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(54) Title: CIRCULAR BUFFER BASED RATE MATCHING

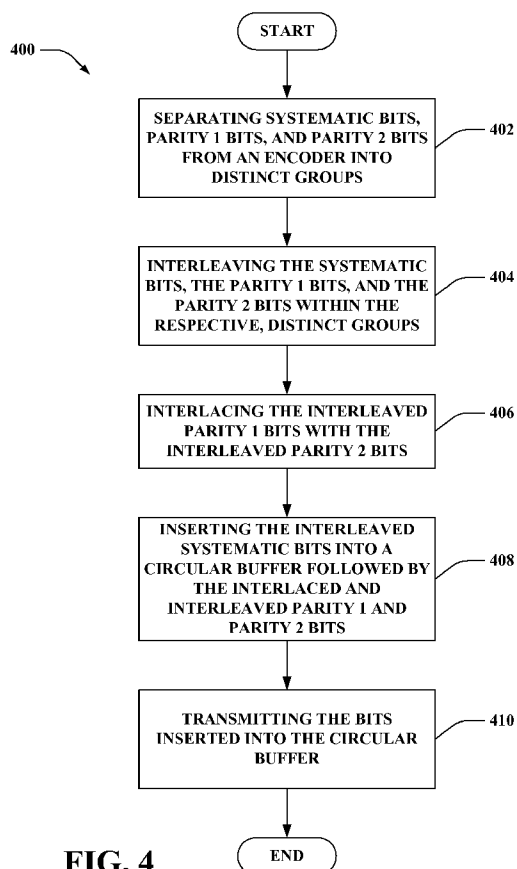


FIG. 4

(57) Abstract: Systems and methodologies are described that facilitate employing circular buffer based rate matching. Encoded block(s) that include systematic, parity 1, and parity 2 bits can be generated using turbo code. Bit type can be identified to separate bits into distinct groups. Systematic bits can be interleaved together to generate a randomized sequence of systematic bits, parity 1 bits can be interleaved together to yield a randomized sequence of parity 1 bits, and parity 2 bits can be interleaved together to output a randomized sequence of parity 2 bits. The randomized sequences of parity 1 bits and parity 2 bits can be interlaced together in an alternating manner. The randomized sequence of systematic bits can be inserted into a circular buffer, and upon inserting the entire sequence, the interlaced parity bits can be inserted into the circular buffer (e.g., until reaching capacity). Bits inserted into the circular buffer are transmitted.



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