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(54) Title: METHODS, APPARATUS AND SYSTEMS FOR UPLINK TRANSMISSION OF SMALL DATA

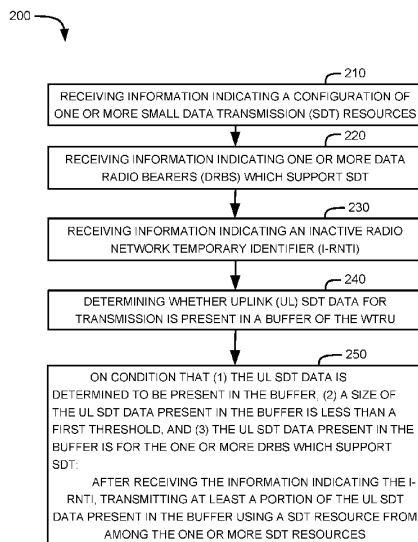


FIG. 2

(57) Abstract: Methods for resource efficient data transmission are described herein. A method may comprise operating in one of an idle or an inactive mode and transmitting, in response to a random access (RA) message or a configured grant (CG), a small data transmission over an uplink channel. The RA message may be received in a two-step RA procedure or a four-step RA procedure. The method may further comprise transitioning from the idle or the inactive mode to a connected mode. The method may further comprise determining resources for transmitting the small data transmission. The method may comprise determining whether the small data transmission was successfully received and retransmitting, on a condition the small data transmission was not received, the small data transmission. The method may further comprise segmenting a small data packet into a plurality of small data packets and transmitting the small data packets in a plurality of transmission opportunities.

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