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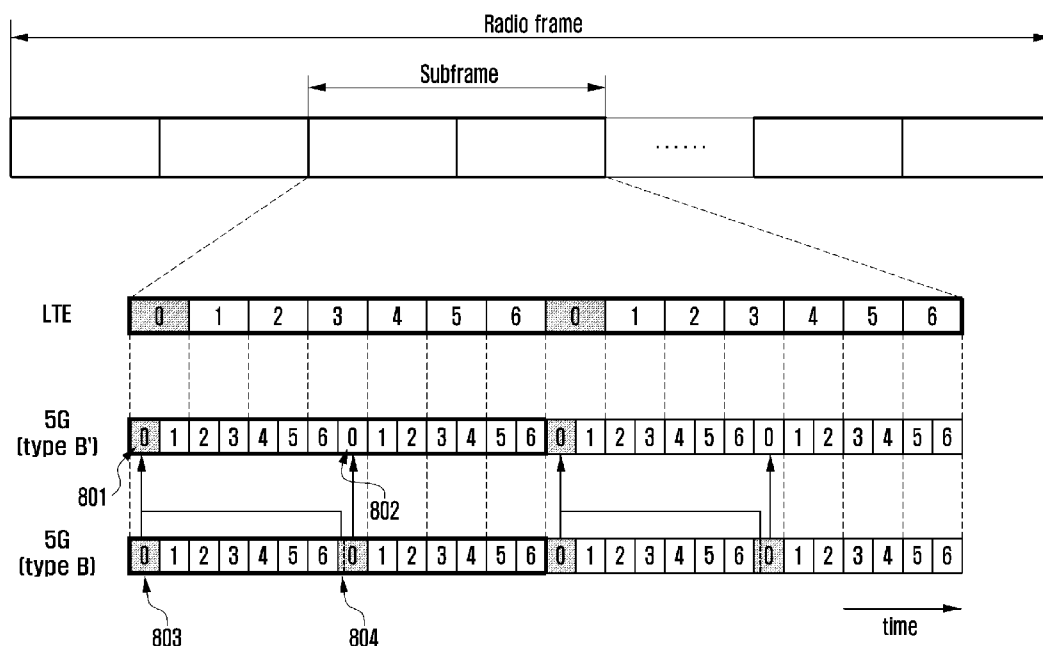
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(54) Title: METHOD AND APPARATUS FOR TRANSMISSION AND RECEPTION IN WIRELESS COMMUNICATION SYSTEM SUPPORTING SCALABLE FRAME STRUCTURE



(57) Abstract: The present disclosure relates to a communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT). The present disclosure may be applied to intelligent services based on the 5G communication technology and the IoT-related technology, such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security and safety services. An apparatus and method are provided for transmitting and receiving signals in a wireless communication system. A method includes transmitting a first signal using a first frame structure to a first terminal; and transmitting a second signal using a second frame structure to a second terminal. A subcarrier spacing of the second frame structure is a multiple of a subcarrier spacing of the first frame



PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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**A. CLASSIFICATION OF SUBJECT MATTER****H04L 5/00(2006.01)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)  
H04L 5/00; H04J 1/02; H04W 72/04; H04W 72/08; H04L 12/56; H04L 5/14; H04L 27/26Documentation 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 modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKOMPASS(KIPO internal) & Keywords: frame structure, spacing, length, subframe, and subcarrier**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2014-0161098 A1 (WI-LAN, INC.) 12 June 2014 See paragraphs [0052]-[0059]; and claims 1-14.	1-15
A	US 2014-0029568 A1 (LEI WANG et al.) 30 January 2014 See paragraphs [0057]-[0063]; figure 4; and claim 1.	1-15
A	US 8953615 B2 (SEAN CAI et al.) 10 February 2015 See column 16, line 38 - column 17, line 25; and claim 1.	1-15
A	KR 10-1537617 B1 (LG ELECTRONICS INC.) 17 July 2015 See paragraphs [0050]-[0057]; and claim 1.	1-15
A	ERICSSON LM, 'Introduction of EC-EGPRS, Multiple access and timeslot structure', GP-151219, 3GPP TSG GERAN Meeting #68, Anaheim, USA, 20 November 2015 ( <a href="http://www.3gpp.org/ftp/tsg_geran/TSG_GERAN/GERAN_68_Anaheim/Docs/">http://www.3gpp.org/ftp/tsg_geran/TSG_GERAN/GERAN_68_Anaheim/Docs/</a> ) See sections 5.2, 5.3.	1-15

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

\* Special categories of cited documents:

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

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Information on patent family members

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