

(51) International Patent Classification:
G08C 17/02 (2006.01)(21) International Application Number:
PCT/US2011/041952(22) International Filing Date:
27 June 2011 (27.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/836,634 15 July 2010 (15.07.2010) US(71) Applicant (for all designated States except US): **JONES GROUP FORENSIC ENGINEERS** [US/US]; 305 Lost Creek Drive, Kennesaw, GA 30152 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **JONES, David** [US/US]; 305 Lost Creek Drive, Kennesaw, GA 30152 (US).(74) Agent: **BOCKHOP, Bryan**; 2375 Mossy Branch Dr., Snellville, GA 30078 (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, 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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

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

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
12 April 2012

(54) Title: BUSWAY JOINT PARAMETER DETECTION SYSTEM

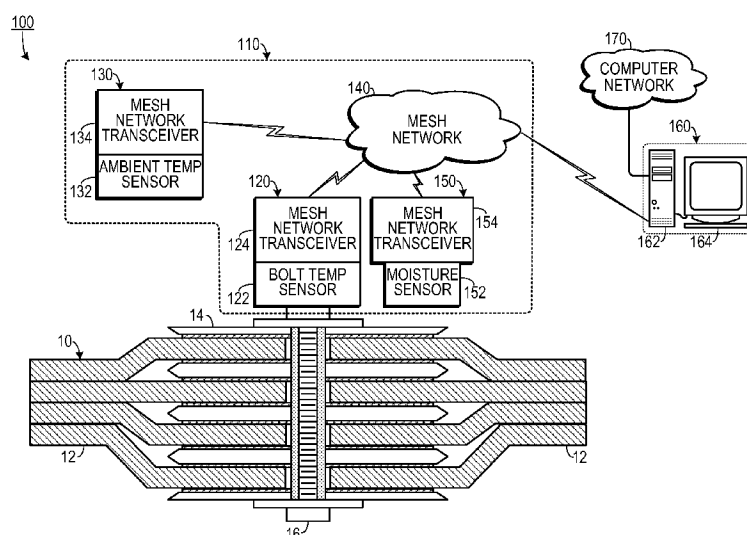


FIG. 1

(57) **Abstract:** A system (100) for detecting an improperly secured busway joint (14) in an electrical distribution busway includes a busway joint parameter sensor (122), a transmission circuit (140) and a remote computer (160). The busway joint parameter sensor (122) is disposed so as to sense a selected parameter of the busway joint (14). The transmission circuit (140) is in data communication with the busway joint parameter sensor (122) and is configured to transmit real time busway joint parameter data. The remote computer (160) is in data communication with the transmission circuit (140) and is configured to present an indication upon detection of abnormal real time busway joint parameter data.

A. CLASSIFICATION OF SUBJECT MATTER**G08C 17/02(2006.01)i**

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)

G08C 17/02; H04W 4/22; G08B 25/04; G06Q 50/00; G08B 25/00; G01M 19/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: Sensor, Transmission, Remote

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2005-518538 A (SEKOS, INC.) 23 June 2005 See abstract, figures 1-5, claims 1, 25	1, 8-15, 22, 23 2-7, 16-21, 24
A	KR 10-2006-0069639 A (KOREA MAINTENANCE & CONTROL CO., LTD.) 22 June 2006 See abstract, figures 1, 2, claims 1-13	1-24
A	JP 2004-005482 A (ASAHI CHUO CO., LTD.) 08 January 2004 See abstract, figures 1-3, claims 1-6	1-24
A	KR 10-2009-0021239 A (INGSTEL CO., LTD.) 02 March 2009 See abstract, figure 1, claims 1, 2	1-24



Further documents are listed in the continuation of Box C.



See patent family annex.

* 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 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

13 FEBRUARY 2012 (13.02.2012)

Date of mailing of the international search report

17 FEBRUARY 2012 (17.02.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 189 Cheongsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

BAEK, Yang Gyu

Telephone No. 82-42-481-5392



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/041952

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2005-518538 A	23.06.2005	AU 2003-216334 A1	09.09.2003
		CA 2477036 A1	04.09.2003
		EP 1478910 A2	24.11.2004
		IL 163654D0	18.12.2005
		JP 2005-518538 T	23.06.2005
		KR 10-2004-0091059 A	27.10.2004
		MX PA04007843A	18.10.2005
		US 2003-0154786 A1	21.08.2003
		US 2005-0125197 A1	09.06.2005
		US 2008-0059086 A1	06.03.2008
		US 6807862 B2	26.10.2004
		US 7228240 B2	05.06.2007
		WO 03-073071 A2	04.09.2003
		WO 03-073071 A3	04.09.2003
		WO 03073071A2	04.09.2003
		WO 03073071A3	22.01.2004
KR 10-2006-0069639 A	22.06.2006	None	
JP 2004-005482 A	08.01.2004	JP 3739754 B2	25.01.2006
KR 10-2009-0021239 A	02.03.2009	None	