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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 June 2007 (21.06.2007)

PCT

(10) International Publication Number
WO 2007/070634 A3

(51) International Patent Classification:
H01M 8/04 (2006.01)

(21) International Application Number:
PCT/US2006/047694

(22) International Filing Date:
14 December 2006 (14.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/750,151 14 December 2005 (14.12.2005) US

(71) Applicant *(for all designated States except US)*: **WISPI.NET** [US/US]; 2804 Dover Road, Nw, Atlanta, Georgia 30327 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **MORRIS, Douglas Anthony** [US/US]; 6827 Sw Windemere Loop, Portland, Oregon 97225 (US). **KELLY, Dave** [US/US]; 2804 Dover Road Nw, Atlanta, Georgia 30327 (US). **KOHL, Paul, A.** [US/US]; 130 Cameron Glen Drive, Atlanta, Georgia 30328 (US). **HEINE, David** [US/US]; 3016 La Mancha Drive Nw, Albuquerque, New Mexico 87014 (US).

(74) Agent: **THOMPSON, John, R.**; One Utah Center, 201 So. Main Street, Suite 1100, Salt Lake City, Utah 84111 (US).

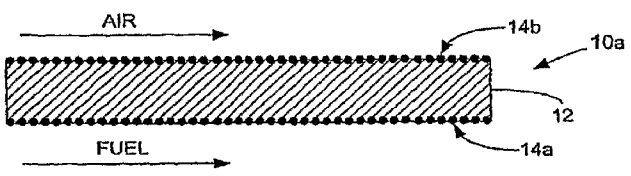
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, 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 of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
2 May 2008

(54) Title: INTEGRATED SELF CONTAINED SENSOR ASSEMBLY



(57) Abstract: A self-contained sensor assembly including a hybrid power module, a transceiver and one or more sensors or detectors. The hybrid power module of the sensor assembly includes a fuel cell and an electronic storage device that may be charged by the fuel cell.

WO 2007/070634 A3