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(54) Title of the invention : AUTONOMOUS WASTE MANAGEMENT DEVICE

(51) International classification	:B65F0001140000, G05D0001080000, G05D0001020000, G05D0001000000, B65F0001160000	(71)Name of Applicant : 1)Chandigarh Group of Colleges, Jhanjeri Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India
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(57) Abstract :

The present invention relates to an autonomous waste management device, comprising a bin body 4 having a lid 1 associated with the device for storing garbage, an ultrasonic sensor for detecting garbage level inside the body 4, a camera 3 for capturing real time image of nearby surrounding of the body 4, a control unit for generating command signal based on the detected garbage level and captured image, a communication module to send the command signal into a web platform in order to notify a registered authority about the garbage level, motors equipped with at least two pair of wheels 5, 8 fixed beneath the body that receives the command signal for providing a locomotion to the body 4 with certain time delay for a predefined path, and a radio-frequency identification (RFID) tag that allows complete access to the device. Ref Figure 1 and 2

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