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(54) Title of the invention : INCENTIVIZING GARBAGE DISPOSAL SYSTEM FOR SUSTAINABLE WASTE MANAGEMENT

<p>(51) International classification :B02C 180000, B09B 030000, B65F 011400, G06F 120200, G06Q 502600</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)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA GREATER NOIDA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PRAKHAR SAH Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----</p> <p>2)DR. KUMOD KR. GUPTA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----</p> <p>3)DR. VIKAS SAGAR Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----</p> <p>4)DR. PRIYANKA CHANDANI Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----</p>
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(57) Abstract :

The disclosed incentivizing garbage disposal system (100) comprises a smart dustbin (102) designed to promote sustainable waste disposal practices. The system includes various components such as a navigation unit (202), display screen (206), camera (208), sensor (214), and a controller (210). The controller receives garbage images, determines the waste type using image processing, opens the appropriate compartment, and generates tokens as rewards for successful disposal. The system facilitates the separation of general waste, recyclable waste, and food waste into different compartments. It enables user access through activation signals and displayed QR codes, and it may generate alert signals and transmit notifications to user devices. The system operates in conjunction with an application (118) that allows first users (students, employees) and second users (garbage collectors, waste management companies) to access the smart dustbin. Overall, the incentivizing garbage disposal system encourages proper waste disposal and contributes to sustainable waste management.

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