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11 trauma centers in Austria now has one of our MTS devices in every one of those centers. Every Spinal chord trauma patient is now seen and treated with in 72 hrs of injury. The pilot study showed that we help reduce the risk of paralysis by 50%. Our parent company Tissue Regeneration Technology, actually holds a patent on the promotion of regeneration & nerve growth & elongation.



US007544171B2

(12) **United States Patent**
Schaden et al.

(10) **Patent No.:** US 7,544,171 B2
(45) **Date of Patent:** *Jun. 9, 2009

(54) **METHODS FOR PROMOTING NERVE REGENERATION AND NEURONAL GROWTH AND ELONGATION**

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 255 days.
This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(60) Provisional application No. 60/699,719, filed on Jul. 14, 2005, provisional application No. 60/642,149, filed on Jan. 10, 2005, provisional application No. 60/621,028, filed on Oct. 22, 2004.

(51) **Int. Cl.** A61H 1/02 (2006.01)

(52) **U.S. Cl.** 601/2; 601/4; 600/437; 600/427


(58) **Field of Classification Search** 601/2-4; 600/437-461, 427
See application file for complete search history.

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(57) **ABSTRACT**
A method of enhancing the regeneration of injured nerves has the step of administering an effective exposure of pressure pulses or acoustic shock waves in a pulse or wave pattern to the zone of injury of the nerve during the regeneration process. The inventive method may include enhancing the stimulation of neuronal cell growth or regeneration by administering an effective exposure of pressure pulses or acoustic shock waves in a pulse or wave pattern to stimulate neuronal cell growth or regeneration, wherein the administering of the treatment is applied to a patient who has a pathological condition where neuronal repair can be facilitated including peripheral nerve damage caused by injury or disease such as diabetes, brain damage associated with stroke, and for the treatment of neurological disorders related to neurodegeneration, including Parkinson's disease, Alzheimer's disease and amyotrophic lateral, sclerosis multiple sclerosis and disseminated sclerosis. The treatment is ideally suited for neural regeneration after a degenerative condition due to any neurological infections or any other pathological condition.

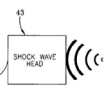
17 Claims, 9 Drawing Sheets

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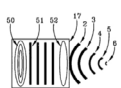


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