

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
15 January 2009 (15.01.2009)

PCT

(10) International Publication Number  
WO 2009/009713 A3

- (51) International Patent Classification:  
G06F 11/00 (2006.01)
- (21) International Application Number:  
PCT/US2008/069739
- (22) International Filing Date: 11 July 2008 (11.07.2008)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
11/777,235 12 July 2007 (12.07.2007) US
- (71) Applicant (for all designated States except US): QUALCOMM Incorporated [US/US]; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SIXT, Fred Warner [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). RAM, Satish N. [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

- (74) Agent: PATEL, Ashish L.; 5775 Morehouse Drive, San Diego, California 92121 (US).
- (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, BR, BW, BY, BZ, CA, CH, 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, KM, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AN APPARATUS AND METHOD FOR MEASURING OPERATIONAL DATA FOR EQUIPMENT USING SENSOR BREACH DURATIONS

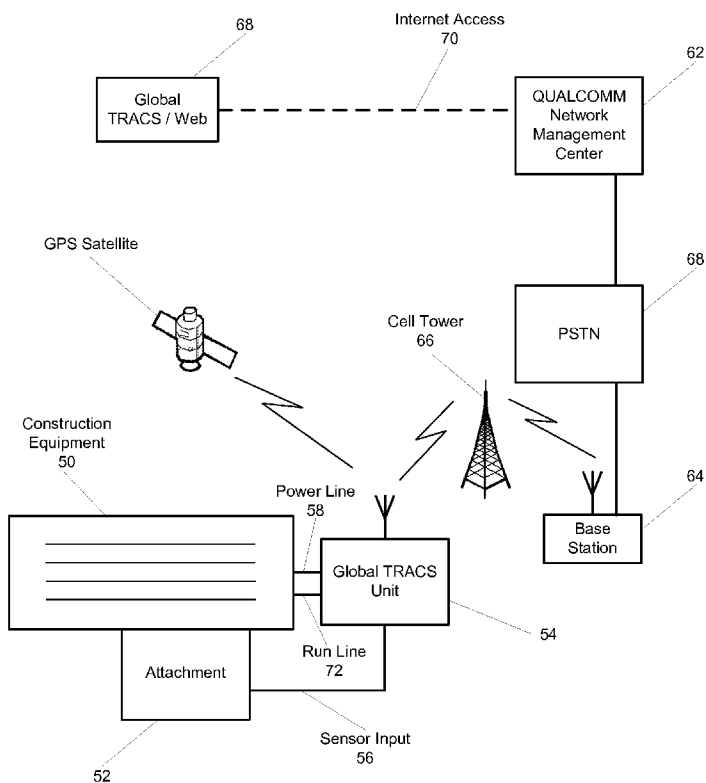


FIG. 1

(57) Abstract: A wireless equipment management system that is configured to track sensors for work measurement for predetermined events. The sensors are configured to measure event durations of a specific piece of equipment as defined by a user and sent to a Network Management Center. This enables the user to measure work times by configuring work events as sensor input events. The event durations can be displayed and reports can be produced at the Network Management Center.

WO 2009/009713 A3



**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

**Published:**

- *with international search report*

**(88) Date of publication of the international search report:**

5 March 2009

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US2008/069739

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - G06F 11/00 (2008.04) USPC - 702/188 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC(8) - G06F 11/00 (2008.04) USPC - 702/188 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase, MicroPatent		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X <hr/> Y	US 2005/0256681 A1 (BRINTON et al) 17 November 2005 (17.11.2005) entire document	1-7, 10-18, 21 <hr/> 8, 9, 19, 20
Y	US 6,892,131 B2 (COFFEE et al) 10 May 2005 (10.05.2005) entire document	8, 9, 19, 20
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 16 December 2008		Date of mailing of the international search report <p align="center" style="font-size: 1.2em;">14 JAN 2009</p>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774