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(57) Abstract :

A customized fence manufacturing device, comprising a housing 1 positioned on fixed surface, a touch enabled screen 2 for allowing a user to enter details regarding dimension of a fence that is to be manufactured along with size of wire mesh, a pair of sliders 3 configured with curved members 4 to translate members 4 and position members 4 at appropriate distance, a camera 6 for capturing multiple images of interior of housing 1 to detect free-end of a metallic wire wrapped on roller placed within housing 1, a robotic arm 7 to grip free-end of wire and insert wire to wrap wire on strip 5, a telescopically operated link 9 assembled with a motorized cutting unit 10 to extend for positioning cutting unit 10 in contact with wire, a robotic gripper 11 equipped with an electric arc welding unit 12 to join bended wires together.

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