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(71)Name of Applicant :
1)ALLINNOV RESEARCH AND DEVELOPMENT PRIVATE LIMITED
Address of Applicant :D.NO: 29B, BAIRAPPA COLONY, KRISHNAGIRI - 635001, TAMILNADU, INDIA Tamil Nadu India
(72)Name of Inventor :
1)DR. AMARENDRA MATSA
2)Dr.B.P UPENDRA ROY
3)Dr.MOHD ABDUL BARI
4)Dr.GANDHIMATHI.G
5)Dr. BODDEPALLI RAJANI
6)RAJENDIRAN. M
7)Dr.C.SATHIYA KUMAR
8)DR.V.PRIYA
9)DR.K.PRASANTH
10)Dr. K.AMUDHA
11)Dr.R.NITHYA
12)DINESH KUMAR U

(57) Abstract :
The present invention discloses a device which separates the degradable and non-degradable matter and converts a bio gas of the degradable matter into electricity: said device comprising a device cap, a collection unit, a degradable waste storage chamber, a non-degradable waste storage chamber, a power generation unit, a plurality of wheels, a plurality of sensors, a microcontroller and processor, a display, a GPRS IOT, a motor driver and a pick and place assembly. The device separates the degradable and non-degradable wastes and converts the bio gas of the degradable waste into electricity and sends message through GSM module to the trash management when the Trash Collector is filled completely as sensed by the IR sensor. The pick and place assembly is based on image processing of dust by surveillance and it moves to a corresponding place to collect the dust using the motor driver and the four wheels and can be called a user using Wi-Fi or other wireless communication.

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