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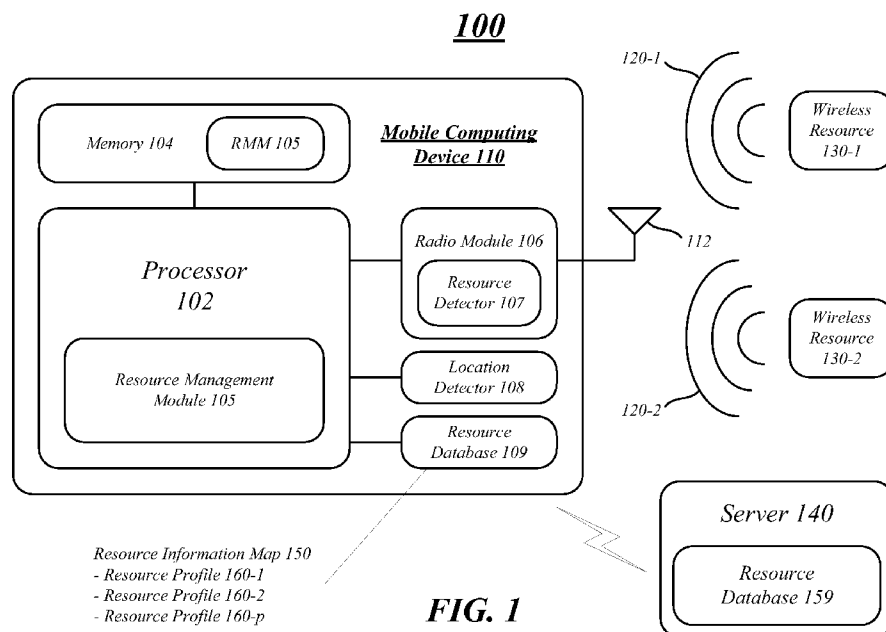
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[Continued on next page]

(54) Title: TECHNIQUES TO MANAGE A RADIO BASED ON LOCATION INFORMATION



(57) Abstract: Techniques to manage a radio based on location information are described. A mobile computing device may include a radio module, a location detector operative to determine a location for the mobile computing device, and a processor to couple to the radio module and the resource database. The processor may be operative to execute a resource management module to access a resource profile having resource information for one or more cellular radiotelephone network resources accessible from the location, and control operations for a radio module based on the resource profile. Other embodiments are described and claimed.

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**A. CLASSIFICATION OF SUBJECT MATTER*****H04W 72/04(2009.01)i, H04W 8/08(2009.01)i, H04W 28/18(2009.01)i, H04W 64/00(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 H04W, H04Q

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)

eKIPASS(KIPO internal) &amp; keywords: "wireless, mobile", "locat\*", "posi\*", "scan", "detect\*"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6167268 A (SLIM SOUSSI et al.) 26 December 2000 See the abstract, column 3 line 29- column 6 line 15, claims 7-10 and figure 2.	1-3, 11-13
A	US 6564055 B1 (DANIEL J. HRONEK) 13 May 2003 See the abstract, claims 1-2 and figure 1.	1-3, 11-13
A	KR 10-2003-0089146 A (SK TELECOM CO., LTD.) 21 November 2003 See the abstract, claims 1-5 and figures 2,5.	1-3, 11-13
A	US 6970708 B1 (ALEX KRISTER RAITH) 29 November 2005 See the abstract, claim 1 and figure 5.	1-3, 11-13



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

"&amp;" document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

International application No.

**PCT/US2008/085063****Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☒ Claims Nos.: 4-10, 14-15  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2008/085063**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6167268 A	26.12.2000	AU 2000-29806 A1 WO 00-49818 A1	04.09.2000 24.08.2000
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US 6970708 B1	29.11.2005	AU 2001-25831 A1 AU 2583101 A EP 1256252 A2 EP 1418784 A1 JP 2003-524967 A WO 01-58201 A1	14.08.2001 14.08.2001 13.11.2002 12.05.2004 19.08.2003 09.08.2001