

Title (en)

RECEIVING DEVICE OF A RADIO SYSTEM AND METHOD FOR PROCESSING RECEIVED RADIO SIGNALS

Title (de)

EMPFANGSEINRICHTUNG EINES FUNKSYSTEMS SOWIE VERFAHREN ZUR VERARBEITUNG EMPFANGENER FUNKSIGNALE

Title (fr)

DISPOSITIF RECEPTEUR D'UN SYSTEME RADIO, ET PROCEDE DE TRAITEMENT DE SIGNAUX RADIO RE US

Publication

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Application

**EP 99923468 A 19990427**

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Abstract (en)

[origin: WO0011753A1] The invention relates to a receiving device of a radio system, having at least three receiving antennas (A1, A2, A3) to pick up radio signals. As regards their receiving direction, the three receiving antennas (A1, A2, A3) are aligned in three orthogonal directions (X, Y, Z) in relation to each other and an adjustable amplifier (V1, V2, V3) is assigned to each of the at least three receiving antennas (A1, A2, A3), the output signals of said amplifiers being sent jointly to a mixer (M). The invention aims at providing a receiving device of a radio system and a method for processing radio signals which constantly ensure good reception results regardless of the alignment of the receiving antenna array in relation to a sending antenna and regardless of the distance of the receiving antennas in relation to the sending antenna (within the maximum transmission range). According to the invention, this is achieved in that the output signals of the mixer (M) are fed to the amplifier as a uniform input variable through a gain control unit (R) serving as feedback controlled variable for the amplification factor of the amplifier (V1, V2, V3).

IPC 1-7

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