

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 46/2021
ISSUE NO. 46/2021

शुक्रवार
FRIDAY

दिनांक: 12/11/2021
DATE: 12/11/2021

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.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

12th NOVEMBER, 2021

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041019199 A

(19) INDIA

(22) Date of filing of Application :06/05/2020

(43) Publication Date : 12/11/2021

(54) Title of the invention : AGROSONIC: AN AUTONOMOUS MACHINE TO SPREAD FERTILIZERS AND PESTICIDES

(51) International classification	:C05G0003000000, A01C0021000000, A01M0007000000, A01C0023040000, G01N0033240000	(71)Name of Applicant : 1)R.V. College of Engineering Address of Applicant :R.V. College of Engineering Mysore Road, R. V. Vidyaniketan Post, Bangalore – 560059, Karnataka, India. Karnataka India
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(86) International Application No	:NA	3)Srijan Devnath
Filing Date	:NA	4)N M Nishant
(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 :

GROSONIC: AN AUTONOMOUS MACHINE TO SPREAD FERTILIZERS AND PESTICIDES ABSTRACT A agrosonic device mounted on a farm vehicle comprises: a control unit to control the overall functioning of the entire operation of the agrosonic device in order to release adequate amounts of chemicals into the soil; a ultrasonic sensor unit to navigate the farm which ensures smooth traversal of the agrosonic device, while avoiding small obstacles or uneven terrain; a LDR (Light Dependent Resistor) soil scanner unit to provide the agrosonic device with real time information about the status of the soil; a sensor based gate unit to periodically release fertilizers depending on data from the LDR soil scanner unit to regulate the flow of fertilizer/pesticides to the sprinkler without any loss; a fertilizer/pesticide unit includes chemicals that supply crops with essential nutrients for growth and to help replenish the soil nutrients that are evenly sprinkled on the crops or soil to obtain a good yield of crops; a sprinkler unit for the sprinkling of the adequate amount of fertilizer and pesticide evenly; a GPS unit to locate and map regions of fields, such as high weed, disease, and pest infections; and a power unit includes batteries to activate the entire agrosonic device ,wherein the agrosonic device is a mounted on a six wheel drive chassis used for fertilizer and pesticide sprinkling adequate amounts of chemicals depending on real time soil analysis.

No. of Pages : 9 No. of Claims : 4