(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

PCT

(43) International Publication Date 19 June 2008 (19.06.2008)

- (51) International Patent Classification: A61B 5/00 (2006.01)
- (21) International Application Number:

PCT/US2007/086879

(22) International Filing Date: 7 December 2007 (07.12.2007)

(25) Filing Language: English

(26) Publication Language: English

- (30) Priority Data: 60/873,663 9 December 2006 (09.12.2006) US 60/998,782 12 October 2007 (12.10.2007) US
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(10) International Publication Number WO 2008/073855 A3

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

[Continued on next page]

(54) Title: PLETHYSMOGRAPH VARIABILITY PROCESSOR

300 START 310 IDENTIFY A PLETH 320 CALCULATE PLOF PLETH 330 SAVE PI VALUE IN A FIRST BUFFER 335 NO BUFFER CRITERIA MET YES 340 SORT AND TRIM 350 CALCULATE PVI 360 STORE PVI VALUES IN A SECOND BUFFER 370 390 CALCULATE MEDIAN OF DISPLAY LAST CALCULATED MEDIAN PVI VIs IN SECOND BUFFER 380 **DISPLAY MEDIAN PVI** ¥

(57) Abstract: A plethysmograph variability processor inputs a plethysmograph waveform having pulses corresponding to pulsatile blood flow within a tissue site. The processor derives plethysmograph values based upon selected plethysmograph features, determines variability values, and calculates a plethysmograph variability parameter. The variability values indicate the variability of the plethysmograph features. The plethysmograph variability parameter is representative of the variability values and provides a useful indication of various physiological conditions and the efficacy of treatment for those conditions.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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

- before the expiration *f* the time limit for amending the claims and to be republished in the event *f* receipt *f* amendments
- (88) Date of publication of the international search report: 9 October 2008

INTERNATIONAL SEARCH REPORT

International application No PCT/US2007/086879

A. CLASSIFICATION OF SUBJECT MATTER INV . A61B5/00

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) A61B

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 practical, search terms used)

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