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— *as to the identity of the inventor (Rule 4.17(i))*

— *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))*

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(54) Title: METHOD AND SYSTEM FOR UTILIZING SPECTRUM DATA IN A COGNITIVE WIRELESS ACCESS SYSTEM

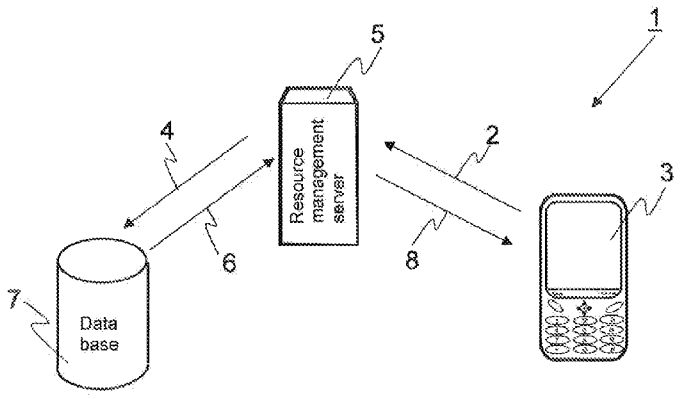

Fig. 2

(57) Abstract: The invention relates to a cognitive wireless communication system (1) where a wireless terminal is allowed to utilize in channel selection process both licenced bands and unlicensed bands that are available. The invention relates also to a method and computer program for allocating a transmission channel for a wireless terminal (3) either from licenced or unlicensed bands in a cog - nitive radio system by a resource management server (5). The utilized spectrum data is gathered by spectrum sensing from databases and control channels and it is saved in a data-base (7). A transmission channel to a wireless terminal is allocated by the resource management server (3) by utilizing gathered short term and long term spectrum data.

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International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. H04W16/14
ADD.

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

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)

EPO-Internal, COMPENDEX, INSPEC, IBM-TDB, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008/109641 A2 (ANANSI NETWORKS INC [US]; STANFORTH PETER [US]; KOOS LARRY W [US]; KOO) 12 September 2008 (2008-09-12)	1,9,12
Y	page 26, line 27 - page 29, line 13;	2,4-8,10
A	figure 9	3,11,13

X	ANINDITA KUNDU ET AL: "QoS Aware Integrated Call Admission and Cognitive Channel Allocation Scheme for A Macro-Femto BWA Network", AICIT JOURNAL OF RESEARCH NOTES IN INFORMATION SCIENCE, vol. 11, January 2013 (2013-01), pages 47-59, XP055157786, DOI: 10.4156/rnis.vol11.5	1,9,12
A	the whole document	3,11,13

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	WO 2011/154612 A1 (TEKNOLOGIAN TUTKIMUSKESKUS VTT [FI]; HOEYHTYAE MARKO [FI]; SARVANKO HE) 15 December 2011 (2011-12-15) abstract; figure 2 page 7, line 16 - page 16, line 2; figures 1-3	2,4-8,10
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