

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014575 A

(19) INDIA

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

(43) Publication Date : 23/12/2022

(54) Title of the invention : WOOD EDGE SHAPING DEVICE

(51) International classification	:B27C0005060000, G01N0033460000, B27M0001020000, G01N0021898000, B27C0005100000	(71) Name of Applicant : 1)Chandigarh Group of Colleges, Jhanjeri Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India
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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 :

A wood edge shaping device, comprising, a rotating platform 2 with multiple slots, the belt 1 enables movement of a wood piece while shaping, a lead screw 3 having a pair of router bits 4, the router bits 4 slides over the lead screw 3 to assist in shaping edges of the wood piece, an Artificial Intelligence (AI) camera 5 for capturing images of the wood piece, the microcontroller generate a command to adjust gap between the router bits 4, a motorized flap 8 for pushing the wood piece towards the platform 2, the sliding rail 7 aids in movement of the flap 8, an ultrasonic sensor 9 for detecting density and defect on the wood piece, and a moisture sensor 10 for detecting moisture content of the wood piece, the microcontroller generates a command for regulating force applied on the wood piece by the flap 8. Ref Figure 1.

No. of Pages : 12 No. of Claims : 5