

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014046 A

(19) INDIA

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

(43) Publication Date : 16/12/2022

(54) Title of the invention : ADJUSTABLE DIE PIPE BENDER

(51) International classification	:B21D0007120000, B21D0007060000, B21D0007080000, B21D0053020000, G06Q0020320000	(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
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Kuldeepak Saini
(32) Priority Date	:NA	2)Sarabjit Singh
(33) Name of priority country	:NA	3)Taranveer Singh
(86) International Application No	:NA	4)Sumit Kumar
Filing Date	:NA	5)Girish Mishra
(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 :

An adjustable die pipe bender, comprising, a tripod stand 1 to support a hub 2 comprising of a rack 3 that vertically slides over motorized pinion gear 4, pair of upper and lower plate 5 attached with hub 2 and positioned in front of rack 3, wherein both ends of plates 5 are attached with each other via motorized wheels 6 over which both ends of pipe rests, multiple die 7 of varied dimension installed over rack 3 that provides bending torque to bend pipe in specific angle, wherein user via display unit selects one of die 7 to bend pipe and actuator connected to the rack 3 and pinion 4, wherein upon placing pipe between plates 5, actuator via a push of a button 8 starts to extend in outwards direction to apply bending torque over pipe via the die 7 to twist pipe up to an angle. Ref Figure 1

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