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(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla,
Rajpura, Punjab - 140401, India. Rajpura Punjab India

(72)Name of Inventor :

1)Geetanjali

(57) Abstract :

A handheld device for targeted tissue simulation, comprising a handheld body 101 with a handle 102 configured with a control switch 103, ergonomically designed for comfortable grip and operation by the user, a cubical unit 104 attached with the handle 102 via a motorized ball and socket joint 105 enabling multi-directional angular movement to orient the head toward a targeted treatment area, a piezoelectric transducer 110 generates ultrasonic waves to stimulate deep tissue, modulating cellular activity and reducing discomfort or inflammation, a vibration unit 111 provides controlled mechanical stimulation for muscle relaxation and improved circulation, a user-interaction interface 112 including a microphone 112a for verbal commands and a user-interface within a connected computing unit 112b for manual input, an LED touchscreen display 113 shows operational parameters and enables interaction, a pair motorized rollers 114 with elastic straps 115 and electromagnetic locks 116 secure the device for stable hands-free operation.

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