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(57) Abstract :
A plywood carving device for electric box, comprises of a rectangular extendable platform 1 accommodated in an electric box pre-installed in a wall, a computing unit accessed by a user to provide input commands for carving opening in electric box, multiple ultrasonic sensors detect dimensions of electric box, a pneumatic blade arranged at each side of platform 1 to pierce through plywood, a tactile sensor to detect hardness of plywood, a pressure sensor to detect pressure applied by blade 2 on plywood for enabling blade to increase pressure while piecing the plywood, a motorized slider 3 to provide translation to blade 2 for cutting the plywood, a camera 4 to detect successful cutting of plywood and a telescopically operated pusher 5 to remove the cut piece from plywood.

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