

(43) International Publication Date
18 June 2009 (18.06.2009)(10) International Publication Number
WO 2009/076156 A3(51) International Patent Classification:
H04W 24/00 (2009.01)(21) International Application Number:
PCT/US2008/085501(22) International Filing Date:
4 December 2008 (04.12.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/005,771 7 December 2007 (07.12.2007) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, ST, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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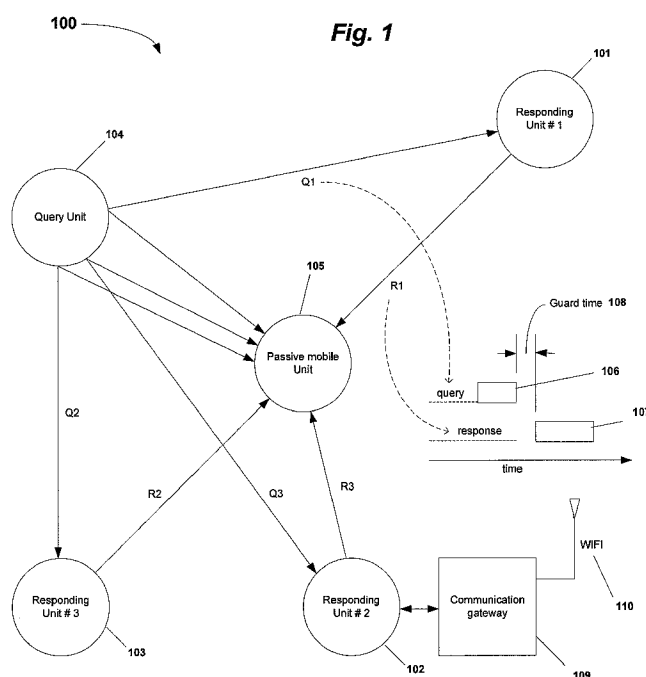
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR DETERMINATION OF POSITION



(57) Abstract: A system and method of determining and reporting on the position of a wireless device relative to a group of other wireless devices dispersed within a specified geographic area. The system includes at least one Query Unit, three or more Responding Units disposed at determinable locations within the specified geographic area, and one or more Mobile Units, which may correspond to additional Responding Units or units that function only as receivers. The Query Unit sequentially queries the Responding Units, and, responsive to the respective query messages, the Responding Units transmit corresponding response messages. The Mobile Units receive the query and response messages, and generate, for each query-response message pair, a set of time-difference-of-arrival (TDOA) measurements, which are used by the Mobile Units to determine their positions relative to the Responding Units. The Mobile Units record the times-of-arrival (TOAs) of the query message and the response messages.



(88) Date of publication of the international search report:
30 December 2009

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2008/085501

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04W 24/00 (2009.01)

USPC - 455/456.2

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)

IPC(8) - H04Q 7/20 (2009.01)

USPC - 455/456.2

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)

MicroPatent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,774,829 A (CISNEROS et al) 30 June 1998 (30.06.1998) Entire Document.	39-40
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Y		37-38
Y	US 2006/0025158 A1 (LEBLANC et al) 02 February 2006 (02.02.2006) Entire Document.	1-38
Y	USRE 35,607 (NAGAMUNE et al) 16 September 1997 (16.09.1997) Entire Document.	1-38
Y	US 7,167,713 B2 (ANDERSON) 23 January 2007 (23.01.2007) Entire Document.	11-12, 21, 31
A	US 7,289,574 B2 (PAROLARI) 30 October 2007 (30.10.2007) Entire Document.	1-40
A	US 5,241,702 A (DENT) 31 August 1993 (31.08.1993) Entire Document.	1-40

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Date of the actual completion of the international search

30 January 2009

Date of mailing of the international search report

23 APR 2009

Name and mailing address of the ISA/US

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P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

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PCT OSP: 571-272-7774