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(54) Title: SIMULTANEOUS DATA TRANSMISSION OF MULTIPLE NODES

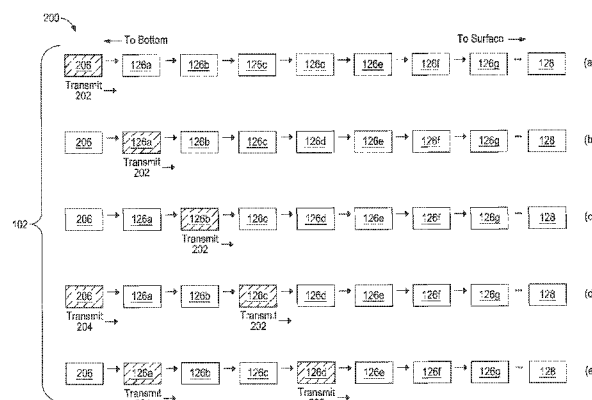


FIG. 2

(57) Abstract: Systems and methods of communicating wellbore data are disclosed. One method includes transmitting a first uplink signal with a downhole transceiver to a plurality of repeaters communicably coupled to the downhole transceiver, the plurality of repeaters including individual repeaters axially spaced from each other along a length of a pipe string. The first uplink signal is successively transmitted through the individual repeaters, and a second uplink signal is then transmitted with the downhole transceiver to the plurality of repeaters wherein the individual repeaters again successively transmit the second uplink signal. The first and second uplink signals are simultaneously transmitted through the plurality of repeaters, but transmission of the first uplink signal precedes transmission of the second uplink signal. The first and second uplink signals are eventually received with a surface transceiver in communication with the plurality of repeaters.