

(54) Title of the invention : INTELLIGENT STANDALONE RESIDENTIAL COMPOST GAS GENERATOR.

(51) International classification :B60R0021264000, B60R0021217000, C05F0017907000, G06Q0050160000, B60R0022460000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Handling of waste generated in households is a tedious task, as it requires regular maintenance. The wet waste generated in the households consists of rather high amount of energy, which can tapped for any other use. The invention focusses on both handling of the generated waste in an effective way and producing biogas from the waste. The invention operates in two stages. The initial stage of waste collection can be further sub divided into (i) human detection (ii) waste collection (iii) waste segregation (iv) Estimation of amount of waste (v) crushing of the waste. The second stage of the invention is to generate the biogas from the waste. This second stage is having the following steps, (i) Water mixing with the waste (ii) stirring of the mixture of water and the waste (iii) anaerobic digestion (iv) Collecting the gas (v) delivering the generated gas. The invention improves the biogas production with use of machine learning algorithm to achieve optimal conditioning and control; the invention endorse the idea of organized waste disposal by remunerating fertilizer and compost gas.

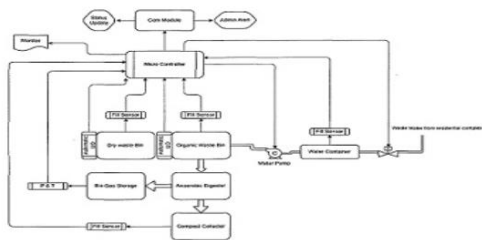


Figure - 1 Schematic of SMART bin

No. of Pages : 7 No. of Claims : 9