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16/393516 24 April 2019 (24.04.2019) US(71) Applicant: **TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)** [SE/SE]; SE-164 83 Stockholm (SE).(72) Inventors: **KARAKI, Reem**; Adalbertsteinweg 45, 52070 AACHEN (DE). **CHENG, Jung-Fu**; 1806 Mandan Place, FREMONT, 94539 (US). **KOORAPATY, Havish**; 13425 Kodiak Place, SARATOGA, 95070 (US). **FALAHATI, Sorour**; Wargentinsgatan 6, 112 29 Stockholm (SE). **LIU, Yuhang**; Särklandsgatan 3, 224 74 Lund (SE). **RUNE, Johan**; Terrängvägen 12, 181 29 LIDINGÖ (SE).(74) Agent: **ERICSSON**; Patent Development Torshamnsgatan 21-23, 164 80 STOCKHOLM (SE).

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(54) Title: HARQ-ACK REPORTING WITH PDSCH GROUPING

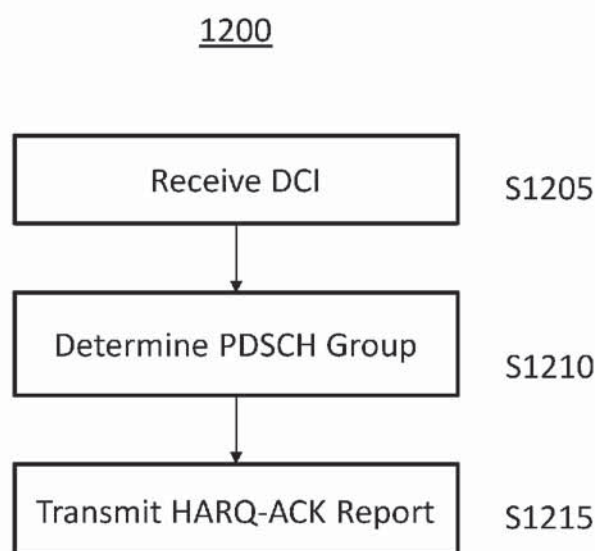
(57) **Abstract:** a wireless device receives downlink control information (DCI) from a network node, determines a physical downlink shared channel (PDSCH) group based on information in the received DCI, transmits a hybrid automatic repeat request acknowledgement (HARQ-ACK) report to the network node based on the determined PDSCH group, and receives radio resource control (RRC) configuration information, wherein determining the PDSCH group comprises identifying a PDSCH group index within the DCI based on the received RRC configuration information, the RRC configuration information comprises an indication of whether PDSCH grouping functionality is enabled with respect to the wireless device.

FIG. 12