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Declarations under Rule 4.17:

- 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))

Published:

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

[Continued on next page]

(54) **Title:** LOCATION INTEGRATION IN SOFTWARE DEFINED RADIO

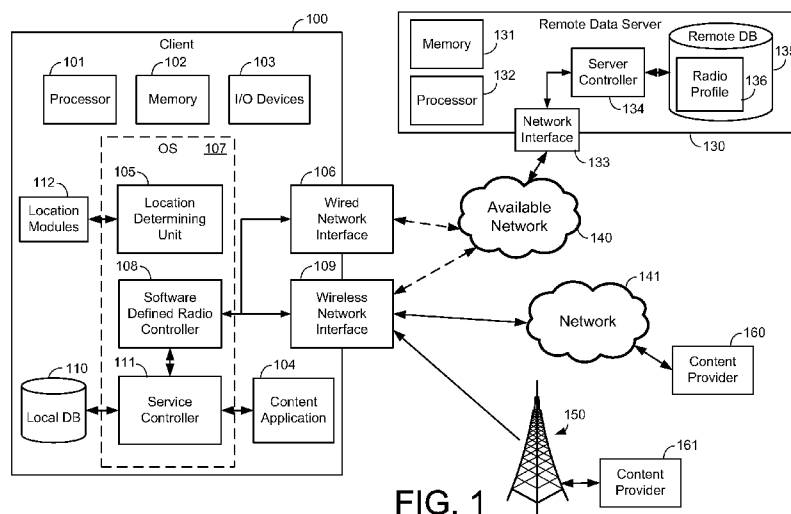


FIG. 1

(57) **Abstract:** A computing device having a software defined radio (SDR) wireless network interface is automatically configured to support a wireless service in response to a request from the user to access the service. The computing device may determine the appropriate profile and obtain it by querying a remote database. The query may indicate the computing device's current location, though location information may alternatively be determined by a server coupled to the database. The communication profile is downloaded from the remote database using an existing or available network connection. The software defined radio is configured with the communication profile and is used to access an available wireless service. Content obtained from the wireless service is presented through a user interface of the computing device.

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A. CLASSIFICATION OF SUBJECT MATTER**H04W 4/02(2009.01)i, H04W 88/02(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)

H04W 4/02; H04M 1/00; H04M 3/00; G06F 13/00; H04N 5/445

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: current location, configure, profile, radio

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 6728531 B1 (JEFFREY S. LEE et al.) 27 April 2004 See column 6 line60-line67, column 7 line10-line15, column 8 line8-line13, column 12 line13-line22.	10-11,13 1,3-4 2,5-9,12,14-15
Y	US 2009-0239577 A1 (MICHAEL HOLTON et al.) 24 September 2009 See paragraphs [0008],[0009],[0033],[0068],[0070].	1,3-4
A	US 2005-0108754 A1 (TOM CARHART et al.) 19 May 2005 See paragraphs [0037]-[0039],[0049].	1-15

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6728531 B1	27.04.2004	AU 2000-73853 A1	24.04.2001
		AU 2000-76004 A1	24.04.2001
		AU 2000-76006 A1	24.04.2001
		AU 7600600 A	24.04.2001
		GB 2364217 A	16.01.2002
		JP 2003-526971 A	09.09.2003
		US 6374177 B1	16.04.2002
		US 6799201 B1	28.09.2004
		WO 01-22112 A1	29.03.2001
		WO 01-22249 A1	29.03.2001
US 2009-0239577 A1	24.09.2009	None	
US 2005-0108754 A1	19.05.2005	CA 2488022 A1	19.05.2005
		EP 1545031 A2	22.06.2005
		US 2009-031366 A1	29.01.2009
		US 2010-186049 A1	22.07.2010
		US 7568213 B2	28.07.2009