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(57) Abstract :

An automated Lichtenberg figures engraving device for wooden planks 18, comprising a housing 1 within an enclosure, a chamber 3 mapped within the housing 1 for placing a wooden plank 18, a weight sensor identifying presence of the plank 18, a motorized lid for place the plank 18 over the platform, four telescopic grippers 5 grip the plank 18 on the platform, an artificial intelligence based image capturing module 6 capture images of the plank 18, a touch interactive display panel 7 shows the fetched patterns, a holographic projector 8 projects a beam of laser light over plank 18, a laser cutter 10 engrave lines of different shapes over plank 18, a suction unit 11 remove dust produced upon engraving, a vessel 12 stored inflammable solution, an electronic nozzle dispense the solution within engraved lines and a pair of electrodes 13 provide an electric current within the lines.

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