

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 May 2007 (03.05.2007)

PCT

(10) International Publication Number
WO 2007/050780 A3

(51) International Patent Classification:
A61B 5/04 (2006.01)

(21) International Application Number:
PCT/US2006/041826

(22) International Filing Date: 24 October 2006 (24.10.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/730,122 24 October 2005 (24.10.2005) US

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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
30 April 2009

(54) Title: NEUROLOGIC SYSTEM AND ASSOCIATED METHODS

(57) Abstract: The present invention includes systems and methods for assessing stimulatory effects on a neurologic system. One method may include steps of stimulating the neurologic system, monitoring at least one neurologic state for effects of the stimulation to the neurologic system, gathering multi-dimensional data from the monitoring of the at least one neurological state, and analyzing the multi-dimensional data to determine multi-dimensional interactions between the stimulation and the effects on the at least one neurological state. Various neurologic states are considered to be within the scope of the present invention, including, without limitation, hypnotic, analgesia, relaxation, stress, depression, anxiety, allostasis, immune response, and combinations thereof.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/41826

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **A61B 5/04**(2006.01)

USPC: 600/544;607/45

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. : 600/544;607/45

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 --- Y | US 20050043774 A1 (DEVLIN et al) 24 February 2005 (24.02.2005), paragraphs [0015], [0018], [0024], [0028], [0063]-[0064], [0067], [0076], [0087]-[0088]. | 1, 2, 4, 8-15, 20, 21, 23 ----- 3, 5-7, 16-19, 22 |
| Y | US 6493576 B1 (DANKWART-EDER) 10 December 2002 (10.12.2002), column 1, lines 17-20 and 43-47. | 3, 22 |
| Y | US 5995868 A (DORFMEISTER et al) 30 November 1999 (30.11.1999), column 1, lines 36-41. | 5-7 and 17-19 |
| Y | US 5299569 A (WERNICKE et al) 5 April 1994 (5.04.1994), figure 1. | 16 |



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Date of the actual completion of the international search

10 May 2008 (10.05.2008)

Date of mailing of the international search report

21 MAY 2008

Name and mailing address of the ISA/US

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Alexandria, Virginia 22313-1450

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