

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

EP 1118140 A1 20010725 (DE)

Application

EP 99923468 A 19990427

Priority

- DE 19838217 A 19980822
- EP 9902824 W 19990427

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

H01Q 23/00; **H01Q 21/28**; **H01Q 7/00**; **H04B 7/08**; **H03G 3/30**

IPC 8 full level

H01Q 7/00 (2006.01); **H01Q 21/28** (2006.01); **H01Q 23/00** (2006.01); **H03G 3/30** (2006.01)

CPC (source: EP)

H01Q 7/00 (2013.01); **H01Q 21/28** (2013.01); **H01Q 23/00** (2013.01); **H03G 3/3036** (2013.01)

Citation (search report)

See references of WO 0011753A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 0011753 A1 20000302; EP 1118140 A1 20010725

DOCDB simple family (application)

EP 9902824 W 19990427; EP 99923468 A 19990427