

Title (en)

SYSTEM AND METHOD FOR WIRELESS COMMUNICATION USING POLARIZATION DIVERSITY

Title (de)

SYSTEM UND VERFAHREN ZUR FUNKKOMMUNIKATION MIT POLARISATIONSDIVERSITÄT

Title (fr)

SYSTEME ET PROCEDE DE COMMUNICATION HERTZIENNE FAISANT INTERVENIR LA DIVERSITE DE POLARISATION

Publication

EP 1169750 A4 20041208 (EN)

Application

EP 00980378 A 20001114

Priority

- US 0031273 W 20001114
- US 48988300 A 20000121

Abstract (en)

[origin: WO0154230A1] A dynamically controlled polarization diversity system and method (100) for wireless communications comprises a transmitter, such as a base station (102), for transmitting signals with an adaptively controlled polarization state to a receiver, such as a mobile station (104). The polarization state may be adaptively varied by rotating a polarization angle, of the transmit signals. In one version, the polarization angle may be substantially continuously rotated from approximately 180 degrees to approximately 0 degrees in predetermined intervals. As the transmitter transmits signals with a varying polarization state, the receiver analyses the received transmit signals at the various states. The receiver may, for example, detect the received signal strength (RSSI) at each of the polarization states. The receiver then transmits a reply signal to the transmitter indicating the relative RSSI for each of the polarization states. The transmitter thereafter transmits at the polarization state which has the highest RSSI.

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H01Q 21/24; **H04B 7/10**

IPC 8 full level

H04B 7/06 (2006.01); **H04B 7/10** (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [XY] US 5724666 A 19980303 - DENT PAUL W [SE]
- See references of WO 0154230A1

Cited by

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GB

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