

Title (en)

METHOD AND APPARATUS FOR PROVIDING ANTENNA DIVERSITY IN A PORTABLE RADIOTELEPHONE

Title (de)

VERFAHREN UND GERÄT ZUR BEREITSTELLUNG VON ANTENNENDIVERSITY IN EINEM TRAGBAREN FUNKTELEFON

Title (fr)

PROCEDE ET APPAREIL POUR INSTALLER UNE DIVERSITE D'ANTENNES DANS UN RADIOTELEPHONE PORTABLE

Publication

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Application

EP 96945286 A 19961223

Priority

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Abstract (en)

[origin: WO9724818A1] A diversity antenna system in a mobile unit which provides time, space and antenna pattern diversity to mitigate the effects of fading at a CDMA mobile unit. The system is comprised of a diversity antenna (105) and a main antenna (100). The main antenna (100) and diversity antenna (105) are physically separated and oriented such that they have different antenna gain patterns. In a first embodiment, the diversity antenna (105) functions as a receive antenna only, while the main antenna (100) performs both transmit and receive functions. In a second embodiment, both the main antenna (100) and the diversity antenna (105) transmit and receive signals. A delay circuit (130) couples the diversity antenna (105) to a summer (135) which sums the signals received by the main antenna (100) and the diversity antenna (105), respectively.

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