REVERSE VENDING MACHINE BASED ON AUTOMATIC REWARD POINT SYSTEM

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Abstract

To encourages the people to interchange their used plastic bottles, beverage cans for reward point using Reverse Vending Machine (RVM). In this RVM machine generally automates containers, plastic bottles to recycling by accepting it directly from the consumer and depends on the weight the reward point or refund amount will deposit to the consumer. The system is based on Arduino, sensor, Servo motor. The individual consumer information, weight of crushed plastic/cans is identified using sensors and the equivalent reward point deposited to consumer. Consumer can claim their reward point using RFID card. Microcontroller used to control the above mentioned process. In order to implement the system in small streets, transportation, educational institution, sports event and etc. To improve the waste management system and motivate the people for recycling by providing reward points.

Keywords---Reverse Vending Machine (RVM), RFID, Waste Management.

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