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(54) **RADIO BASE STATION APPARATUS, MOBILE TERMINAL DEVICE AND WIRELESS COMMUNICATION METHOD**

(57) To efficiently use radio resources used in transmission of SRS, a base station apparatus (eNode B) transmits a scheduling grant including an instruction for transmission of a Sounding Reference Signal (SRS), and a mobile station apparatus (UE) transmits the SRS in response to the scheduling grant. The SRS is transmitted in the same subframe, another subframe or a previous

subframe by the predetermined number of subframes as, immediately before, or before a subframe of a PUSCH (Physical Uplink Shared Channel) that the scheduling grant instructs to transmit.

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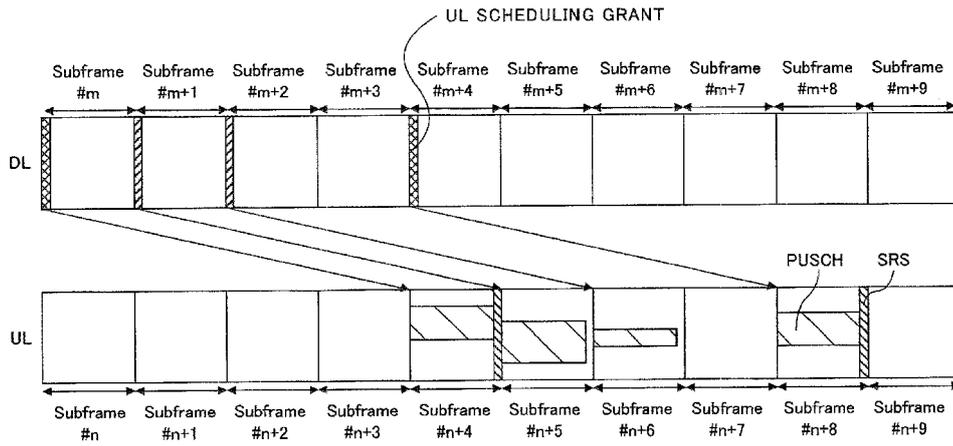


FIG. 2