

(54) Title of the invention : UNMANNED AERIAL VEHICLE (UAV) BASED SMART GARBAGE COLLECTION SYSTEM AND METHOD THEREOF

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(57) Abstract :

The present disclosure relates to an Internet of things (IoT) based trash management system. The IoT based trash management system (100) includes a platform (102) to receive a trash collector container (110). The platform (102) has a pressure sensor (108) and a transceiver device (106). The pressure sensor (108) senses a pressure exerted by the trash collector container. The transceiver device (106) coupled with the pressure sensor (108) and monitors the sensed pressure exerted by the trash collector container. The system includes an unmanned aerial vehicle (UAV) (116) to intercept a first packet from the plurality of packets to determine location co-ordinates of the trash collector container and find a real-time location of the trash collector container based on the determined location co-ordinates to collect at least trash available in the trash collector container.



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