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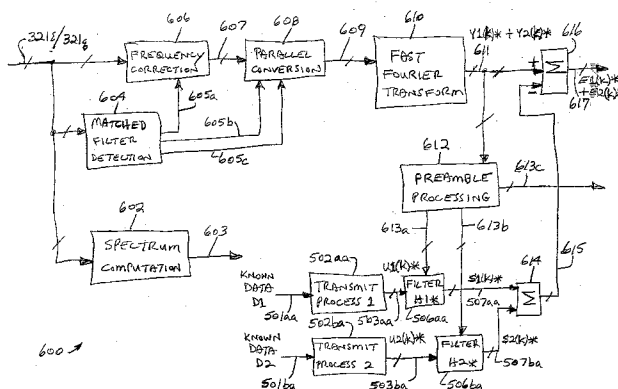
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(54) Title: APPARATUS AND METHOD FOR SIMULTANEOUS TESTING OF MULTIPLE ORTHOGONAL FREQUENCY
DIVISION MULTIPLEXED TRANSMITTERS WITH SINGLE VECTOR SIGNAL ANALYZER



(57) Abstract: An apparatus and method for simultaneous testing a plurality of orthogonal frequency division multiplexed (OFDM) signals. A vector signal analyzer (600) transforms a composite signal, received via a signal communication path and containing a plurality of OFDM signals, to provide a plurality of transformed data signals, wherein the composite data signal originates from a remote signals source having a plurality of signal transmission processes associated therewith and includes a plurality of data packets each of which includes a respective portion of a plurality of preamble data and a respective portion of a plurality of transmit data, each of the respective portion of the plurality of transmit data corresponds to a respective portion of a plurality of known data in relation to a respective one of the plurality of signal transmission processes and the signal communication path, and each of the plurality of transformed data signals includes a respective portion of the plurality of data packets, and receiving and processing the plurality of known data, at least the respective portion of the plurality of preamble data and at least the respective portion of the plurality of transmit data to provide a plurality of test data indicative of an error vector magnitude associated with the composite data signal.

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