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(57) Abstract :

An engine splash plate restoration device comprises of a housing 1 to place over a surface, a first and second set of telescopically operated rods 2 to accommodate an engine splash plate, a suction cup 3 to grip the plate, an artificial intelligence enabled image capturing module 4 and an capacitance sensor to detect the material of plate, multiple electronic nozzles 5 to dispense cleaning solution on plate, a telescopic operated bar 6 to position attached component, a motorized ball and socket joint to turn attached component, a motorized brush 7 to rub the plate, a telescopically operated gripper 10 to hold the strip on detected damage, a robotic arm 11 and a mechanical arm 13 to position and operate an attached component, a plastic welding unit 12 and a welding torch 14 to weld the plastic and metal strip on the detected damage.

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