

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 June 2006 (08.06.2006)

PCT

(10) International Publication Number
WO 2006/060245 A3

(51) International Patent Classification:
H04H 1/00 (2006.01)

(21) International Application Number:
PCT/US2005/042378

(22) International Filing Date:
22 November 2005 (22.11.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/001,436 30 November 2004 (30.11.2004) US

(71) Applicant (for all designated States except US): **SYMBOL TECHNOLOGIES, INC.** [US/US]; One Symbol Plaza, Ms A-6, Holtsville, NY 11742-1300 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FUCCELLO, James, R.** [US/US]; 130 Winges Avenue, Patchogue, NY 11772 (US). **ORLASSINO, Mark** [US/US]; 208A Oxhead Road, Centereach, NY 11770 (US).

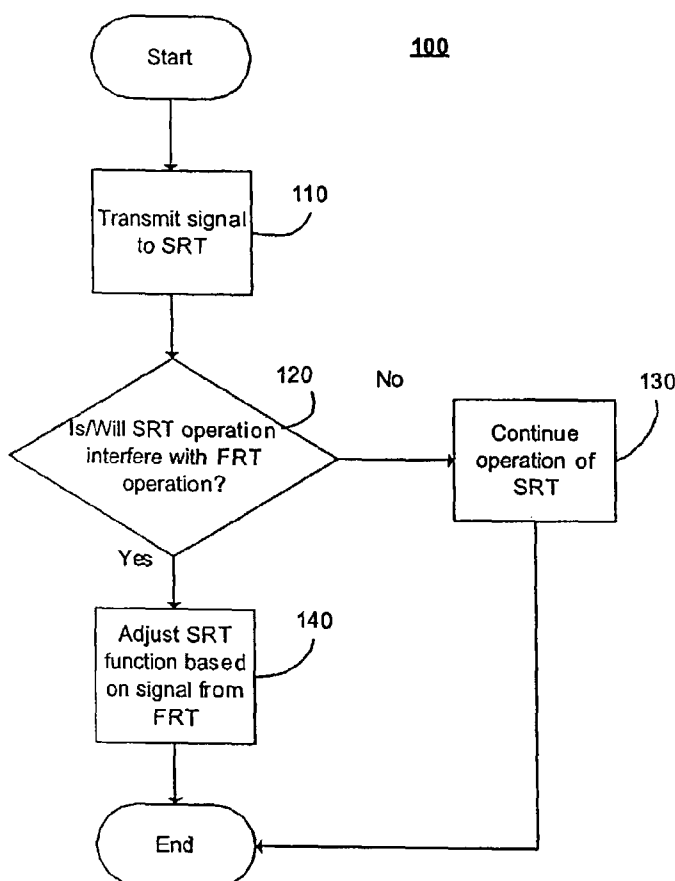
(74) Agents: **KAPLUN, Oleg, F.** et al.; 150 Broadway, Suite 702, New York, NY 10038 (US).

(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).

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR COHESIVE RADIO OPERATION



(57) Abstract: Described is a system which includes a first radio transceiver operating in accordance with a first communication protocol and a second radio transceiver operating in accordance with a second communication protocol. The first radio transceiver transmits a first signal to the second transceiver, the first signal including data related to operation of the first radio transceiver. The second radio transceiver adjusts operation as a function of the data.

WO 2006/060245 A3

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations 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, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (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 patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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:

11 January 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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/42378

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04B 7/00**(2006.01);**H04Q 7/24**(2006.01),**7/00**(2006.01)

USPC: 370/338,465;455/437,509

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. : 370/338,465;455/437,509

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)
APS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/0084383 A1 (IBRAHIM et al) 20 April 2006, entire document.	1-25
X	US2005/0025104 A1 (FISCHER et al.) 03 February 2005, entire document.	1-25
X	US 7,046,649 B2 (AWATER et al.) 16 May 2006, entire document.	1-25
X	US 6,895,255 B1 (BRIDGELALL) 17 may 2005, entire document.	1-25
X	US 7,039,358 B1 (SHELLHAMMER et al.) 02 May 2006, entire document.	1-25
X	US 6,590,928 B1 (HAARTSEN) 08 July 2003, entire document.	1-25
X	US 2005/0059347 A1 (HAARTSEN) 17 March 2005, entire document.	1-25

☒ 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

"P" document published prior to the international filing date but later than the priority date claimed

"&"

document member of the same patent family

Date of the actual completion of the international search

10 October 2006 (10.10.2006)

Date of mailing of the international search report

09 NOV 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

Facsimile No. (571) 273-3201

Authorized officer

Wellington Chif

Telephone No. 571-272-2600

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US05/42378**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,099,680 B2 (RODERIQUE) 29 August 2006, entire document.	1-25
X	US 6,326,926 B1 (SHOOBRIDGE et al.) 04 December 2001, entire document.	1-25
X	US 6,006,099 (RONDEAU et al.) 21 December 1999, entire document.	1-25
X	US 7,039,031 B1 (JOERESSEN) 02 May 2006, entire document	1-25