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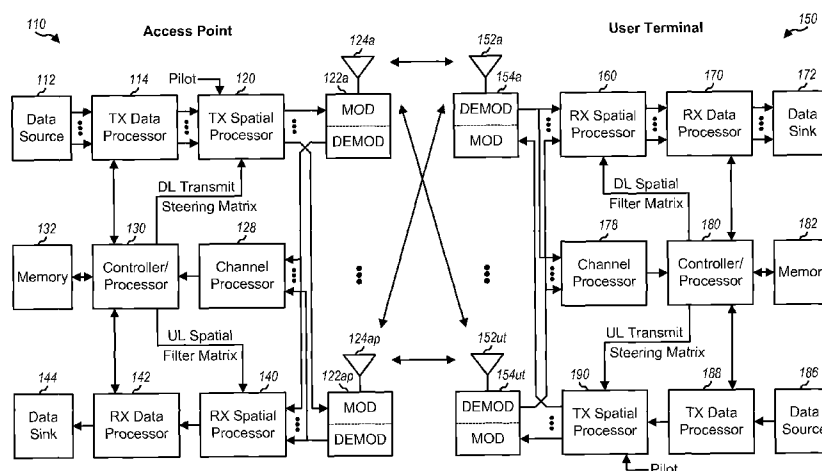
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(54) Title: DERIVATION AND FEEDBACK OF A TRANSMIT STEERING MATRIX



(57) Abstract: Techniques for efficiently deriving a transmit steering matrix and sending feedback for this matrix are described. A receiver determines a set of parameters defining a transmit steering matrix to be used for transmission from a transmitter to the receiver. The receiver may derive the transmit steering matrix based on a set of transformation matrices, which may be used for multiple iterations of Jacobi rotation to zero out off-diagonal elements of a channel matrix. The receiver may then determine the set of parameters based on the transformation matrices. The set of parameters may comprise at least one angle, at least one value, at least one index, etc., for each transformation matrix. The receiver sends the set of parameters defining the transmit steering matrix (instead of elements of the transmit steering matrix) to the transmitter for use by the transmitter to derive the transmit steering matrix.



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