

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031206 A

(19) INDIA

(22) Date of filing of Application :12/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : SYSTEM AND METHOD OF BIOGAS PRODUCTION- A HOUSEHOLD BIOGAS DIGESTERS

|  |   |  |
|--|---|--|
| (51) International classification      | :C12M0001107000,<br>C12M0001000000,<br>C02F0003280000,<br>C12P0005020000,<br>C02F0011040000 | (71)Name of Applicant :<br><b>1)Dr.M.SARAVANAN</b><br>Address of Applicant :ASSOCIATE PROFESSOR,<br>DEPARTMENT OF MECHANICAL ENGINEERING<br>ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR,<br>CHIDAMBARAM, TAMIL NADU 608002. Tamil Nadu India<br><b>2)Dr.R.SURESH</b><br><b>3)Mr. R. SENTHIL KUMAR</b><br><b>4)Dr. NAVNEET JOSHI</b><br><b>5)Dr. ISHAN Y. PANDYA</b><br><b>6)Mr. S. KRISHNARAJ</b><br><b>7)Mr. P. ANBARASU</b><br><b>8)Mr. S. SIVA CHANDRAN</b><br><b>9)Dr. CHIKKAPPA UDAGANI</b> |
| (31) Priority Document No              | :NA   | (72)Name of Inventor :<br><b>1)Dr.M.SARAVANAN</b><br><b>2)Dr.R.SURESH</b><br><b>3)Mr. R. SENTHIL KUMAR</b><br><b>4)Dr. NAVNEET JOSHI</b><br><b>5)Dr. ISHAN Y. PANDYA</b><br><b>6)Mr. S. KRISHNARAJ</b><br><b>7)Mr. P. ANBARASU</b><br><b>8)Mr. S. SIVA CHANDRAN</b><br><b>9)Dr. CHIKKAPPA UDAGANI</b>  |
| (32) Priority Date                     | :NA   |  |
| (33) Name of priority country          | :NA   |  |
| (86) International Application No      | :NA   |  |
| Filing Date                            | :NA   |  |
| (87) International Publication No      | : NA  |  |
| (61) Patent of Addition to Application | :NA   |  |
| Number                                 | :NA   |  |
| Filing Date                            | :NA   |  |
| (62) Divisional to Application Number  | :NA   |  |
| Filing Date                            | :NA   |  |

(57) Abstract :

ABSTRACT SYSTEM AND METHOD OF BIOGAS PRODUCTION- A HOUSEHOLD BIOGAS DIGESTERS This development is to evaluate the practicality of limited scope biogas creation utilizing natural waste, investigate choices for its application and propose a plan of action on how feedstock sourcing, office activity and finished result use could be acknowledged in the exploration region. Biogas creation has contributed incredibly as an elective wellspring of fuel power supply in agricultural country diminishing the fixation on oil based good. Each house is producing 2 to 5 kg of strong waste regular and they create sufficient methane ,which can secure the environmental change. Versatile biogas plant can be introduced in every one of the houses and they can drop the day by day producing food squander into the biogas digester . The digester is planned in a such a manner that biomethenization cycle will occur and food waste will be changed over to methane and fluid excrement. The creation and usage of biogas assumes a critical part in arranging and changing over civil and agrarian waste into fuel that can be use at home for cooking and lighting.

No. of Pages : 21 No. of Claims : 5