

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
13 December 2007 (13.12.2007)

PCT

(10) International Publication Number  
**WO 2007/142587 A3**

(51) International Patent Classification:  
*G01D 4/00* (2006.01) *G01R 22/00* (2006.01)

(21) International Application Number:  
PCT/SE2007/000558

(22) International Filing Date: 8 June 2007 (08.06.2007)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:  
0601263-7 8 June 2006 (08.06.2006) SE  
0601264-5 8 June 2006 (08.06.2006) SE  
0601262-9 8 June 2006 (08.06.2006) SE

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, 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, MT, 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).

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

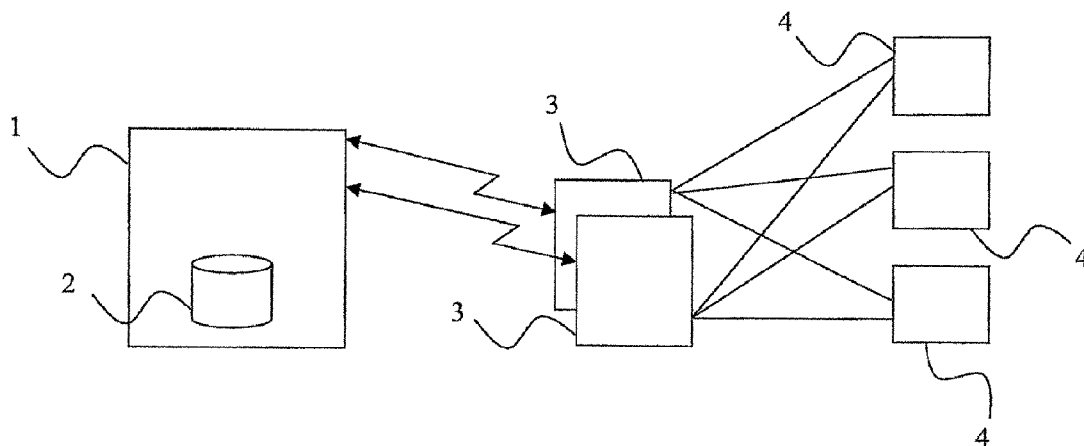
**Published:**

- 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:  
31 January 2008

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.

(54) Title: SYSTEM FOR POWER LINE COMMUNICATION



(57) Abstract: The present invention relates to a system for power line communication that comprises: a plurality of measuring units (4), a plurality of concentrators (3) and a central processing unit (1). Each of the plurality of measuring units (4) communicates measurement data to the central processing unit (1) via one of the plurality of concentrators (3) and communication between a measuring unit and a concentrator is carried out via the power line. In addition, each measuring unit (4) selects which concentrator (3) it communicates via out of the plurality of concentrators (3) and each concentrator (3) selects the communication parameters with which the measuring unit and the respective concentrator communicate.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE2007/000558

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: see extra sheet

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)

IPC: G01D, G01R, H02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6885309 B1 (VAN HETEREN, J G), 26 April 2005 (26.04.2005), column 1, line 20 - line 55; column 2, line 3 - line 10; column 3, line 10 - line 60, column 5, line 9 - line 55; column 6, line 25 - line 57; column 7, line 5 - line 10, figure 1, claims 1-11, abstract --	1-10
X	WO 2003055031 A3 (ENEL DISTRIBUZIONE S.P.A.), 3 July 2003 (03.07.2003), page 1, line 5 - line 10; page 3, line 20 - line 25; page 4, line 15 - line 30, page 7, line 12 - line 25; page 8, line 20 - line 30; page 16 - page 21; page 10, line 10 - line 20; page 13, claims 1-23, abstract --	1-10

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Date of the actual completion of the international search

23 November 2007

Date of mailing of the international search report

27-11-2007

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International application No.

PCT/SE2007/000558

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6509841 B1 (COLTON, L J ET AL), 21 January 2003 (21.01.2003), column 2, line 5 - line 12; column 2, line 60 - line 67; column 4, line 13 - line 42, column 5, line 1 - 30; column 6, line 5 - line 40, claims 1-7, abstract  --	1-10
A	WO 2004044862 A1 (BLUEMAX COMMUNICATION CO., LTD), 27 May 2004 (27.05.2004), abstract  -- -----	1-10

**International patent classification (IPC)****G01D 4/00** (2006.01)**G01R 22/00** (2006.01)**Download your patent documents at [www.prv.se](http://www.prv.se)**

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Cited literature, if any, will be enclosed in paper form.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
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