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(57) Abstract :

A system 100 for a multi-chamber garbage bin 102 for sorting and collecting garbage configured with lids 104, a collecting hopper 106, a sorting platform 108, a pair of sorting arms 110, a plurality of sensors, a plurality of motors 114, a control unit 112 configured for the operations of the system 100, wherein the control unit 112 with the arduino board 112-1 controls the system 100 based on the signals received from the plurality of sensors and the sorting arms 110 coupled to a pair of first motors 114-1 and 114-2 and another pair of second motors 114-3 and 114-4 to open and close lids 104 of the garbage bin 102. The system is powered by a rechargeable battery 124.

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