

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014040 A

(19) INDIA

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

(43) Publication Date : 16/12/2022

(54) Title of the invention : AUTOMATED FLARING DEVICE

(51) International classification	:B23K0026030000, G05B0019416000, G01N0033480000, B21D0041020000, G01B0005080000	(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 :
(32) Priority Date	:NA	<b>1)Richa Mehta</b>
(33) Name of priority country	:NA	<b>2)Dr. Sajjan Singh</b>
(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	

(57) Abstract :

An automated flaring device, comprising, a frame 1 in combination with an iris door 2, the door 2 provides grasping of a workpiece, a laser sensor 3 for measuring diameter of the workpiece, the controller generates a command to adjust blades of the door 2 according to diameter of the workpiece, a filer 4 for uniformly shaping edges of the workpiece, the actuator 5 provides linear movement to the filer 4, a strain gauge 6 for measuring strength of material of the workpiece, the controller generates a command to movement of a wing nut 10 and the filer 4, a motorized yoke 7 contrived on a bar assembly 8 for shaping end of the workpiece, the yoke 7 expands and retracts via pin on mechanism, and an IR sensor 9 for detecting presence of the workpiece, the controller generates a command to activate the motorized yoke 7. Ref Figure 1

No. of Pages : 12 No. of Claims : 7