Title (en)

APPARATUS FOR ESTIMATING TIME AND FREQUENCY OFFSET USING ANTENNA DIVERSITY IN OFDM COMMUNICATION SYSTEM AND METHOD THEREOF

Title (de)

VORRICHTUNG ZUR SCHÄTZUNG DES ZEIT- UND FREQUENZOFFSETS UNTER VERWENDUNG VON ANTENNENDIVERSITÄT IN EINEM OFDM-KOMMUNIKATIONSSYSTEM UND VERFAHREN DAFÜR

Title (fr)

APPAREIL PERMETTANT D'ESTIMER LE DECALAGE TEMPOREL ET LE DECALAGE DE FREQUENCE AU MOYEN D'ANTENNES A RECEPTION SIMULTANEE DANS UN SYSTEME DE COMMUNICATION OFDM ET PROCEDE ASSOCIE

Publication

EP 1958409 A1 20080820 (EN)

Application

EP 06824083 A 20061211

Priority

• KR 2006005377 W 20061211
• KR 20050121133 A 20051209

Abstract (en)

[origin: WO2007067018A1] Provided are an apparatus for estimating a time offset and a frequency offset and a method thereof . The method includes the steps of : a) giving weights to the signals received through the antennas and generating an input signal; b) delaying the input signal by a predetermined index and adding a square value of the delayed signal and a square value of the input signal; c) summating a predetermined number of the output value of the step b) and multiplying the summed value and a predetermined value; d) adding the input signal and a conjugated delayed signal; e) summating a predetermined number of the output value of the step d); f) detecting the maximum value of the time offset; and g) calculating a radian degree for the absolute value of the output value acquired in the step e) and calculating a frequency offset based on the detected time offset.

IPC 8 full level

H04L 27/26 (2006.01)

CPC (source: EP KR)

H04B 7/0842 (2013.01 - EP); **H04L 1/02** (2013.01 - KR); **H04L 27/26** (2013.01 - KR); **H04L 27/2657** (2013.01 - EP); **H04L 27/2662** (2013.01 - EP); **H04L 27/2676** (2013.01 - EP); H04B 7/0857 (2013.01 - EP); H04B 7/086 (2013.01 - EP)

Citation (search report)

See references of WO 2007067018A1

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DOCDB simple family (publication)

WO 2007067018 A1 20070614; EP 1958409 A1 20080820; KR 100770008 B1 20071025; KR 20070060928 A 20070613

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