

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014088 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 23/12/2022

(54) Title of the invention : AUTOMATED DRYWALL FIXATION DEVICE

(51) International classification	:B65H0035000000, E04F0021165000, E04F0013040000, B44C0007020000, E04F0021020000	(71)Name of Applicant : <b>1)Chandigarh Group of Colleges, Jhanjeri</b> Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Rohini</b>
(32) Priority Date	:NA	<b>2)Amandeep Kaur</b>
(33) Name of priority country	:NA	<b>3)Syed Mohd. Arif</b>
(86) International Application No	:NA	<b>4)Malika Arora</b>
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	

(57) Abstract :

The present invention relates to an automated drywall finishing device, comprising, handheld body 1 included with artificial intelligence based imaging unit 4 over first 2 portion for detecting type of joint while attaching multiple sections of drywall together, proximity sensor for detecting distance between joint and first 2 portion when user manually holds body 1 over joint, tape dispenser 5 rotates to unwind sticky side of tape facing down that is controlled through a clip regulating movement of tape towards first 2 portion, guide rails 9 assembly equipped with two motorized rollers for moving rollers over guiderails in accordance with type of edge detected for providing pressure while pasting tape on drywall's joint and a motorized applicator 6 for spreading plaster over tape, thereby providing smooth finish at joints of drywall. Ref. Figure 1 & 2

No. of Pages : 16 No. of Claims : 9