(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 December 2007 (06.12.2007)

PCT

(10) International Publication Number
WO 2007/139665 A3

(51) International Patent Classification:
H04Q 5/22 (2006.01)

(21) International Application Number:
PCT/US2007/011163

(22) International Filing Date: 9 May 2007 (09.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/440,094 25 May 2006 (25.05.2006) US

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

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **SOLEIMANI, Mohammad** [US/US]; 12413 Falconbridge Drive, Gaithersburg, MD 20878 (US).

(74) Agents: **SOKOHL, Robert, E.** et al.; Sterne, Kessler, Goldstein & Fox P.L.L.C., 1100 New York Avenue, N.W., Washington, DC 20005-3934 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, 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, 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, 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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

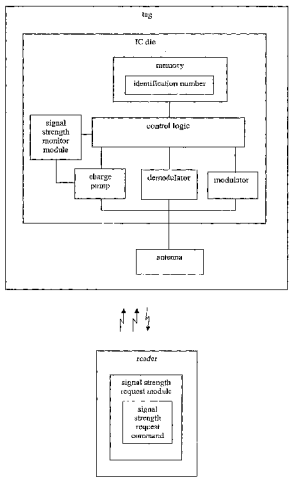
Published:

— *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 September 2008

(54) Title: RFID TAG WITH PROGRAMMABLE READ RANGE



(57) Abstract: A system and method in a radio frequency identification (RFID) tag (102, 420, 600) for responding to RFID reader communication signals is described. A strength of a signal from a reader (104, 430) is measured. A RFID read signal is received from the reader (104). A response to the read signal is enabled based on the measured strength.

WO 2007/139665 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US07/11163

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **H04Q 5/22**(2006.01)

USPC: 340/10.1,10.33,10.41,572.1
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. : 340/10.1,10.33,10.41,572.1

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)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P --- Y, P	US 2006/0187046 A1 (KRAMER) 24 August 2006 (24.08.2006), paragraphs 29, 40, 45-50 and 54.	1-10 and 13 ---------- 11-12, 14-29
X --- Y	US 7,030,731 B2 (LASTINGER et al) 18 April 2006 (18.04.2006), Figs. 3-4, col. 4, l. 52-col. 5, l. 7, l. 20-27, col. 8, l. 58- col. 9, l. 22.	1-4, 8, 12-15, 29 ---------- 16, 25
Y	US 6,285,342 B1 (BRADY et al) 4 September 2001 (04.09.2001), col. 2, lines 9-12.	16

☐ 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 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 another 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
20 May 2008 (20.05.2008)

Date of mailing of the international search report
22 JUL 2008

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
Hofsass Jeffery

Telephone No. 571-272-4550

Form PCT/ISA/210 (second sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US07/11163

Continuation of B. FIELDS SEARCHED Item 3:
EAST: RFID, RF, radio, tag, measuring, indicating, signal strength, rssi, substrate, integrated citcuit, ic, modulator, demodulator.