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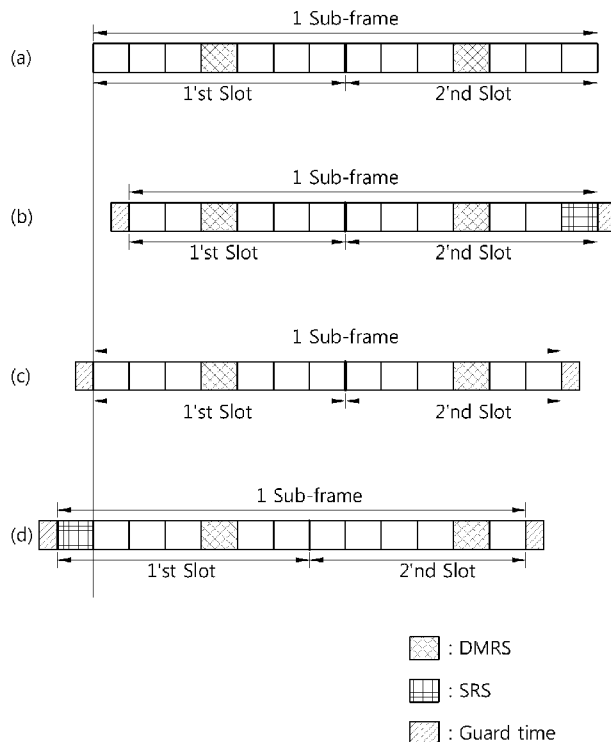
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[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR TRANSMITTING REFERENCE SIGNAL PERFORMED BY RELAY STATION IN WIRELESS COMMUNICATION SYSTEM

[Fig. 26]



(57) **Abstract:** A method of transmitting a reference signal performed by a Relay Station (RS) in a wireless communication system comprises allocating a guard time in the front of a backhaul subframe or the end of the backhaul subframe, the backhaul subframe comprising a plurality of slots, each of the plurality of slots comprising a plurality of Orthogonal Frequency Division Multiplexing (OFDM) symbols, and the guard time being a time interval for switching between an access link and a backhaul link, and transmitting a Demodulation Reference Signal (DMRS) to a Base Station (BS) in an OFDM symbol of the backhaul subframe. The OFDM symbol for the DMRS is not overlapped with the guard time.

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B. FIELDS SEARCHED

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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 modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords : TTG, RTG, relay, overlap**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007/0155315 A1 (MI-HYUN LEE et al.) 5 July 2007 see abstract, figs. 9A,9B,9C,9D and paragraph 57	1-12
A	US 2008/0043710 A1 (YUEFENG ZHOU et al.) 21 February 2008 see abstract and fig.7	1-12

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

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