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(54) Title: APPARATUS AND METHODS FOR REAL TIME COMMUNICATION IN DRILL STRINGS

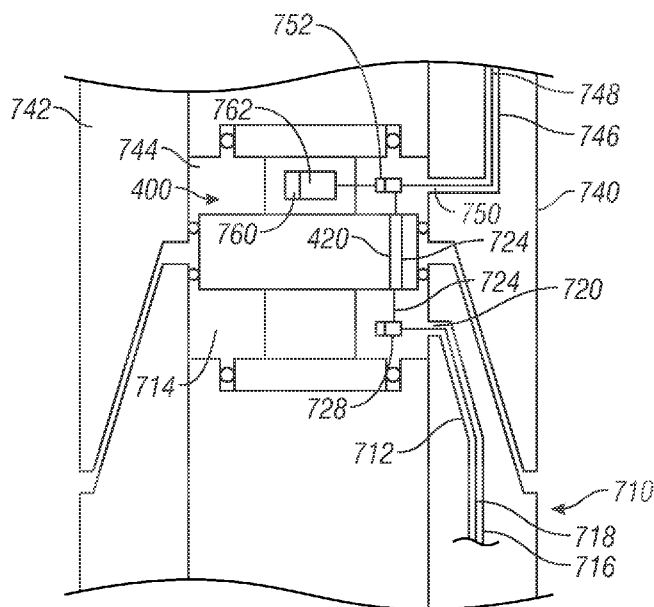


FIG. 7

(57) Abstract: A drill pipe made according to one embodiment includes a number of serially connected tubulars with a communication device placed between the connecting ends of the tubulars, wherein the communication device provides a direct data communication link between the adjoining tubulars.



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