

Title (en)

SYSTEMS AND METHODS FOR CANCELLING CROSS POLARIZATION INTERFERENCE IN WIRELESS COMMUNICATION USING POLARIZATION DIVERSITY

Title (de)

SYSTEME UND VERFAHREN ZUR UNTERDRÜCKUNG VON KREUZPOLARISATIONSINTERFERENZ IN DER FUNKKOMMUNIKATION MITTELS POLARISATIONS DIVERSITÄT

Title (fr)

SYSTÈMES ET PROCÉDÉS D'ANNULATION DE BROUILLAGE DE POLARISATION CROISÉE DANS UNE COMMUNICATION SANS FIL À L'AIDE D'UNE DIVERSITÉ DE POLARISATIONS

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Abstract (en)

[origin: WO2013023225A1] An exemplary system may comprise a first and second device and a first and second power splitter coupled to a single cable. The first device may be configured to receive a first noise signal of a first polarization, and to adaptively cancel, based on the first noise signal, first noise from the noisy signal associated with an orthogonal polarization. The second device may be configured to receive a second noise signal of a second polarization, and to adaptively cancel second noise from the noisy signal associated with an orthogonal polarization based on the second noise signal. The first power splitter may be configured to receive the first noise signal from the single cable and provide the first noise signal to the first device. The second power splitter may be configured to receive the second noise signal from the single cable and provide the second noise signal to the second device.

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