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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/079530 A3

(51) International Patent Classification:
G08B 1/08 (2006.01) *A61B 5/00* (2006.01)
G08B 21/00 (2006.01) *A61B 5/02* (2006.01)
G08B 23/00 (2006.01) *A61B 5/08* (2006.01)

(21) International Application Number:
PCT/US2005/005460

(22) International Filing Date:
18 February 2005 (18.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/546,695 18 February 2004 (18.02.2004) US

(71) Applicant *(for all designated States except US)*: **HOANA MEDICAL, INC.** [US/US]; 1001 Bishop Street, Suite 2828, Pacific Tower, Honolulu, HI 96813 (US).

(72) Inventors: **GENTRY, Jason, M.**; 1423 Stannage Avenue, Berkeley, CA 94701 (US). **GLEI, Matthew, S.**; 1446 Maloo Place, Honolulu, HI 96825 (US). **CHRISTENSEN, Scott, A.**; 5201 Blackhawk Drive, Danville, CA 94506 (US).

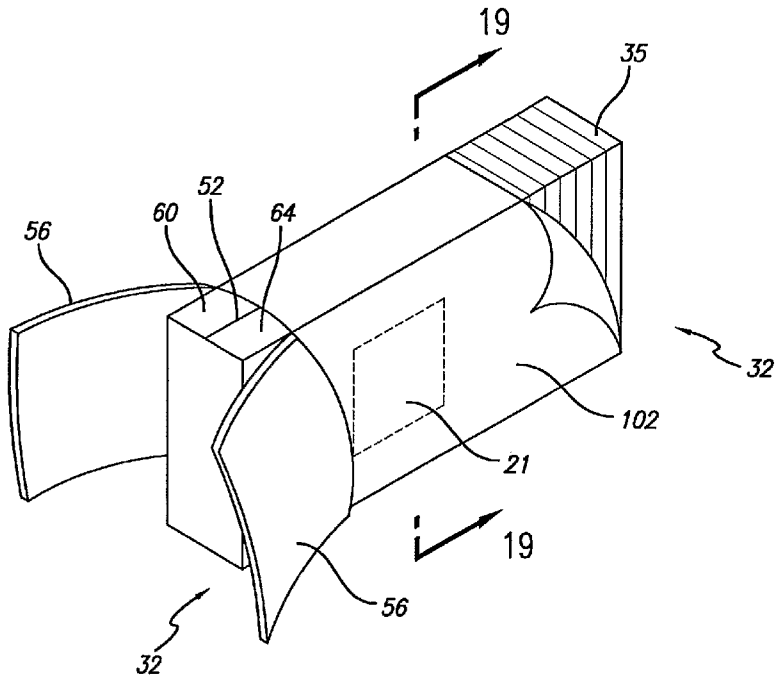
(74) Agents: **BAILEY, Craig, B.** et al.; Fulwider Patton Lee & Utecht, LLP, Howard Hughes Center, 6060 Center Drive, 10th Floor, Los Angeles, CA 90045 (US).

(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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR INTEGRATING A PASSIVE SENSOR ARRAY WITH A MATTRESS FOR PATIENT MONITORING



(57) Abstract: A system is provided for integrating a passive sensor or sensor array (21) into a patient's mattress (32) to support continuous passive monitoring of a patients' physiological conditions in a hospital setting. The sensor or sensor array (21) may be incorporated into the mattress by fixing it to a coverlet that surrounds the mattress (32), or by embedding it within the mattress core. Alternatively, the sensor or sensor array (21) may be fixed to an underlayer positioned between the mattress core and the coverlet.

WO 2005/079530 A3

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*

(88) Date of publication of the international search report:
7 December 2006

(48) Date of publication of this corrected version:
24 May 2007

(15) Information about Correction:
see PCT Gazette No. 21/2007 of 24 May 2007

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.