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(54) **Title:** CHANNEL QUALITY REPORTING IN A COMMUNICATIONS SYSTEM

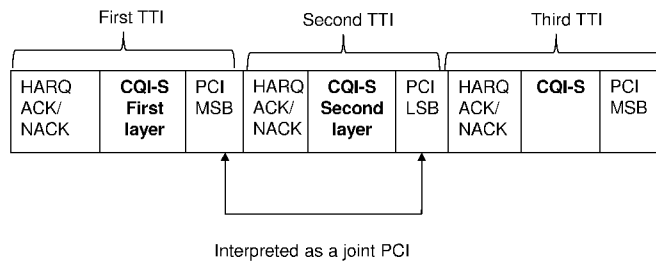
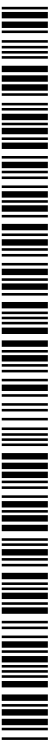


Fig. 9: HS-DPCCH structure for optimized for rank 2 transmissions

(57) **Abstract:** The embodiments herein relate to a method in a user equipment (305) for handling CSI in a communication system (300). The user equipment (305) determines the CSI, based on information about a CPICH. The CSI comprises at least one of a CQI, a RI, a PCI and an HARQ ACK/NACK. The user equipment (305) transmits the CSI multiplexed into a plurality of TTIs to the base station (301) so that a first CQI-S is transmitted in one TTI and a second CQI-S or a DTX codeword is transmitted in another TTI. The second CQI-S corresponds to a second layer.



INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC: see extra sheet

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)

IPC: H04B, H04W

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, PAJ, WPI data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008022243 A2 (QUALCOMM INC ET AL), 21 February 2008 (2008-02-21); abstract; paragraphs [0003], [0034], [0047]-[0048], [0051]-[0052]	1-4, 6-10, 12-16, 18-22, 24
Y	--	5, 11, 17, 23
Y	Philips, "CQI Reporting when MIMO and CPC are both configured", Tdoc R1-072388 in 3GPP TSG RAN WG1 meeting #49, 7th-11th May, 2007, Kobe, Japan.; figure 1; Background	5, 11, 17, 23
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 Further documents are listed in the continuation of Box C. See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	WO 2008117984 A1 (SAMSUNG ELECTRONICS CO LTD), 2 October 2008 (2008-10-02); page 8, line 31 - line 33 --	1, 7, 13, 19
X	US 20080101321 A1 (CHENG JUNG-FU ET AL), 1 May 2008 (2008-05-01); paragraph [0005] --	1, 7, 13, 19
A	WO 2011100627 A1 (QUALCOMM INC ET AL), 18 August 2011 (2011-08-18); abstract; paragraph [0111]; figure 16 -- -----	1-24

Continuation of: second sheet

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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