



- (51) **International Patent Classification:**
A61B 5/11 (2006.01) *A61B 3/113* (2006.01)
G08B 21/06 (2006.01)
- (21) **International Application Number:**
PCT/EP2013/070528
- (22) **International Filing Date:**
2 October 2013 (02.10.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12186967.1 2 October 2012 (02.10.2012) EP
13162466.0 5 April 2013 (05.04.2013) EP
13169837.5 30 May 2013 (30.05.2013) EP
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- (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, BN, BR, BW, BY,

BZ, CA, CH, CL, 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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

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))*

(54) **Title:** A MONITORING DEVICE FOR ANALYSING A SLEEP CONDITION

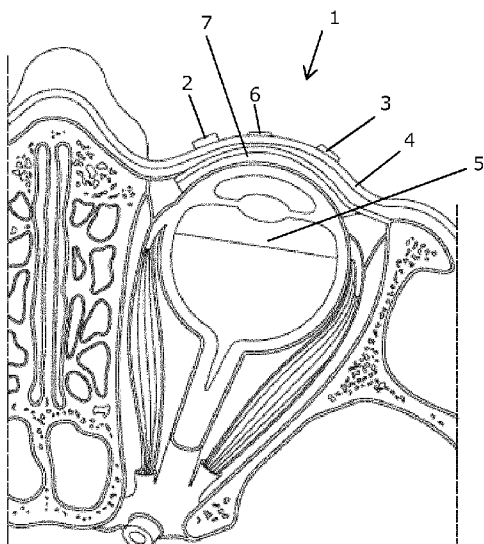


Fig. 1

(57) **Abstract:** The invention provides a monitoring device for analysing a sleep condition of an individual. The device comprises at least a first motion sensor, a second motion sensor, and a processor. The first and second motion sensors are adapted to be positioned at an eyelid of the individual and to communicate a movement signal representing eye movement to the processor. The processor is adapted from the movement signal to provide an identifier significant for the sleep condition. The device may further comprise a tension sensor arranged to provide a tension signal based on sensed muscle tension in the eyelid. The motion sensors may comprises gyroscopes, accelerometers, or strain sensors.