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(54) Title: TRANSMISSION OF CONTROL INFORMATION WITH A CONFIGURABLE TIMELINE IN A WIRELESS COMMUNICATION SYSTEM

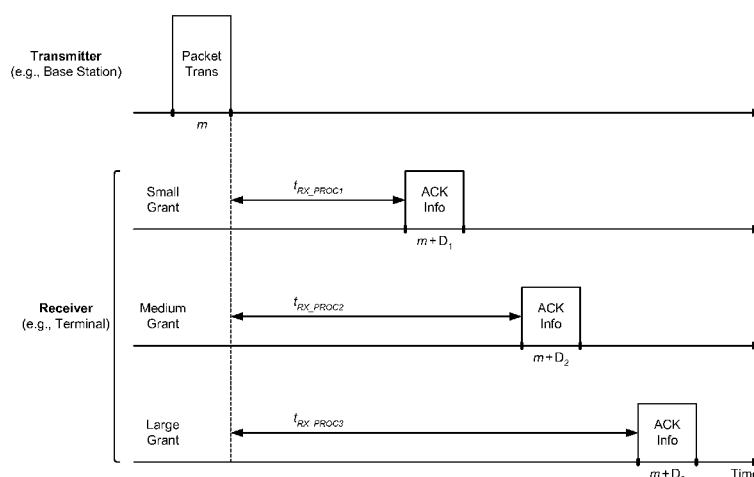


FIG. 3

(57) Abstract: Techniques for sending acknowledgement (ACK) and/or other control information with a configurable timeline are described. A receiver may have limited processing resources and may need different amounts of time to process different amounts of data. The receiver may send ACK information earlier (or later) if less (or more) receive processing time is required. In one design, the receiver may receive a transmission of data in accordance with a grant, decode the received transmission to recover the data, and determine ACK information based on decoding result. The receiver may determine a frame to send the ACK information based on the grant. The determined frame may be one of multiple frames available for sending the ACK information. For example, different grant sizes may be associated with different frames. The receiver may send the ACK information for the transmission of data in the determined frame.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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H04L H04Q

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

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/109988 A1 (SAMPATH ASHWIN [US]) 17 May 2007 (2007-05-17) abstract; figures 1,2,4-7 paragraph [0035] - paragraph [0042] paragraph [0058] - paragraph [0065] paragraph [0102] - paragraph [0104]	1-30
X	US 2007/133458 A1 (CHANDRA ARTY [US] ET AL) 14 June 2007 (2007-06-14) figures 1-3 paragraph [0003] - paragraph [0011] paragraph [0020] - paragraph [0026] paragraph [0036] - paragraph [0041] paragraph [0044]	1-30

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.
A	<p>QUALCOMM EUROPE: "UL control details for TDD" 3GPP DRAFT; R1-073263, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Athens, Greece; 20070820, 15 August 2007 (2007-08-15), XP050106898 page 2, line 13 - line 32 -----</p>	1-30

INTERNATIONAL SEARCH REPORT

Information on patent family members

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