

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 February 2007 (15.02.2007)

PCT

(10) International Publication Number
WO 2007/018797 A2

(51) International Patent Classification:

A61N 1/36 (2006.01) A61M 5/142 (2006.01)
A61N 1/05 (2006.01) A61N 2/00 (2006.01)

(21) International Application Number:

PCT/US2006/025064

(22) International Filing Date: 26 June 2006 (26.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/192,594 29 July 2005 (29.07.2005) US

(71) Applicant (for all designated States except US): **CYBERONICS, INC.** [US/US]; 100 Cyberonics Blvd., Houston, TX 77058 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MASCHINO, Steven, E.** [US/US]; 2501 Sand Bar Court, Seabrook, TX 77586 (US). **BURAS, William, R.** [US/US]; 911 Merriewood Drive, Friendswood, TX 77546 (US). **BRANNAN, Stephen, K.** [—/US]; 1108 Oak Park Lane, Friendswood, TX 77546 (US).

(74) Agent: **SCOTT, Timothy, L.**; 100 Cyberonics Blvd., Houston, TX 77058 (US).

(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, 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, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

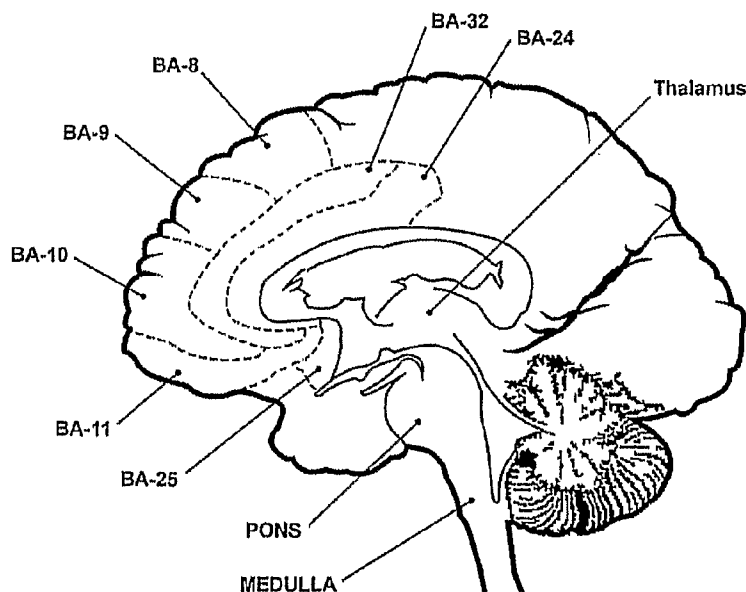
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) Title: SELECTIVE NERVE STIMULATION FOR THE TREATMENT OF EATING DISORDERS



(57) Abstract: A method and apparatus for treating persons suffering from an eating disorder includes direct or indirect stimulation of selected areas of the brain associated with a symptom of the eating disorder. The stimulation regimen is programmable to enable physician optimization of stimulation signal parameters to ameliorate at least one symptom of bulimia or another eating disorder. Certain embodiments employ deep brain stimulation and/or sensing together with cranial nerve stimulation and/or sensing.

WO 2007/018797 A2



Published:

— without international search report and to be republished upon receipt of that report

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.