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(54) Title of the invention : MOBILE SPIDER CAPTURE AND WEB REMOVAL DEVICE

(51) International classification	:G03H 1/22, A01M 1/22, A01M 1/20, G05D 1/02, G05D 1/10	(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura Punjab India
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(57) Abstract :

A mobile spider capture and web removal device, comprising of a body 101, an environmental perception unit 102 to generate a three-dimensional spatial map of a surrounding area and to detect spider presence, spider webs, web anchor points, and navigable paths, a body handling module to move, orient, and stabilize the body 101 based on real-time data received from the environmental perception unit 102, a holographic projection unit 106 to generate insect-like visual patterns having adjustable speed, trajectory, and brightness, an acoustic vibration transducer 107 to generate low-amplitude, irregular vibration pulses that propagate through web strands and surrounding air, a proximity-regulated airflow unit 108 that varies airflow intensity relative to the capture chamber, and a plurality of textured rubberized rollers 115 to gently grip, disentangle, and guide spider silk strands into the intake tube 114 without tearing or dispersing the web material.

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