

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511077723 A

(19) INDIA

(22) Date of filing of Application :14/08/2025

(43) Publication Date : 05/09/2025

(54) Title of the invention : BRICK MANUFACTURING DEVICE

(51) International classification :B28B0015000000, B28B0017000000, B28B0013020000, B28B0005020000, B29B0013060000

(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

(71)**Name of Applicant :**
1)Chitkara University
 Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----
2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Ranbir Singh Rooprai
 Address of Applicant :Chitkara University Research & Innovation Network (CURIN), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----
2)Maninderjeet Singh
 Address of Applicant :Research Scholar, Chitkara University Research & Innovation Network (CURIN), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

3)Nitin Saluja
 Address of Applicant :Director, Chitkara University Research & Innovation Network (CURIN), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----
4)Varinder Singh
 Address of Applicant :Chitkara University Research & Innovation Network (CURIN), Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

(57) Abstract :
 A brick manufacturing device, comprises of multiple chambers 101 disposed within the body that is filled with a specific material, a mixing module 102 includes a mixer and a conduit to connect multiple chambers 101 with the mixing module 102, a brick shaping mold 103 includes a vertical pusher and a horizontal plate where the vertical pusher applies a pre-defined pressure employing a pressure value over the mixed brick manufacturing materials via the plate, an AI and ML modules determine a suitable shape, pneumatic pins 107 then adjust their dimensions to mold the mixed brick manufacturing materials solution into desired form, the horizontal pusher pushes the brick out of the cuboidal container for positioning on conveyor belt 104, a microwave furnace 105 is customized to provide drying times and temperatures, a display module 106 enables to input the preferences and requirements, a storage 108 for storing the manufactured bricks.

No. of Pages : 21 No. of Claims : 10