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(54) Title: RADIO SPECTRUM SHARING

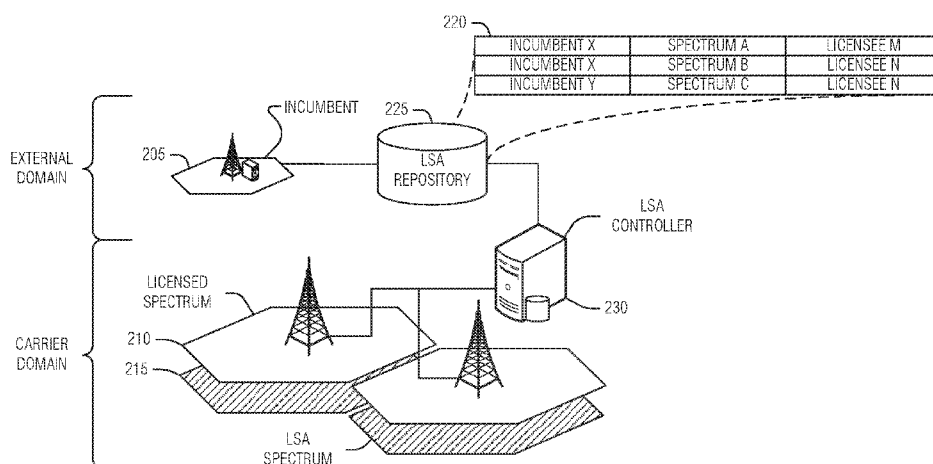


FIG. 2

(57) Abstract: System and techniques for radio spectrum sharing are described herein. A free radio spectrum block may be identified. An identification packet of the free radio spectrum block may be published. Here, the identification packet may include at least one of available spectrum, time, or area corresponding to the free radio spectrum block. An acknowledgement to the identification packet may be received. A provider of the free radio spectrum block may then be caused to cease radio communication on the available spectrum for the time and area specified in the identification packet.



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**A. CLASSIFICATION OF SUBJECT MATTER****H04W 16/14(2009.01)i, H04W 16/02(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 16/14; H04L 5/00; H04W 56/00; H04W 72/04; H04W 12/08; H04W 28/26; H04W 76/04; H04W 16/02

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) &amp; keywords: radio spectrum, sharing, identification, acknowledgement, available spectrum

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2015-0358968 A1 (QUALCOMM INCORPORATED) 10 December 2015 See paragraphs [0046], [0059], [0069]; and figures 6, 8.	1-25
Y	US 2015-0181601 A1 (INTEL CORPORATION) 25 June 2015 See paragraphs [0035]-[0036]; claim 1; and figure 3.	1-25
Y	US 2016-0330743 A1 (FEDERATED WIRELESS, INC.) 10 November 2016 See paragraphs [0050]-[0051]; and figure 5.	2-3, 6-7, 14-23
Y	WO 2016-182634 A1 (INTEL IP CORPORATION) 17 November 2016 See paragraphs [0084], [0123], [0135]-[0136]; and figure 9.	5, 12-13, 15-16 , 18-19, 21
Y	US 2015-0373554 A1 (INTERDIGITAL PATENT HOLDINGS, INC.) 24 December 2015 See paragraph [0152]; and figure 16.	8-10

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

\* Special categories of cited documents:

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"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**

Information on patent family members

International application No.

**PCT/US2017/057352**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2015-0358968 A1	10/12/2015	CN 106465141 A EP 3152946 A1 JP 2017-517218 A KR 10-2017-0015383 A MX 2016015647 A WO 2015-187282 A1	22/02/2017 12/04/2017 22/06/2017 08/02/2017 27/02/2017 10/12/2015
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