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- (54) **Title:** PUCCH RESOURCE ALLOCATION FOR E-PDCCH IN COMMUNICATIONS SYSTEM

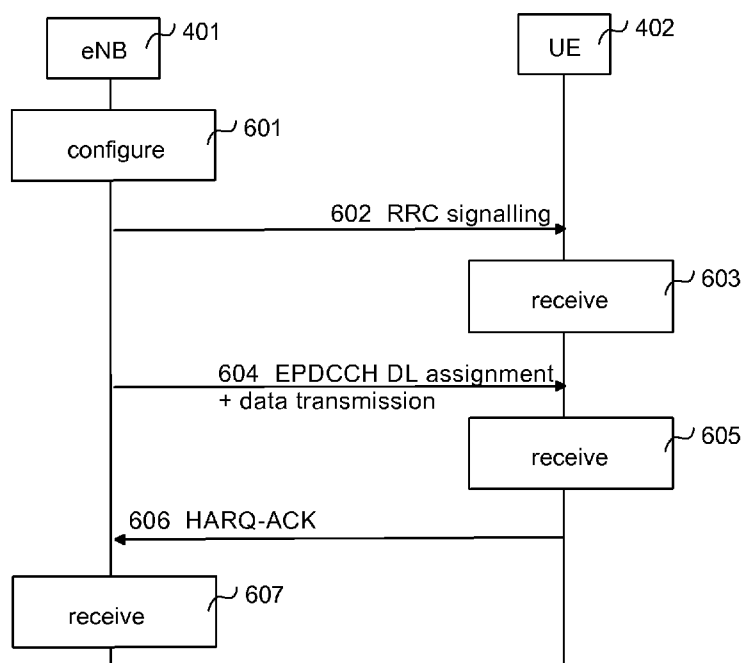


Fig. 6

(57) **Abstract:** An exemplary embodiment discloses a multi-subframe physical uplink control channel PUCCH resource arrangement for PUCCH format 1 a/1 b resource allocation for enhanced physical downlink control channel EPDCCH in time division duplex TDD transmission. A definition of a semi-static offset for each EPDCCH set is extended by considering multiple downlink subframes, and a dynamic offset mechanism is enhanced to avoid resource collision between multiple DL subframes.



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