



- (51) **International Patent Classification:**
G06F 17/40 (2006.01) *G06F 15/16* (2006.01)
- (21) **International Application Number:**
PCT/SG2014/000004
- (22) **International Filing Date:**
10 January 2014 (10.01.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/769,008 25 February 2013 (25.02.2013) US
- (71) **Applicant:** BIOMACHINES PTE LTD [SG/SG]; Block 71 Ayer Rajah Crescent, #07-05 Singapore 139951 (SG).
- (72) **Inventors:** WEI YANGSHENG, Vincent; Block 71, Ayer Rajah Crescent, #07-05, Singapore 139951 (SG). TAN, Eng Hwa; Block 71, Ayer Rajah Crescent, #07-05, Singapore 139951 (SG). YEO, Hwea Jie Sven; Block 71, Ayer Rajah Crescent, #07-05, Singapore 139951 (SG). YONG, Keen Mun Kelvin; Block 71, Ayer Rajah Crescent, #07-05, Singapore 139951 (SG).
- (74) **Agent:** SYNERGY IP PTE. LTD.; 9 Temasek Boulevard, #09-01, Suntec Tower Two, Singapore 038989 (SG).

(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, IR, 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.

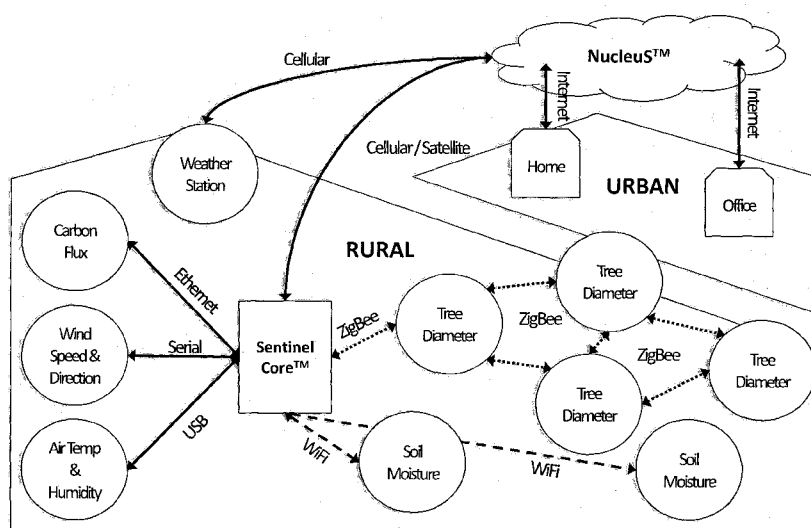
(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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).

Published:

— with international search report (Art. 21(3))

(54) **Title:** DATA LOGGER AND SENTINEL PLATFORM FOR SENSOR NETWORK

Fig. 10



(57) **Abstract:** A data logger that comprises a central processing unit for signal processing, a memory device connected to the central processing unit for storing the data, an electronic circuit connected to both the central processing unit and the memory device, and a power supply further connected to the electronic circuit for providing electricity to the data logger. The electronic circuit comprises a universal interface for connecting different types of sensors via various communication modes. A Sentinel Platform comprises the data logger, a base station having a microcontroller connected to the data logger for data processing, and a data storage device connected to the data logger, the microcontroller or both for data storage.