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(54) Title: CODEBOOK DETERMINATION METHOD FOR MULTI-ANTENNA PANEL WITH EIGHT ANTENNA PORTS FOR UPLINK MIMO TRANSMISSION, AND APPARATUS THEREFOR

(54) 发明名称: 上行MIMO传输8天线端口多天线面板的码本确定方法及其装置

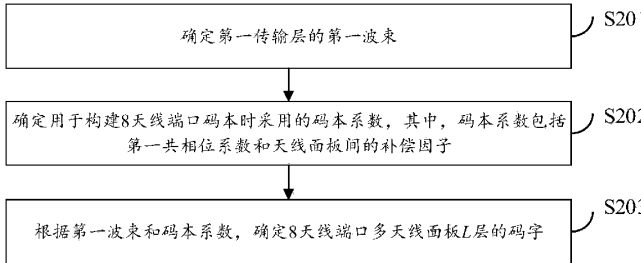


图 2

- S201 Determine a first beam of a first transport layer
- S202 Determine codebook coefficients used when constructing a codebook for eight antenna ports, wherein the codebook coefficients comprise a first co-phasing coefficient, and a compensation factor between antenna panels
- S203 Determine codewords of L layers of a multi-antenna panel with eight antenna ports according to the first beam and the codebook coefficients

(57) Abstract: Disclosed in the embodiments of the present application are a codebook determination method for a multi-antenna panel with eight antenna ports for uplink MIMO transmission, and an apparatus therefor, which method and apparatus can be applied to a communication system. The method comprises: determining a first beam of a first transport layer; determining codebook coefficients used when constructing a codebook for eight antenna ports, wherein the codebook coefficients comprise a first co-phasing coefficient, and a compensation factor between antenna panels; and determining codewords of L layers of a multi-antenna panel with eight antenna ports according to the first beam and the codebook coefficients, wherein L is a positive integer, and L is greater than or equal to 1 and less than or equal to 4. In the embodiments of the present application, high-dimensional codewords of L layers of a multi-antenna panel with eight antenna ports can be constructed on the basis of a first beam of a first transport layer and codebook coefficients, such that

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requirements of uplink MIMO supporting transmissions from layer 1 to layer 4 of a multi-antenna panel with eight antenna ports can be met, thereby further enhancing uplink MIMO technology.

(57) 摘要: 本申请实施例公开了一种上行MIMO传输的8天线端口多天线面板的码本确定方法及其装置, 可以应用于通信系统中, 该方法包括: 确定第一传输层的第一波束; 确定用于构建8天线端口码本时采用的码本系数, 其中码本系数包括第一共相位系数和天线面板间的补偿因子; 根据第一波束和码本系数, 确定8天线端口多天线面板L层的码字, 所述L为正整数, 所述L大于或者等于1且小于或者等于4。本申请实施例中可以基于第一传输层的第一波束和码本系数, 构建高维度8天线端口的多天线面板L层的码字, 能够满足上行MIMO支持8天线端口多天线面板的1层至4层传输的需求, 进而对上行MIMO技术进一步增强。