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(54) Title: DEVICE, SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS

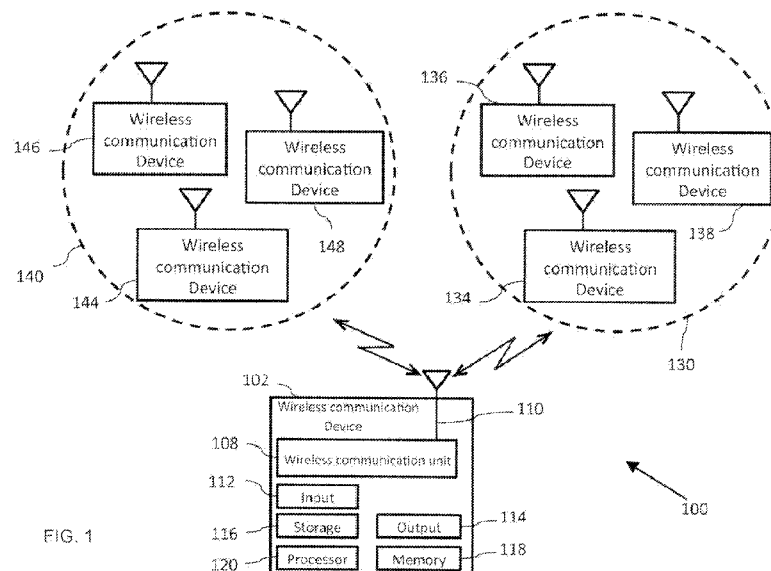


FIG. 1

(57) Abstract: Some demonstrative embodiments include devices, systems and/or methods of simultaneously communicating with a group of wireless communication devices. For example, a wireless communication unit may assign a plurality of wireless communication devices to at least one Space-Division Multiple Access (SDMA) group based on traffic-specification (TSPEC) information corresponding to the plurality of wireless communication devices, wherein the wireless communication unit is to simultaneously transmit a plurality of different wireless communication transmissions to the plurality of wireless communication devices of the group, respectively. Other embodiments are described and claimed.

A. CLASSIFICATION OF SUBJECT MATTER***H04W 4/08(2009.01)i, H04W 92/18(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 4/08; H04B 7/00; H04Q 7/00; H04B 7/08; H04B 7/212; H04Q 7/20; H04B 7/04

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: SDMA, group, QoS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007-0274256 A1 (SHINJI MURAI et al.) 29 November 2007 See paragraphs 2-10 and claims 1-20.	1-2, 13-14, 18-19
A	US 2009-0073954 A1 (ALEXANDER MALTSEV et al.) 19 March 2009 See paragraphs 19-25 and claims 1-27.	1-20
A	US 2007-0149236 A1 (JAMES MARK NADEN et al.) 28 June 2007 See paragraphs 10-12 and claims 1-14.	1-20
A	KR 10-2009-0072135 A (SAMSUNG ELECTRONICS CO., LTD. et al.) See paragraphs 14, 68 and claims 1-6.	1-20



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