

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 October 2006 (05.10.2006)

PCT

(10) International Publication Number
WO 2006/105100 A3

(51) International Patent Classification:
G08B 13/14 (2006.01)

(21) International Application Number:
PCT/US2006/011302

(22) International Filing Date: 28 March 2006 (28.03.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/666,242 28 March 2005 (28.03.2005) US
11/000,000 21 March 2006 (21.03.2006) US

(71) Applicant (for all designated States except US): **WG SECURITY PRODUCTS, INC.** [US/US]; 3031 Tisch Way, Suite 602, San Jose, California 95128 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **YANG, Xiao Hui** [CN/US]; 7926 Mccellan Road, #3, Cupertino, California 95014 (US).

(74) Agent: **ABRAHAMS, Colin, P.**; Law Office of Colin P. Abrahams, 5850 Canoga Avenue, Suite 400, Woodland Hills, California 91367 (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, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, 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).

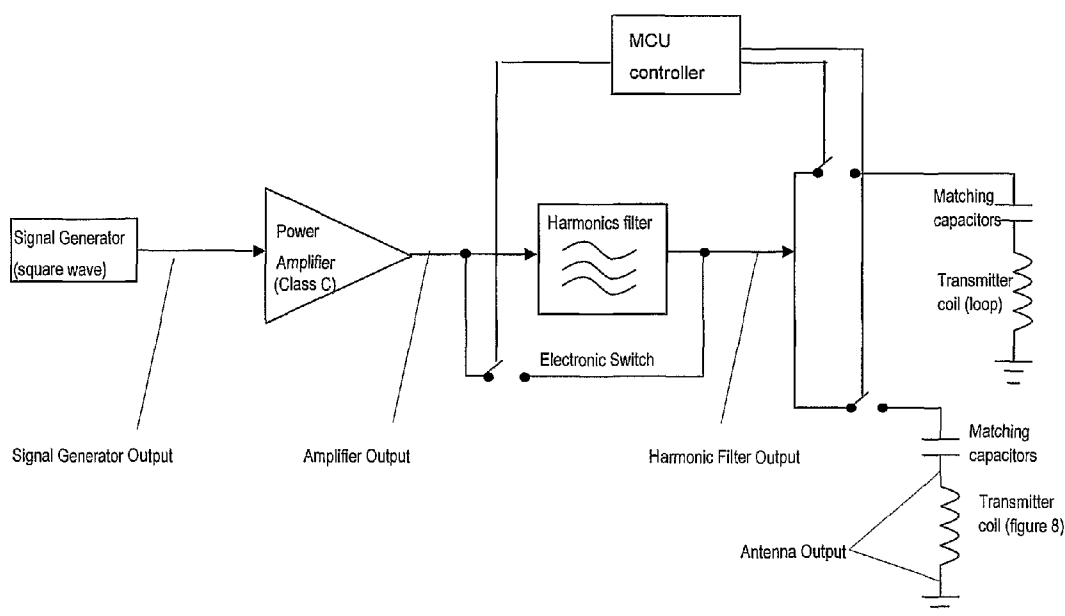
Published:

- 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:
25 October 2007

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: SUPPRESSION OF EMI RADIATION IN EAS SYSTEM



(57) Abstract: An electronic article surveillance system (EAS) comprises a transmitter and a receiver. An amplifier is associated with the transmitter whereby non-linear signals are generated. A filter is provided for filtering the transmitted signal to reduce the strength of the harmonic content of the transmitted signal. A switch bypasses the filtering and turns off the transmitter to shorten ringing transient duration of the transmitted signal and thereby reduce interference at the receiver.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/11302

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G08B 13/14**(2006.01)

USPC: 340/572.2

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. : 340/572.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,675,657 (WEAVER) 23 June 1987 (23.06.1987) see entire document.	1-18
X	US 7,148,804 B2 (SALESKY et al.) 121 December 2006 (12.12.2006), see entire document.	1-18
X	US 5,239,686 (DOWNEY) 24 August 1993 (24.08.1993), see entire document.	1-18

☐ 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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
06 August 2007 (06.08.2007)

Date of mailing of the international search report

28 AUG 2007

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

Daniel J Wu

Telephone No. 571-272-2600

Jacqueline A. Whitfield
Special Project Asst.