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(54) **Title:** METHODS AND APPARATUS FOR COMPACTLY DESCRIBING LIFTED LOW-DENSITY PARITY-CHECK (LDPC) CODES

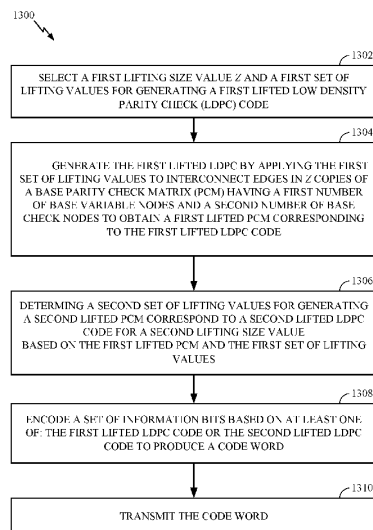


FIG. 13

(57) **Abstract:** Certain aspects of the present disclosure generally relate to techniques for compactly describing lifted quasi-cyclic low-density parity-check (LDPC) codes. A method for wireless communications by a transmitting device generally includes selecting a first lifting size value Z and a first set of lifting values for generating a first lifted LDPC code (1302). The first lifted LDPC code is generated by applying the first set of lifting values to interconnect edges in Z copies of a base parity check matrix (PCM) to obtain a first lifted PCM corresponding to the first lifted LDPC code (1304). The method further includes determining a second set of lifting values for generating a second lifted PCM corresponding to a second lifted LDPC code for a second lifting size value based on the first set of lifting values (1306), encoding a set of information bits based on at least one of the first lifted LDPC code or the second lifted LDPC code to produce a code word (1308) and transmitting the code word (1310).

[Continued on next page]

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