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Patent Search

Invention Title	SYSTEM AND METHOD FOR PREPARING COMPOST FROM FOOD WASTE
Publication Number	46/2022
Publication Date	18/11/2022
Publication Type	INA
Application Number	202241062017
Application Filing Date	31/10/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B65F0001140000, G03F0007200000, H03G0003300000, C05F0009020000, A61M0016160000

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Abstract:

SYSTEM AND METHOD FOR PREPARING COMPOST FROM FOOD WASTE ABSTRACT A system (100) for preparing compost from food waste, comprising: a bin (102) comprising an infrared sensor (114) senses a signal; a shredder (116) operates to crush the food waste; a level sensor (118) senses a level of smaller pieces; a temperature and humidity : (126) configured senses a temperature and humidity level; a controller (136) receives the signal; level of smaller particles, temperature and humidity level; determines the presence of food waste; opens a base inlet of food waste collection unit (108); operates the shredder (116); compares the level of smaller particles with predefined level; st mixing rods (120) when the level of smaller particles is greater than or equal to the pre-defined level; compares the humidity level with pre-defined humidity level; transfer compost into a compost collection unit (112) when the humidity level is in a range of the pre-defined humidity level. Claims: 10, Figures: 6 Figure 1A is selected.

Complete Specification

Description:

BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to a food waste conversion and particularly to a system and method for preparing compost from food waste.

Description of Related Art

[002] India generates 62 million tons of waste (mixed waste containing both recyclable and non-recyclable waste) every year, with an average annual growth rate of 4%. Out of this generated waste, nearly 30% constitutes food waste. Disposal of waste through landfills has some serious problems. Various states have made laws or policies to prohibit a usage of landfill capacity for disposal of the waste, to avoid huge health issues. Also, a capability of organic waste being converted into manure is merely be wasted sometimes.

[003] Various types of compost bins are available that takes more than 45 days for compost preparation. Although, these types of compost bins are affordable; however, requires so much manpower to prepare the compost. One-day compost bins are also available for a large quantity of food. However, the one-day compost bins are high cost and only suitable for the larger quantity of food.

[004] There is thus a need for an improved and advanced system and method for preparing the compost from food waste that can administer the aforementioned limitations in a more efficient manner.

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Page last updated on: 26/06/2019