

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331010273 A

(19) INDIA

(22) Date of filing of Application :15/02/2023

(43) Publication Date : 24/02/2023

(54) Title of the invention : A Sonic Photobiostimulation Therapeutic Machine Device

(51) International classification :A61N5/06
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

[027] The present invention provides a highly effective therapeutic device called a sonic photobiostimulation machine device combines an ultrasonic wave with a laser (light amplified by stimulated emission of radiation) in one transducer head or applicator. By causing the activation and proliferation of the Schwann cells and its related tissues, the combination of LASER ultrasonic wave aids in the regeneration of peripheral nerves and surrounding tissues that have been surgically or traumatically wounded. Based on the aforementioned viewpoints, the synergism of LASER and ultrasonic wave has a very substantial impact on the creation of a therapeutic modality for controlling regeneration and functionality following peripheral nerve injury.

No. of Pages : 16 No. of Claims : 5