

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 14/2022
ISSUE NO. 14/2022

शुक्रवार
FRIDAY

दिनांक: 08/04/2022
DATE: 08/04/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

<p>(51) International classification :B65F0001140000, B65F0001000000, G07F0017120000, B65F0001160000, G05B0019042000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</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 :</p> <p>1)CMR College of Engineering & Technology, Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>2)N.Venu Babu 3)Akhilesh Bantu 4)N. James 5)Uday Raddi 6)B.Ankitha 7)P.Mahesh Babu 8)Archana Bathula 9)Ch.Neelima 10)B Chakradhar 11)Dr. D.Neelima Patnaik 12)G Anil</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)N.Venu Babu Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>2)Akhilesh Bantu Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>3)N. James Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>4)Uday Raddi Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>5)B.Ankitha Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>6)P.Mahesh Babu Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>7)Archana Bathula Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>8)Ch.Neelima Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>9)B Chakradhar Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>10)Dr. D.Neelima Patnaik Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p> <p>11)G Anil Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for automated collection of waste with a programmable open-source microcontroller board to take the submission of a code for it to start working and post the submission of the said code a power gets supplied to the circuit for the system to start; an ultrasonic sensor to locate the distance of the user and a dustbin which is used for collection of waste and the ultrasonic sensor has two round drum like objects which are for transmitting the signal and receiving the signal respectively; a servo motor connected to the programmable open-source microcontroller board, and it works to open the lid of the dustbin post calculation of a distance by the programmable open-source microcontroller board between a user and the dustbin; and a low energy network device to pass on the instructions to the dustbin to move and come near the user given through a smart device connected to it. FIG. 1

No. of Pages : 15 No. of Claims : 5