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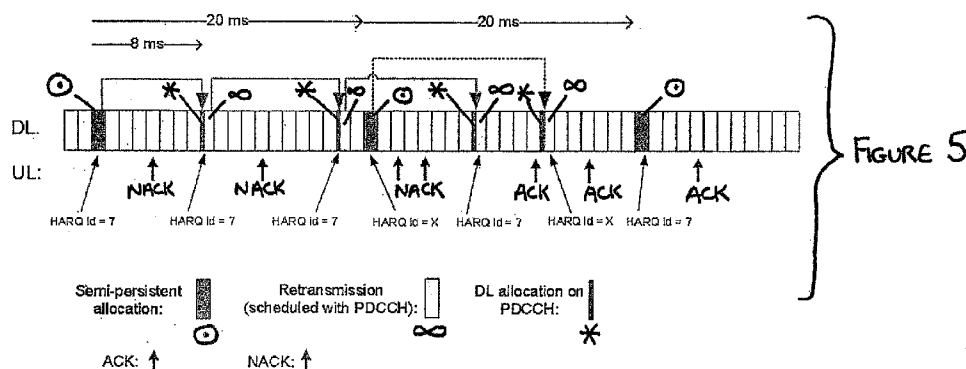
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(54) Title: IMPROVED RE-TRANSMISSION CAPABILITY IN SEMI-PERSISTENT TRANSMISSION



(57) Abstract: One or more hybrid automatic repeat request process identifications are configured for scheduling without associated control signaling. A particular HARQ process ID to be assumed for a given subframe is determined based on at least one of: a) system frame number; b) number of hybrid automatic repeat request processes that are allocated for semi-persistent scheduling; and c) periodicity for semi-persistent scheduling. In various embodiments: a) is broadcast and b) and c) are sent via RRC signaling; and the assumed particular HARQ process ID is determined as a function of $[\text{Current TTI/SP_Period}] \bmod \text{Num_SP_HARQ}$; wherein Current TTI is a number for the given subframe derived from the system frame number and the term $[\text{Current TTI/SP_Period}]$ is rounded to an integer prior to the modulo operation; SP_Period is the periodicity of the semi-persistent scheduling; and Num_SP_HARQ is the number of hybrid automatic repeat request processes that are allocated for semi-persistent scheduling.

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