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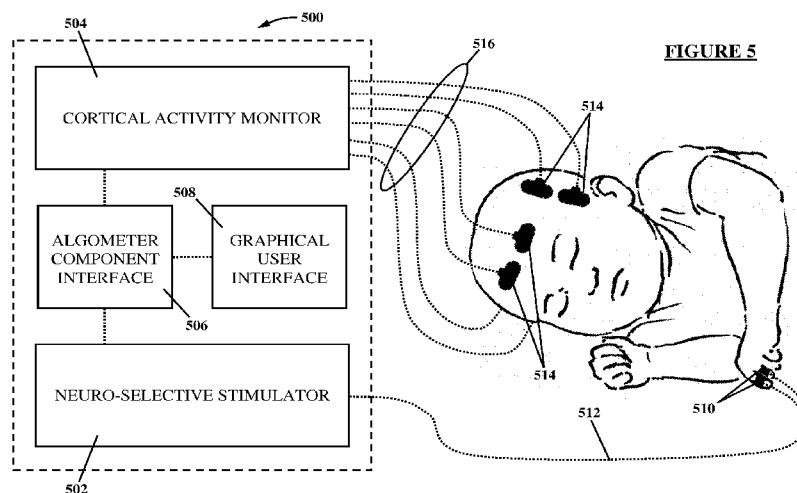
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(54) Title: APPARATUS AND METHOD FOR HUMAN ALGOMETRY

**FIGURE 5**

(57) Abstract: An apparatus and method for performing human algometry are disclosed. They include a stimulator configured to apply electrical stimulation of variable intensity to an area of a patient's body, a monitoring device configured to measure a level of cortical activity in one or more regions of the patient's brain, and a microprocessor connected to the stimulator and the monitoring device that is configured to correlate the intensity of the electrical stimulation with the level of activity in the one or more regions of the patient's brain and to determine at least one of a measurement of pain intensity, a measurement of a sensory detection threshold (SDT), a measurement of a drug's analgesic impact, an indication of an onset of tolerance to a drug, an indication of an onset of analgesic-induced hyperalgesia, an indication of conditions of allodynia, a measurement of dose-response characteristics of pain management drugs, and a characterization of a pain condition.

A. CLASSIFICATION OF SUBJECT MATTER*A61B 5/00(2006.01)i, A61B 5/0476(2006.01)i, A61B 5/0484(2006.01)i, A61B 5/055(2006.01)i*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61B 5/00; A61B 5/05; A61K 49/00; A61B 10/00; A61B 5/055

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: stimulation, cortex, pain

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0076372 A1 (ENGLAND ROBERT L.) 19 March 2009 See abstract, paragraph[0054]-[0057], claims 27,36-39,43-45, and figure 1	1-27
A	WO 2006-071891 A2 (THE GENERAL HOSPITAL CORPORATION et al.) 06 July 2006 See abstract, page 1, line 18 - page 2, line 16, page 13, line 7-24, page 15, line 4 - page 16, line 31, and claims 1,5,11-15	1-27
A	US 2009-0220425 A1 (MOXON KAREN ANNE et al.) 03 September 2009 See abstract, paragraph[0026],[0035],[0048]-[0051],[0053]-[0057], and claims 1-4,16-17	1-27
A	US 2005-0020905 A1 (SIDALL PHILIP JOHN et al.) 27 January 2005 See abstract, paragraph[0023]-[0030],[0036],[0046], claims 1-10, and figure 1	1-27



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

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