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(57) Abstract :

An automatic mesh wire manufacturing device comprises of a platform 1 arranged with an inverted U-shaped frame 2 for placing a motorized roller 3 that is wrapped with a metal wire to wrap/unwrap the wire, a touch enabled screen 4 to provide input commands relating the length and number of turns of a mesh wire, detachable telescopically operated rods 5 to position an elongated member 6, a telescopically operated gripper 7 to wrap a free-end of the wire on the member 6, a motorized slider 8 to translate the roller 3, a robotic arm 9 to position the cutter 10 and cut the wire, an electromagnet to detach the rod 5 from the member 6, a mechanical arm 11 to wrap the wire at a second end of the member 6 and an ultrasonic sensor to detect the length of the wire.

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