



- (51) **International Patent Classification:**
A61F 9/00 (2006.01) A61F 9/02 (2006.01)
- (21) **International Application Number:**
PCT/US2008/085933
- (22) **International Filing Date:**
8 December 2008 (08.12.2008)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
11/954,864 12 December 2007 (12.12.2007) US
- (71) **Applicant (for all designated States except US):**
SYNAPSE RESEARCH COMPANY [US/US]; 7377
101 Street North, St. Paul, MN 55110 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** BURGIO, Paul, A. [US/US]; 7377 101 Street North, St. Paul, MN 55110 (US). SPURRILL, Anthony, T. [CA/US]; 4480 Erin Drive, Eagan, MN 55122 (US). BURGIO, David, J. [US/US]; 7377 101 Street North, St. Paul, MN 55110 (US).
- (74) **Agent:** KUPSTAS, Tod, A.; Knoble Yoshida & Dunleavy, LLC, 1628 John F. Kennedy Boulevard, Eight Penn Center, Suite 1350, Philadelphia, PA 19103 (US).
- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, LY, MA, MD, ME, 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, ST, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) **Date of publication of the international search report:**
27 August 2009

(54) **Title:** METHOD AND APPARATUS FOR PROVIDING AUTOMATIC EYE FOCUSED THERAPY

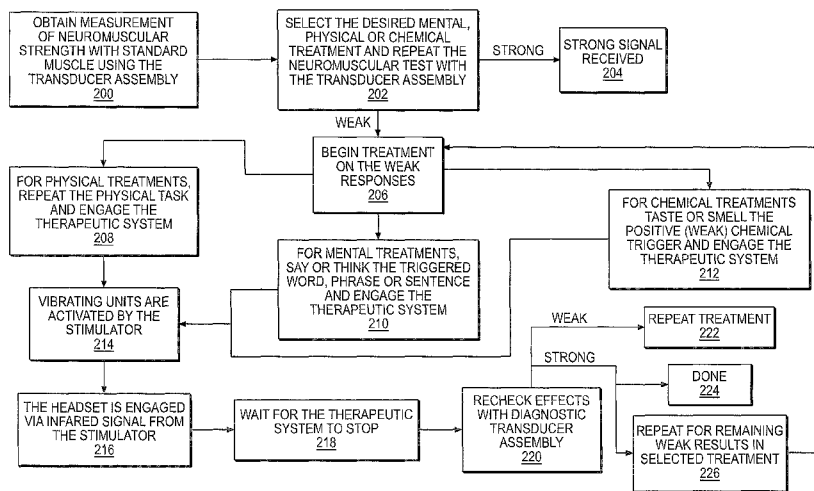


FIG. 9

(57) **Abstract:** A method and system for providing therapy to a patient. A headset can be used that automatically provides stimulation to the eyes. A stimulator device may be worn over the chest that provides tactile stimulation to the torso. A transducer assembly can be used to provide feedback data to a controller. The controller can analyze the received feedback data in order to update the lights and can dynamically alter the therapeutic display provided through the headset.

WO 2009/076314 A3

A. CLASSIFICATION OF SUBJECT MATTER*A61F 9/00(2006.01)i, A61F 9/02(2006.01)i*

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)

IPC : A61F 9/00

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 since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS(KIPO internal) "headset", "stimulator", "controller"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,461,297 B1 (PAGNACCO, GUIDO, et al.), 08 OCTOBER 2002 See Claims 1-20, Figures 1-7	11-22
A	US 5,956,124 A (DAN, JACOB), 21 SEPTEMBER 1999 See Claims 1-9, Figures 1-2	11-22
A	US 4,917,107 A (BELL, FLOYD R., et al.), 17 APRIL 1990 See Claims 1-8, Figures 1-7	11-22
A	US 6,267,721 B1 (WELLES, WILLIAM F.), 31 JULY 2001 See Claims 1-6, Figures 1-4	11-22

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

26 JUNE 2009 (26.06.2009)

Date of mailing of the international search report

26 JUNE 2009 (26.06.2009)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu,
Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, SANG SOO

Telephone No. 82-42-481-8648



Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 1-10
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1-10 pertain to methods for treatment of the human or animal body by therapy, as well as diagnostic methods, and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/085933

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6461297 B1	08.10.2002	None	
US 5956124 A	21.09.1999	AU 1998-96423 A1 WO 99-21474 A1	17.05.1999 06.05.1999
US 4917107 A	17.04.1990	US 4607643 A	26.08.1986
US 6267721 B1	31.07.2001	None	