

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 April 2006 (06.04.2006)

PCT

(10) International Publication Number
WO 2006/036780 A3

(51) International Patent Classification:
G08B 23/00 (2006.01) H03K 17/00 (2006.01)
G08C 15/06 (2006.01) H04L 12/56 (2006.01)
G08C 19/20 (2006.01) G06F 11/32 (2006.01)

(72) Inventors; and
(75) Inventors/Applicants (for US only): SCOGGINS, Sean, M. [US/US]; 1406 Lyon Street, Raleigh, NC 27608 (US). MILLS, Stuart [US/US]; 1106 Oakgrove Drive, Knightdate, NC 27545 (US). MASON, Robert, T. [US/US]; 5408 Woodsnipe Drive, Raleigh, NC 27604 (US). BORLESKE, Andrew, J. [US/US]; 142 Roan Drive, Garner, NC 27529 (US). SMITH, Kathryn, J. [US/US]; 3105 E. Folkestone Place, Raleigh, NC 27604 (US). RUDRAN, Dileep [IN/US]; 408 Burgwin Wright Way, Cary, NC 27519 (US).

(21) International Application Number:
PCT/US2005/034119

(22) International Filing Date:
23 September 2005 (23.09.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/948,929 24 September 2004 (24.09.2004) US

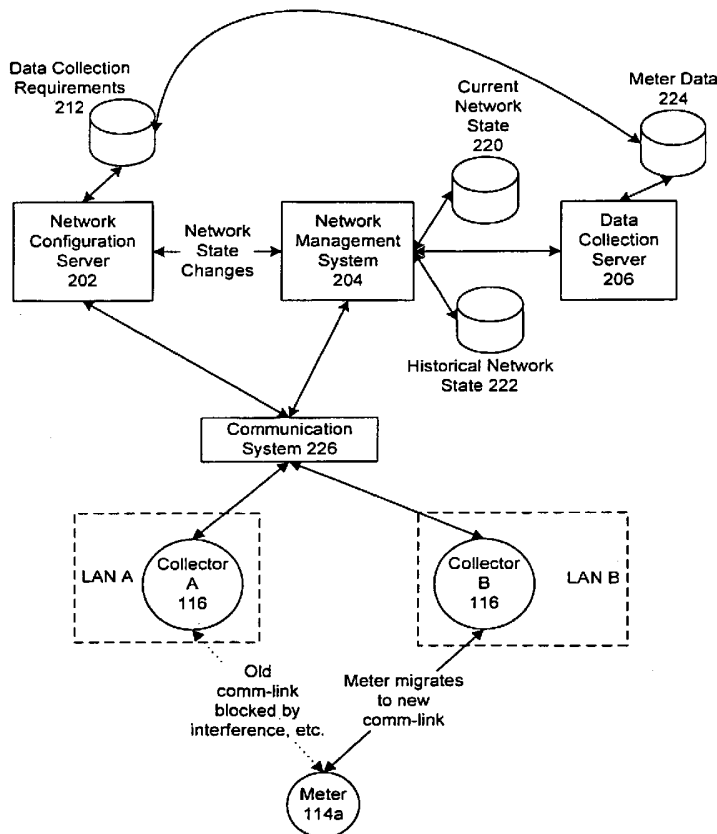
(74) Agents: SAMUELS, Steven, B. et al.; Woodcock Washburn LLP, One Liberty Place - 46th Floor, Philadelphia, PA 19103 (US).

(71) Applicant (for all designated States except US): ELSTER ELECTRICITY, LLC [US/US]; 208 South Rogers Lane, Raleigh, NC 27610 (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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY,

[Continued on next page]

(54) Title: SYSTEM FOR AUTOMATICALLY ENFORCING A DEMAND RESET IN A FIXED NETWORK OF ELECTRICITY METERS



(57) Abstract: Methods and systems of enforcing a demand reset in a meter (114a) that communicates via a wireless network. When billing data is received by a server (206), it is accompanied by a demand reset counter. The counter is compared to a counter stored on the server (206). If they received counter is less than the server counter, it is determined that the meter (114a) missed a demand reset. The server (202) then instructs the meter (114a) to perform a demand reset to ensure that accurate demand data is received by the server (206).

WO 2006/036780 A3



MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, 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, 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:

18 May 2006

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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/34119

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G08B 23/00;G08C 15/06,19/20;H03K 17/00;H04L 12/56;G06F 11/32

USPC: 340/870.02,870.03,2.23;702/61

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 340/870.02, 870.03, 2.23; 702/61

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)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 2005/0068194 A1 (SCHLEICH et al) 31 March 2005 (31.03.2005), see entire document.	1-17
X,E	US 2005/0240540 A1 (BORLESKE et al) 27 October 2005 (27.10.2005) see entire document.	1-17
A	US 6,801,865 B2 (GILGENBACH et al) 05 October 2004 (05.10.2004), see entire document.	1-17
A	US 6,735,630 B1 (GELVIN et al) 11 May 2004 (11.05.2004), see entire document.	1-17
Y,E	US 2004/0113810 A1 (MASON, JR. et al) 17 June 2004 (17.06.2004), see entire document.	1-17

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>
---	---

Date of the actual completion of the international search
01 March 2006 (01.03.2006)

Date of mailing of the international search report

24 MAR 2006

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

Authorized officer

Michael Horabik

Telephone No. 703/805-4700

Facsimile No. (571) 273-3201

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/34119

Continuation of B. FIELDS SEARCHED Item 3:

EAST

(see search notes)