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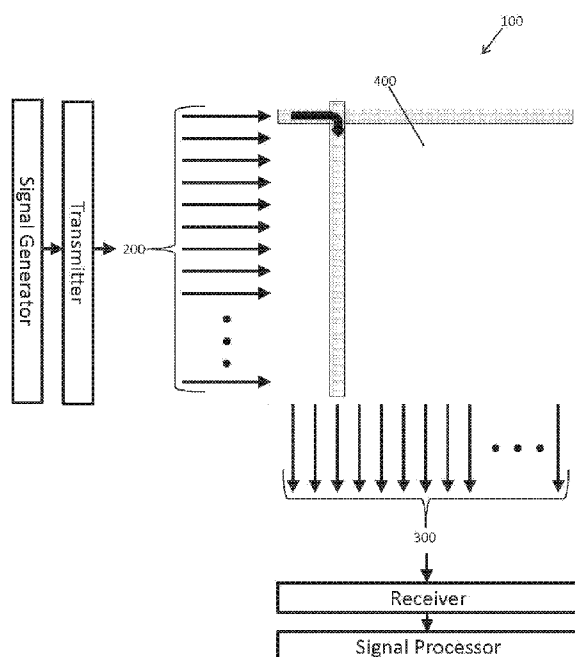
(54) **Title:** FAST MULTI-TOUCH NOISE REDUCTION

FIG. 1

(57) **Abstract:** A low-latency touch sensitive device provides a method for determining a location of a touch event thereon. The touch sensitive device row conductors and column conductors, the path of each of the row conductors crossing the path of each of the column conductors. Each of a set of orthogonal row signals are simultaneously transmitted on a respective one of at least some of the row conductors and an amount of each of the plurality of orthogonal row signals present on each of the plurality of column conductors is detected. A set of orthogonal column signals are simultaneously transmitted on a respective one of at least some of the column conductors. An amount of each of the orthogonal column signals present on each of the plurality of row conductors is detected. The detected amount of each of the plurality of orthogonal row signals and the detected amount of each of the plurality of orthogonal column signals is used to determine the location of a touch event on the device.



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