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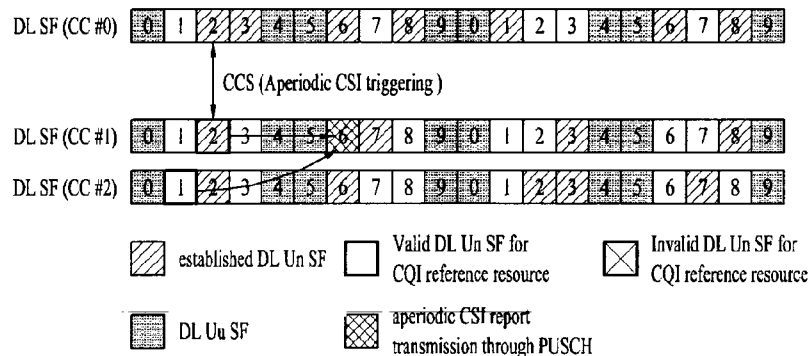
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[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR TRANSMITTING CHANNEL STATUS INFORMATION TO MACRO BASE STATION BY RELAY NODE IN WIRELESS COMMUNICATION SYSTEM TO WHICH CARRIER AGGREGATION IS APPLIED

FIG. 11



(57) **Abstract:** A method and apparatus for transmitting channel status information (CSI) to a macro eNB (MeNB) by a relay node (RN) in a wireless communication system to which carrier aggregation is applied are disclosed. The method includes receiving a CSI reporting request corresponding to a specific secondary component carrier (CC) from the transmitter through a primary CC, establishing a reference resource for the CSI in association with one or more secondary CCs indicated by the CSI reporting request, and transmitting CSIs of the one or more secondary CCs to the transmitter through the specific secondary CC, using the established reference resource. The reference resource is set to the nearest subframe serving as a valid downlink subframe from a reception time point of the CSI reporting request.

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A. CLASSIFICATION OF SUBJECT MATTER**H04B 7/14(2006.01)i, H04J 11/00(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)

H04B 7/14; H04W 72/04; H04J 11/00

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: CSI, report, request, component, carrier, primary, secondary, subframe

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	R1-106122, "Triggering of aperiodic CQI for DL CCs," 3GPP TSG-RAN WG1 #63, 19 November 2010 See section 2.	1-10
A	US 2010-0234037 A1 (TERRY STEPHEN E. et al.) 16 September 2010 See abstract; claim 1 and figure 9.	1-10
A	R1-110027, "Periodic CSI reporting for CA," 3GPP TSG RAN WG1 #63bis, 21 January 2011 See section 2.	1-10
A	R1-110328, "Periodic CSI reporting in case of multiple DL CCs configured," 3GPP TSG RAN WG1 #63bis, 21 January 2011 See section 2.	1-10

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"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

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		CN 102349259 A	08.02.2012
		EP 2406913 A2	18.01.2012
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