Title (en)

METHOD AND DEVICE FOR MONITORING CARRIER FREQUENCY STABILITY OF TRANSMITTERS IN A COMMON WAVE NETWORK

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG DER TRÄGERFREQUENZSTABILITÄT VON SENDERN IN EINEM GLEICHWELLENNETZ

Title (fr)

PROCEDE ET DISPOSITIF DE SURVEILLANCE DE LA STABILITE DE LA FREQUENCE PORTEUSE D'EMETTEURS DANS UN RESEAU DE FREQUENCES COMMUNES

Publication

EP 1685668 B1 20111214 (DE)

Application

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- DE 10354468 A 20031121

Abstract (en)

[origin: WO2005050882A1] The invention relates to a method which monitors carrier frequency stability (omegai) of identical transmitter signals (si (t)) in several transmitters Si of a common wave network. Said method is based on a calculation of carrier frequency displacement (DeltaomegaI) of carrier frequency (omegai) in a transmitter (Si) in relation to carrier frequency (omega0) in a reference transmitter (S0). The phase displacement difference (DeltaDeltathetai (tB2-tB1)) caused by carrier frequency displacement (Deltaomegai) between phase displacement (Deltaomegai (tB1)) is determined in order to form a moment of observation (tB1), and phase displacement (Deltathetai (tB2)) is determined at a second moment of observation (tB2) of a received signal (ei (t)) in the transmitter (Si) associated with the respective transmitter signal (si (t)) in order to form a received signal (e0(t)) of the reference transmitter (S0) associated with the reference transmitter signal (s0(t)).

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