

## Title (en)

METHOD FOR ESTIMATING FREQUENCY/TIME OFFSET AND APPARATUS USING THE SAME IN OFDM COMMUNICATION SYSTEM

## Title (de)

VERFAHREN ZUR SCHÄTZUNG VON FREQUENZ-/ZEITOFFSET UND DIESES VERWENDENDE VORRICHTUNG IN EINEM OFDM-KOMMUNIKATIONSSYSTEM

## Title (fr)

PROCEDE D'ESTIMATION DU DECALAGE TEMPS/FREQUENCE ET APPAREIL UTILISANT CE PROCEDE DANS UN SYSTEME DE COMMUNICATION OFDM

## Publication

**EP 1825625 A4 20130102 (EN)**

## Application

**EP 05780670 A 20050721**

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- KR 20040105798 A 20041214

## Abstract (en)

[origin: WO2006065016A1] Provided is a frequency and time offset estimation method and apparatus using the same for an orthogonal frequency division multiplexing (OFDM) communication system. The invention can establish frequency and time synchronization while improving data transmission rate in the OFDM communication system by estimating a time offset and a decimal of frequency offset using a first OFDM symbol and a Cyclic Prefix (CP) of an OFDM frame and compensating a received signal based thereon in a time domain, and estimating an integer of the frequency offset using the compensated signal and again compensating the compensated received signal based on the estimated integer of the frequency offset in a frequency domain.

## IPC 8 full level

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## Citation (search report)

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## Cited by

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