

## ABSTRACT

# CHANNEL STATE INFORMATION FEEDBACK METHOD AND COMMUNICATIONS APPARATUS

This application discloses a channel state information feedback method and a  
5 communications apparatus. The method includes: A terminal receives first indication information from a network device, and the terminal sends channel state information to the network device. The first indication information is used to indicate a type of a right multiplication matrix in a first codebook, and the first codebook satisfies a formula (I).  $W$  is the first codebook,  $W_1$  is a port selection matrix, (II) is a linear superposition coefficient matrix,  $W_f$  is the right multiplication  
10 matrix, and (III) is a conjugate transpose of  $W_f$ , and is used by the terminal to determine the channel state information based on the first codebook. According to the method, when there are a plurality of codebooks, the codebook used by the terminal to obtain the CSI can be clearly indicated. In addition, the terminal may feed back the CSI based on angle and delay reciprocity of an uplink channel and a downlink channel, thereby reducing overheads.

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Figure 3