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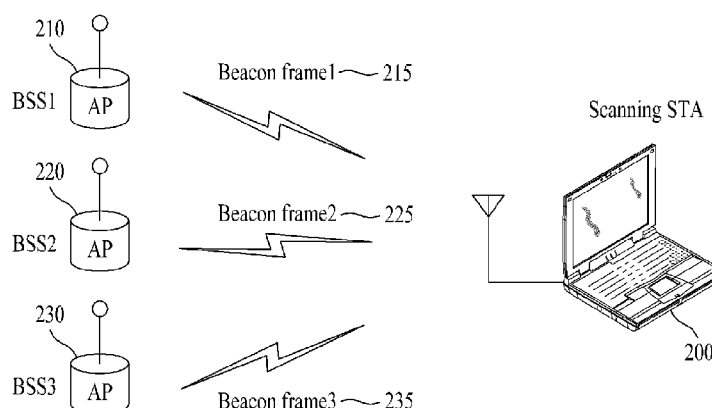
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(54) Title: METHOD AND APPARATUS FOR SCANNING EXISTING NETWORKS IN TVWS

[Fig. 16]



(57) Abstract: A method and an apparatus for scanning existing networks in TV White Space are disclosed. For scanning existing networks at a station to operate as an unlicensed device in a regulatory domain where a licensed device and the unlicensed device are permitted to operate, the method comprises: receiving a white space map (WSM) comprising information for available channels to be used for the unlicensed device to operate a wireless local area network (WLAN) operation and maximum transmission powers allowed for each of the available channels from an enabling station, wherein the enabling station is a station determining the available channels at its location using its own geographic location identification and a regulatory database access capability; and scanning the existing networks on the available channels identified within the received WSM.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2010/006954**A. CLASSIFICATION OF SUBJECT MATTER*****H04W 48/16(2009.01)i, H04W 84/12(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 48/16; H04W 8/00

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: "scanning, available channel, location white space map"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CORDEIRO, C. et al., `IEEE 802.22: An introduction to the first wireless standard based on cognitive radios,` IEEE Journal of communications, vol.1, no.1, pp.38-47, 30 April 2006 See abstract, chapter III.B, IV.A and V.B.	1-3, 9-12, 18
Y	US 2008-0240024 A1 (RAO YADUNANDANA N. et al.) 02 October 2008 See abstract, figure 2, paragraphs [0018]-[0029], and claims 13-16.	1-3, 9-12, 18
A	WO 2009-069068 A2 (KONINKLIJKE PHILIPS ELECTRONICS N.V. et al.) 04 June 2009 See abstract, figures 1-2, page 3, line 22 - page 4, line 28, page 7, line 5 - page 8, line 7, and claims 1-13.	1-18

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

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Information on patent family members

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