



(51) International Patent Classification:
H04W 48/18 (2009.01) *H04W 88/06* (2009.01)
H04W 52/02 (2009.01)

(21) International Application Number:
PCT/US2009/039989

(22) International Filing Date:
9 April 2009 (09.04.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
08008097.1 28 April 2008 (28.04.2008) EP

(71) Applicant (for all designated States except US): **MOTOROLA, INC.** [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BAGLIN, Matthieu** [FR/FR]; 10 Avenue du Dr. Grynfoegel, Villa 11, F-31100 Toulouse (FR). **BAUSSON, Stephane** [FR/FR]; Chemin

de Labarteuille, F-31600 Lherm (FR). **SWAMY, Satish, Jamadagni, Nanjunda** [IN/IN]; No 621, 6th B Main, 11th Cross, Bangalore KRN 560078 (IN).

(74) Agents: **CUNNINGHAM, Gary, J.** et al.; 600 North U.S. Highway 45, Libertyville, IL 60048 (US).

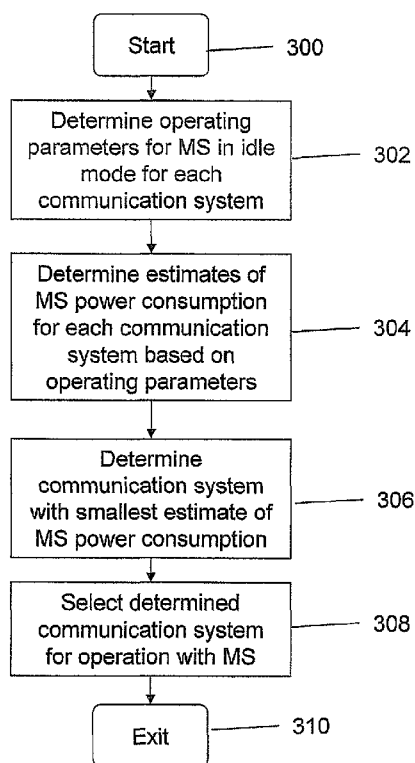
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,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

[Continued on next page]

(54) Title: METHOD OF SELECTING A COMMUNICATION SYSTEM FOR OPERATING WITH A COMMUNICATION DEVICE IN AN IDLE MODE, AND COMMUNICATION DEVICE

FIG. 3



(57) Abstract: A method of selecting a communication system (2, 4) for operating with a communication device (100) during an idle mode of operation of the communication device is described. The communication device (100) is capable of operating with at least two communication systems. The method comprises determining (302, 304, 306) the one communication system of the at least two communication systems (2, 4) with which the communication device (100) has a smallest power consumption when operating in the idle mode of operation, and selecting the determined one communication system for operation with the communication device during the idle mode of operation.



ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, 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).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

23 December 2009

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/039989**A. CLASSIFICATION OF SUBJECT MATTER****H04W 48/18(2009.01)i, H04W 52/02(2009.01)i, H04W 88/06(2009.01)i**

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 9: H04W, H04Q, H04L, H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility Models since 1975

Japanese Utility models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & keywords: "dual communication, idle mode, handover, reselection, power consumption"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2007-065329 A1 (HUAWEI TECHNOLOGIES CO., LTD.) 14 Jun. 2007 See abstract, figures 1,5,7-9,15-16, a whole description, and claims 1-2,21-22.	1-18
Y	EP 0896493 A2 (NEC CORPORATION) 10 Feb. 1999 See abstract, figures 1-2,4,6, paragraphs [0028], [0030]-[0031], [0040]-[0041], [0046]-[0047], [0050] and claims 1-9,13.	1-18
A	Xing, Bo et al., Multi-Constraint Dynamic Access Selection in Always Best Connected Networks, In proceedings of The Second Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services (Mobiquitous 2005), pp. 56 ~ 64, 17 Jul. 2005.	1-18



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 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 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

30 OCTOBER 2009 (30.10.2009)

Date of mailing of the international search report

30 OCTOBER 2009 (30.10.2009)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Kwang Sik

Telephone No. 82-42-481-8355



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/039989

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007-065329 A1	14.06.2007	CN 1852313 A EP 1959621 A1 US 2008-0318580 A1	25.10.2006 20.08.2008 25.12.2008
EP 0896493 A2	10.02.1999	AU 755261 B2 CN 1207639 A CN 1135865 C EP 0896493 A3 JP 03-235570 B2 JP 11-252006 A	05.12.2002 10.02.1999 21.01.2004 21.08.2002 28.09.2001 17.09.1999