

Title (en)

PRECODER DESIGN AND USE FOR MASSIVE MIMO

Title (de)

VORCODIERERENTWURF UND VERWENDUNG FÜR MASSIVE MIMO

Title (fr)

CONCEPTION ET UTILISATION D'UN PRÉCODEUR POUR MIMO MASSIF

Publication

EP 3251227 A1 20171206 (EN)

Application

EP 16701956 A 20160129

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Abstract (en)

[origin: WO2016120443A1] A precoder is determined (e.g., at a base station) for a given layer and for a UE. The precoder includes a three-part product codebook structure. The determining uses CSI from the UE for the three-part product codebook structure, and the CSI corresponds to multiple antenna elements in at least a 2D array of cross-polarized antenna elements. The determined precoder is applied to information for the layer to be transmitted to the UE, and the precoded information for the layer is transmitted to the UE using the antenna elements in the at least 2D array of cross-polarized antenna elements. The UE can determine, using reference signal information transmitted using the antenna elements, the CSI corresponding to each part of a three-part product codebook structure for the layer, and report the determined CSI to the base station. Methods, apparatus, computer program products, and systems are disclosed.

IPC 8 full level

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