(12) PATENT APPLICATION PUBLICATION

(21) Application No.201841031012 A

(19) INDIA

(22) Date of filing of Application :20/08/2018

(43) Publication Date : 31/08/2018

(54) Title of the invention : SMART TWIN BIN WITH A METHODOLOGY OF SEGREGATING WET AND DRY WASTE

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(32) Priority Date	:NA	
(33) Name of priority country	:NA	Address of Applicant :SRI VENKATESHWARA COLLEGE
(86) International Application No	:NA	OF ENGINEERING,KIA ROAD, VIDYANAGAR,
Filing Date	:NA	BENGALURU - 562 157, INDIA. Karnataka India
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Filing Date	:NA	

(57) Abstract :
The present process of invention relates to a smart twin bin that detects and identifies the waste into wet waste and dry waste which further drops it into an appropriate bin. This process comprises of atleast one motion sensor, atleast two IR sensors, atleast two moisture sensors, atleast two set of multicoloured four legged LEDs containing atleast six numbers in each set, atleast one Arduino board, atleast two Lead Screw Rod with shaft coupling and mounted ball bearing set with housing bracket & atleast one stepper motor, a wiper, two compartments with two internal bins, two ultrasonic sensors, atleast three servo motors. The two internal bins inside the two compartments are provided with lids and space for collecting wet and dry waste separately. This system is equipped with a automatic horizontal lid which consists of three partitions among which the first one is the place for waste collector with upper lid, 2 and 3rd are two compartments for waste collection. This is an electronically controlled system the user is allowed to place the waste and the system will automatically sense, detects and drops the waste in an appropriate bin without any hurdles or getting the hands dirty.

No. of Pages : 8 No. of Claims : 5