbhani, 431401, Maharashtra
Affiliated to S.R.T.M University, Nanded and Reaccredited by NAAC with 'B' grade
Website-www.brcpbn.in Email – brcpbn@gmail.com (Phone No. 02452-232374)
(College Code- 237)




Adv. Ashok Soni
(President)


Shri. O.J. Daga
(Secretary)

Dr. Vilas Y. Sonawane
(Principal)

PATENT RECEIVED BY DR. RAJESH DESHMUKH



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

ORIGINAL

मूल/No : 120278



डिजाइन सं. / Design No.	:	347650-001
तारीख / Date	:	09/08/2021
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

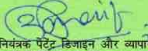
प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUTOMATED AGRICULTURAL SPRAYING ROBOT** से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Dr. Anamika 2. Dr Radhika Gautamkumar Deshmukh 3.Dr. Aaditya Khare 4.Dr.A.Mary Priya Dharsini 5.Dr. Rajesh S. Deshmukh 6.Gangaraju Subramanyam 7.Dr.Basanta Kumar Panigrahi 8.Chandana Subudhi 9.Sunita Panda 10.Dr. Arti Vaish 11.Prof.Ramesh Chandra Panda 12.Dr P Karthigeyan के नाम में उपयुक्त 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 15-03 in respect of the application of such design to **AUTOMATED AGRICULTURAL SPRAYING ROBOT** in the name of 1.Dr. Anamika 2. Dr Radhika Gautamkumar Deshmukh 3.Dr. Aaditya Khare 4.Dr.A.Mary Priya Dharsini 5.Dr. Rajesh S. Deshmukh 6.Gangaraju Subramanyam 7.Dr.Basanta Kumar Panigrahi 8.Chandana Subudhi 9.Sunita Panda 10.Dr. Arti Vaish 11.Prof.Ramesh Chandra Panda 12.Dr P Karthigeyan.

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.

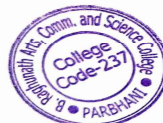
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निर्गमन की तारीख/Date of Issue : 16/12/2022



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Principal
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Automated Solar-Powered Weeding Robot

Prof. Ramesh Chandra Panda

Dean

Research & Development Cell

Synergy Institute of Engineering & Technology, Bhubaneswar, Odisha

Solar-Powered Weeding Robot is an automated arduino fitted robot weeder created with a broad sustainable vision, and guarantees that a staggering 20 times less herbicide on average would be required on a field managed by the robot. It used a simple design to create a bot that is lightweight, and as a result will not contribute to soil compaction as heavier industrial farming equipment can tend to do. Finally, the remote operation and configuration which can be done via the user's Smartphone ,as well as being easy to transport, make it a winner for many farmers. The components of a robot are the body/frame, control system, manipulators, and drivetrain.

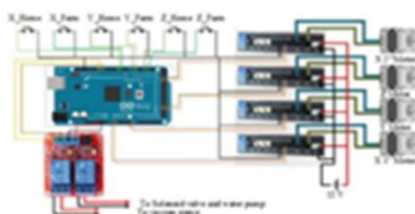


Fig. 1- Connection among various peripherals

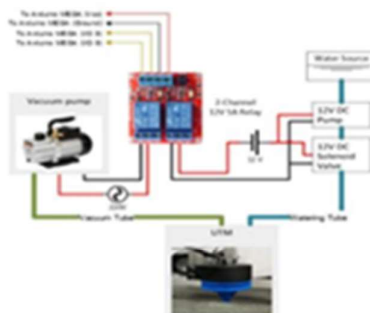


Fig. 2- Overall structure of tool control.



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