

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/053304 A3

(51) International Patent Classification:
H04Q 7/20 (2006.01)

(US). **KEZYS, Vytautas, Robertas** [CA/CA]; 24 Hackney Court, Hamilton, Ontario L9K 1M3 (CA).

(21) International Application Number:
PCT/US2004/039025

(74) **Agent: OSKOREP, John, J.**; One Magnificent Mile Center, 980 North Michigan Avenue, Suite 1400, Chicago, IL 60611 (US).

(22) International Filing Date:
19 November 2004 (19.11.2004)

(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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/523,515 19 November 2003 (19.11.2003) US

(71) **Applicant** (*for all designated States except US*): **RESEARCH IN MOTION LIMITED** [CA/CA]; 295 Phillip Street, Waterloo, Ontario N2L 3W8 (CA).

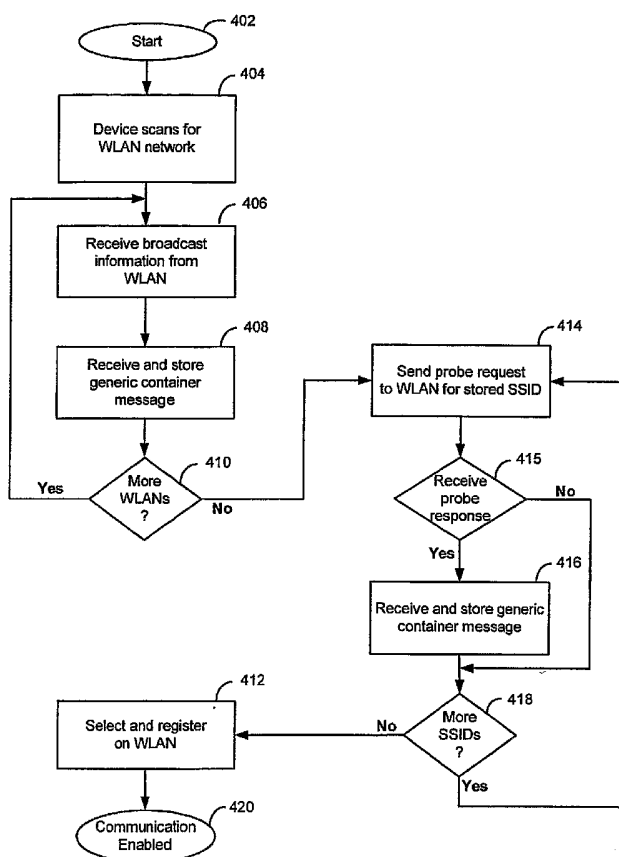
(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

(72) **Inventors; and**

(75) **Inventors/Applicants** (*for US only*): **BUCKLEY, Adrian** [US/US]; 990 Woodson Lane, Brentwood, CA 94513

[Continued on next page]

(54) **Title:** METHODS AND APPARATUS FOR PROVIDING NETWORK BROADCAST INFORMATION TO WLAN ENABLED WIRELESS COMMUNICATION DEVICES



(57) **Abstract:** A method of providing network broadcast information to a wireless device from a wireless local area network (WLAN) includes the steps of receiving, from one or more available cellular networks or a network database, cellular network broadcast information associated with the one or more available cellular networks; providing the cellular network broadcast information in a generic container message which varies in content and format according to one or more cellular standards associated with the one or more available cellular networks; and causing the generic container message to be regularly broadcasted for receipt and use by a wireless device. Alternatively, the steps include regularly broadcasting a network interworking indicator which indicates whether cellular network broadcast information is available for receipt from the WLAN; receiving a probe request from a wireless device; and causing the cellular network broadcast information to be sent to the wireless device in the generic container message.

WO 2005/053304 A3



FR, GB, GR, HU, IE, IS, IT, LU, 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).

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.

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:

17 August 2006

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39025

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04Q 7/20**(2006.01)

USPC: 370/338;455/466,435.2

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. : 370/338;455/466,435.2

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)
EAST; WLAN, broadcast, interwork

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,393,261 (LEWIS) 21 May 2002 (21.05.2002), Figures 1,2 and 7; column 2, lines 12-43; column 4, lines 29-51; column 9, lines 54-67; column 10, lines 1-25; column 11, lines 39-58.	1,2,4,5,9-13,15-17,19,22-31,34-40,42,45,47,48,50-52
Y	US 2002/0136226 A1 (CHRISTOFFEL et al) 26 September 2002 (26.09.2002) Figure 16, page 13, paragraph 133	3,6-8,14,18,20,21,32,33,41,43,44,49
A	US 2003/0134650 A1 (SUNDAR et al) 17 July 2003 (17.07.2003) page 2, paragraphs 20-23)	1-53
A	US 2002/0191575 A1 (KALAVADE et al) 19 December 2002 (19.12.2002), page 1, paragraphs 13-16	1-53
A	US 5,796,727 (HARRISON et al) 18 August 1998 (18.08.1998), Figure 2, column 3, lines 23-31	1-53

☐ 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

09 May 2006 (09.05.2006)

Date of mailing of the international search report

06 JUL 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

Rhonda Murphy

Telephone No. (571) 272-3185