



- (51) International Patent Classification:  
G08B 21/00 (2006.01)
- (21) International Application Number:  
PCT/US2009/038059
- (22) International Filing Date:  
24 March 2009 (24.03.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
61/064,733 24 March 2008 (24.03.2008) US
- (71) Applicant (for all designated States except US): FREDERICK MINING CONTROLS, LLC [US/US]; 1769B Jeff Road, Huntsville, AL 35806 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FREDERICK, Larry, D. [US/US]; 380 Dupree Drive, Huntsville, AL 35806 (US). MEDLEY, Dwight [US/US]; 29 Raby Road, Fayetteville, TN 37334 (US).
- (74) Agent: GREGORY, Donald, A.; Dickstein, Shapiro LLP, 1825 Eye Street, NW, Washington, DC 20006-5403 (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, MK, 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).

Published:

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

- (88) Date of publication of the international search report:  
30 December 2009

(54) Title: ELECTROMAGNETIC FIELD ADJUSTMENT FOR PROXIMITY DETECTION

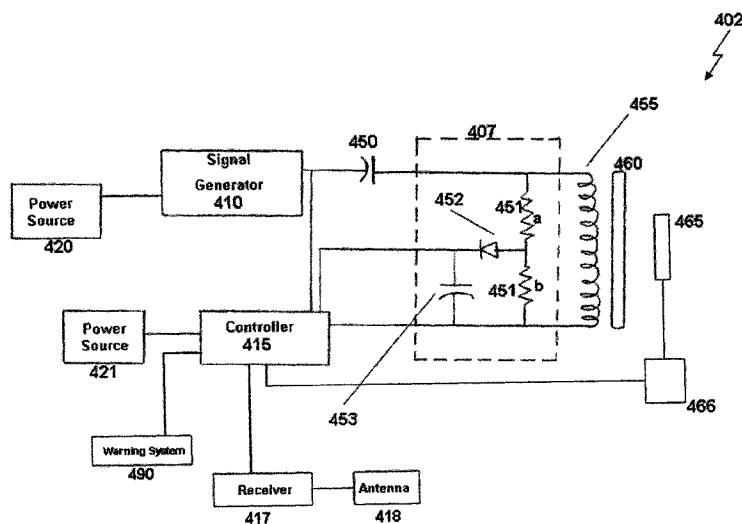


FIG. 5

(57) Abstract: Embodiments described herein relate to a methods and apparatus for optimizing and calibrating a magnetic field generator. In various embodiments, the magnetic field generator includes a signal generator for outputting a voltage and a magnetic field generating circuit including a shunt that may be used to change a value of inductance in the magnetic field generating circuit.

WO 2009/120671 A3

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/038059

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - G08B 21/00 (2009.01) USPC - 340/686.6 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) - G08B 21/00 (2009.01) USPC - 340/686.6 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) MicroPatent, Google Patent, Google		
<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 ----- Y	US 2006/0087443 A1 (FREDERICK et al) 27 April 2006 (27.04.2006) entire document	28, 30 ----- 1-27, 29
Y	US 3,064,257 A (GUEST) 13 November 1962 (13.11.1962) entire document	1-27, 29
Y	US 2,957,115 A (CLARK) 18 October 1960 (18.10.1960) entire document	5, 14, 21, 23, 25
Y	US 2003/0227268 A1 (SMITH) 11 December 2003 (11.12.2003) entire document	25
Y	US 4,818,855 A (MONGEON et al) 04 April 1989 (04.04.1989) entire document	6
A	US 6,724,191 B1 (LARSEN) 20 April 2004 (20.04.2004) entire document	1-30
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
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Date of the actual completion of the international search 27 May 2009		Date of mailing of the international search report <b>09 JUN 2009</b>
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