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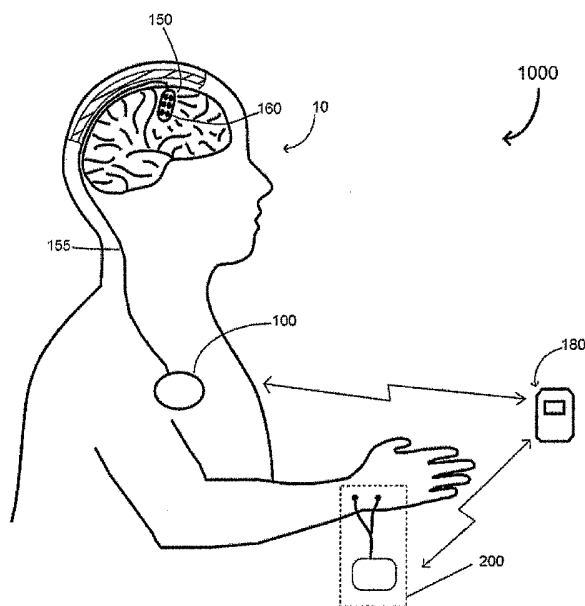
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEMS AND METHODS FOR ENHANCING OR AFFECTING NEURAL STIMULATION EFFICIENCY AND/OR EFFICACY



(57) Abstract: Systems and methods for enhancing or affecting neural stimulation efficiency and/or efficacy are disclosed. In one embodiment, a system and/or method may apply electromagnetic stimulation to a patient's nervous system over a first time domain according to a first set of stimulation parameters, and over a second time domain according to a second set of stimulation parameters. The first and second time domains may be sequential, simultaneous, or nested. Stimulation parameters may vary in accordance with one or more types of duty cycle, amplitude, pulse repetition frequency, pulse width, spatiotemporal, and/or polarity variations. Stimulation may be applied at subthreshold, threshold, and/or suprathreshold levels in one or more periodic, aperiodic (e.g., chaotic), and/or pseudo-random manners. In some embodiments stimulation may comprise a burst pattern having an interburst frequency corresponding to an intrinsic brainwave frequency, and regular and/or varying intraburst stimulation parameters. Stimulation signals providing reduced power consumption with at least adequate symptomatic relief may be applied prior to moderate or significant power source depletion.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/24766

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61N 1/06(2006.01)

USPC: 607/116

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 607/116-118

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,246,912 B1 (Sluijter et al) 12 June 2001 (12.06.2001), column 7, lines 20-45.	1-3, 6-21, 25, 26 and 29-37
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Y		4, 5, 22-24, 27, 28 and 38-44

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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Date of the actual completion of the international search

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