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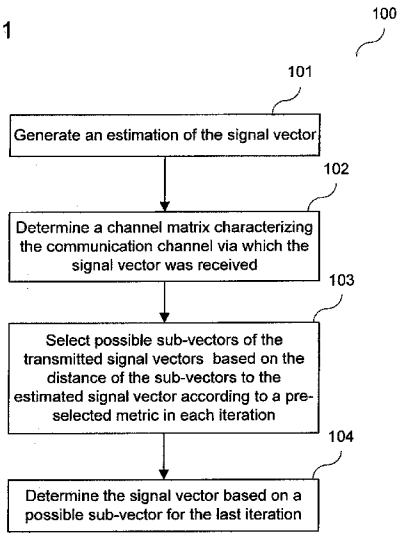
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(54) Title: METHOD FOR DETERMINING A SIGNAL VECTOR AND DETECTION CIRCUIT

FIG 1



(57) Abstract: A method for determining a signal vector comprising a plurality of components from a received signal vector is provided comprising generating an estimation of the signal vector; determining a channel matrix characterizing the communication channel via which the signal vector was received; carrying out a plurality of determination iterations based on the channel matrix, wherein for each iteration a first set of possible sub-vectors of the signal vector is determined based on a second set of possible sub-vectors for the previous iteration and from the first set of possible sub-vectors, a number of sub-vectors is selected based on the distance of the sub-vectors to the estimated signal vector according to a pre-selected metric to form a strict subset of the first set as the second set of possible sub-vectors for the iteration; determining the signal vector based on a possible sub-vector for the last iteration.

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