

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 51/2023
ISSUE NO. 51/2023

शुक्रवार
FRIDAY

दिनांक: 22/12/2023
DATE: 22/12/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341077177 A

(19) INDIA

(22) Date of filing of Application :13/11/2023

(43) Publication Date : 22/12/2023

(54) Title of the invention : SYSTEM AND METHOD FOR WATER DISTRIBUTION AND LASER BOUNDARY IN PADDY FIELDS

<p>(51) International classification :A01G0025160000, A61B0005145500, G08B0021020000, F24F0110100000, G05B0023020000</p> <p>(86) International Application No :NA Filing Date :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)CMR College of Engineering & Technology Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>2)Abdul Subhani Shaik 3)Dr. M Suresh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Abdul Subhani Shaik Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>2)Dr. M Suresh Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system and method for water distribution and laser boundary in paddy fields. The system includes a plurality of sensors that measure various parameters and send data to a microcontroller. A WiFi module integrated with the microcontroller enables remote monitoring and control; a laser generator and detector system that establishes a protective laser boundary around the paddy field, alerting the microcontroller to animal presence; an LCD display screen linked to the microcontroller presents real-time sensor data to users; a buzzer, connected to the microcontroller, generates sound alerts in response to detected signals; a relay switch, linked to a motor, controls water flow through the irrigation system, ensuring precise water distribution in the paddy fields, collectively enhancing efficiency and crop protection. FIG. 1

No. of Pages : 21 No. of Claims : 10