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(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

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