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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 October 2001 (11.10.2001)

PCT

(10) International Publication Number
WO 01/74248 A1

(51) International Patent Classification[7]: A61B 5/11

(21) International Application Number: PCT/DK00/00636

(22) International Filing Date:
15 November 2000 (15.11.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2000 00537 31 March 2000 (31.03.2000) DK

(71) Applicant *(for all designated States except US)*: **DANMETER A/S** [DK/DK]; Kildemosevej 13, DK-5000 Odense C (DK).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **JENSEN, Erik, Weber** [DK/ES]; Joan Coromines 37, ES-08395 San Pol De Mar (ES).

(74) Agent: **LARSEN & BIRKEHOLM A/S**; Skandinavisk Patentbureau, Banegårdspaldsen 1, DK-1570 Copenhagen V (DK).

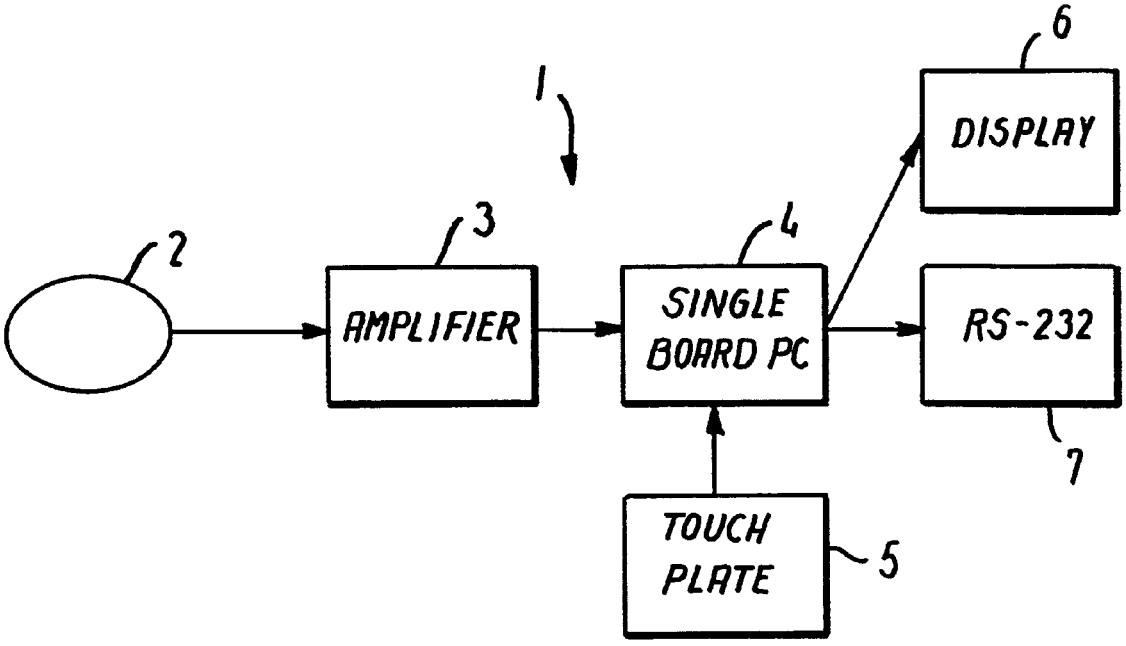
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

[Continued on next page]

(54) Title: MONITORING AUDITORY EVOKED POTENTIALS



(57) Abstract: A method and an apparatus for extracting signals which are indicative of the level of consciousness of a patient comprises subjecting the patient to a repetitive audio stimulus, monitoring AEP produced by the patient using an autoregressive model with exogenous input, and then calculating an index (AAI), which is displayed or used otherwise, indicative of the anaesthetic depth.

WO 01/74248 A1

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.