

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number
WO 2004/089032 A3

(51) International Patent Classification⁷: H04Q 7/38, G01S 5/04

[US/US]; 1033 Abeto Court, San Diego, CA 91910 (US).
CHANG, Henry [US/US]; 12676 Crest Knolls Court, San Diego, CA 92130 (US).

(21) International Application Number: PCT/US2004/009301

(74) Agents: CONNELL, Kathleen, L. et al.; Kyocera Wireless Corp., Attention: Patent Department, P.O. Box 928289, San Diego, CA 92192-8289 (US).

(22) International Filing Date: 26 March 2004 (26.03.2004)

(25) Filing 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, 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.

(26) Publication Language: English

(30) Priority Data: 10/402,608 27 March 2003 (27.03.2003) US

(71) Applicant (for all designated States except US): KYOCERA WIRELESS CORP. [US/US]; 10300 Campus Point Drive, San Diego, CA 92121 (US).

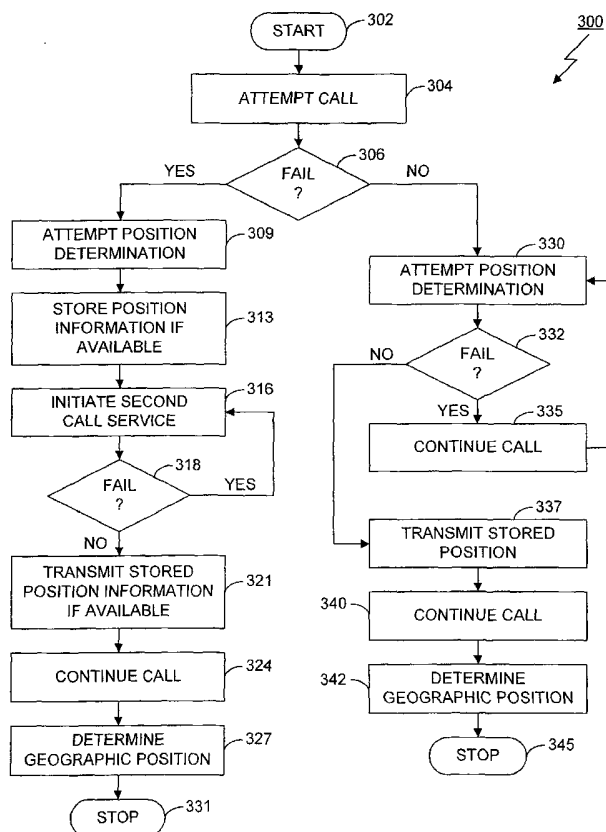
(72) Inventors; and

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

(75) Inventors/Applicants (for US only): DUNN, Douglas, L.

[Continued on next page]

(54) Title: LOCATION CAPABLE MOBILE HANDSET



(57) Abstract: The location capable mobile handset allows the user to provide a call recipient with the location of an unsuccessful attempted emergency call. In one specific example, the call may be an E911 call to a PSAP dispatcher. Additionally, the call may be to a towing service, or to a family member or friend to request assistance. The call may be any call that a mobile handset user wants to send location information to the party that has been called. Returning to the E911 call example, the location information reported to dispatcher can include the location of initial E911 call, current location during a successful E911 call, or ground track information from the initial location to the current location. When an E911 call is unsuccessfully attempted, the mobile handset stores the location of the mobile handset at that time. This information can later be transmitted when the mobile handset is in a coverage area. Additionally, the mobile handset can auto-dial 911 upon entering a service area after an unsuccessful E911 attempt. Alternately the user can be prompted to initiate an E911 call when the mobile handset enters a service area.

WO 2004/089032 A3



GM, KE, LS, MW, MZ, 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, 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).

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, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, 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, IT, LU, 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)

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, 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, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, 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, IT, LU, 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 the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW,

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 November 2004

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
US2004/009301

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/38 G01S5/04

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 7 H04Q G01S

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 practical, search terms used)
EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 789 498 A (FORD MOTOR CO) 13 August 1997 (1997-08-13)	1-6, 8-18, 20-32
Y	column 1, line 3 - line 21 column 3, line 52 - column 5, line 48 column 6, line 45 - line 52 figures 1,2,4	7,19, 33-38
Y	----- US 5 479 482 A (GRIMES GARY J) 26 December 1995 (1995-12-26) column 2, line 9 - line 43 column 6, line 16 - column 8, line 32 figure 3 ----- -/--	7,19,38

Further documents are listed in the continuation of box C.

Patent family members are listed in 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 document but 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

Date of mailing of the international search report

24 September 2004

07/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rabe, M

INTERNATIONAL SEARCH REPORT

International Application No

JS2004/009301

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 295 454 B1 (BOLTZ DAVID ET AL) 25 September 2001 (2001-09-25) column 4, line 60 - line 65 column 5, line 65 - column 6, line 14 -----	33-37
A	CHRISTIE J ET AL: "Development and deployment of GPS wireless devices for E911 and location based services" IEEE 2002 POSITION LOCATION AND NAVIGATION SYMPOSIUM. (PLANS 2002). PALM SPRINGS, CA, APRIL 15 - 18, 2002, POSITION LOCATION AND NAVIGATION SYMPOSIUM, NEW YORK, NY : IEEE, US, 15 April 2002 (2002-04-15), pages 60-65, XP010590486 ISBN: 0-7803-7251-4 the whole document -----	1-38
A	GARMIN CORPORATION: "GPSMAP 180 OWNER'S MANUAL AND REFERENCE" 'Online! March 1999 (1999-03), pages 34-46, XP002297874 TAIWAN Retrieved from the Internet: URL: www.computerdokter24.de/manuals/map180 .pdf> 'retrieved on 2004-09-24! page 34, line 1 - page 46, line 26 -----	33-37

INTERNATIONAL SEARCH REPORT

International Application No
 /US2004/009301

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0789498	A	13-08-1997	US 5890061 A 30-03-1999
			CA 2196939 A1 10-08-1997
			DE 69626187 D1 20-03-2003
			DE 69626187 T2 25-09-2003
			EP 0789498 A2 13-08-1997
			JP 9233562 A 05-09-1997

US 5479482	A	26-12-1995	NONE

US 6295454	B1	25-09-2001	NONE
