

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/060669 A3

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

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(21) International Application Number:
PCT/US2004/042368

(22) International Filing Date:
20 December 2004 (20.12.2004)

(25) Filing Language: English

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(26) Publication Language: English

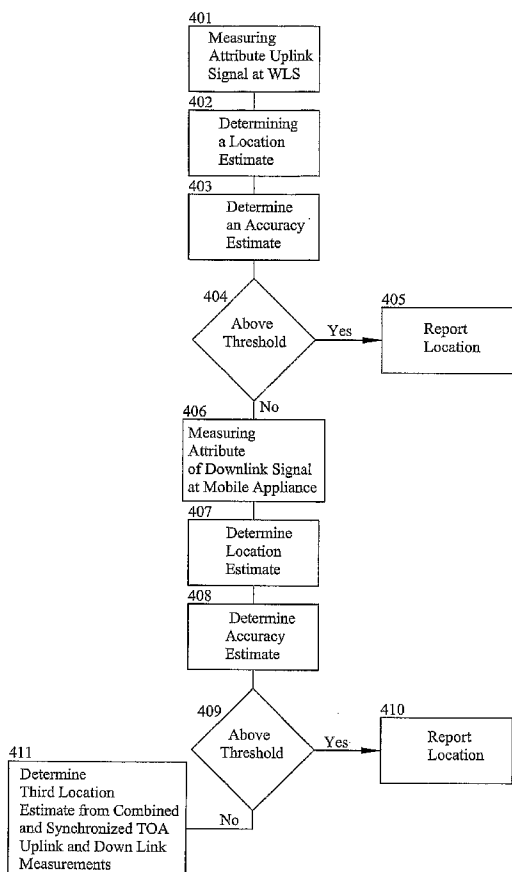
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

(30) Priority Data:
60/530,638 19 December 2003 (19.12.2003) US

[Continued on next page]

(54) Title: E-OTD AUGMENTATION TO U-TDOA LOCATION SYSTEM

(57) Abstract: A method for use in a wireless communication system with a network overlay geolocation system having a sparse deployment network in which base stations of the wireless communication system may or may not have a co-located wireless location sensor (WLS). The method uses U-TDOA measurements on the uplink (reverse) signal and E-OTD measurements on the downlink (forward) signals to estimate a location for a mobile appliance.



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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, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, 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).

(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),

Published:

— *with international search report*

(88) Date of publication of the international search report:
27 November 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/42368

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **H04Q 7/20(2006.01)**

USPC: 455/456.1,456.5
 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. : 455/456.1, 456.1.5, 457, 404.2, 502, 13.2; 342/457

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,119,013 A (MALONEY et al.) 12 September 2000 (12.09.200), entire document.	1-39
Y,P	US 2004/0203882 A1 (LAIHO et al.) 14 October 2004 (14.10.2004), entire document.	1-39
Y,P	US 6,782,264 B2 (ANDERSON) 24 August 2004 (24.08.2004), entire document.	1-39
Y,P	US 2004/0176109 A1 (NIEMENMAA) 09 September 2004 (09.09.2004), entire document.	1-39

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"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 29 August 2008 (29.08.2008)	Date of mailing of the international search report 03 SEP 2008
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