

Title (en)

REDUCED COMPLEXITY SLIDING WINDOW BASED EQUALIZER

Title (de)

ENTZERRER AUF SLIDING-WINDOW-BASIS MIT VERRINGERTER KOMPLEXITÄT

Title (fr)

EGALISEUR BASE SUR FENETRE DE GLISSEMENT A COMPLEXITE REDUITE

Publication

**EP 1636900 A4 20070418 (EN)**

Application

**EP 04756111 A 20040624**

Priority

- US 2004020427 W 20040624
- US 48233303 P 20030625

Abstract (en)

[origin: WO2005004338A2] The present invention has many aspects. One aspect of the invention is to perform equalization using a sliding window approach. A second aspect reuses information derived for each window for use by a subsequent window. A third aspect utilizes a discrete Fourier transform based approach for the equalization. A fourth aspect relates to handling oversampling of the received signals and channel responses. A fifth aspect relates to handling multiple reception antennas. A sixth embodiment relates to handling both oversampling and multiple reception antennas.

IPC 8 full level

**H04L 25/03** (2006.01); **H03D 1/04** (2006.01); **H04B 1/707** (2011.01)

IPC 8 main group level

**H04B** (2006.01)

CPC (source: EP KR)

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Citation (search report)

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- [X] VOLLMER ET AL: "Joint-Detection using Fast Fourier Transforms in TD-CDMA based Mobile Radio Systems", PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS ICT, 1999, pages 1 - 7, XP002190679
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- See references of WO 2005004338A2

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DOCDB simple family (publication)

**WO 2005004338 A2 20050113; WO 2005004338 A3 20050512**; AR 044904 A1 20051005; CA 2530518 A1 20050113; CN 101048934 A 20071003; CN 101048934 B 20100908; EP 1636900 A2 20060322; EP 1636900 A4 20070418; JP 2007525081 A 20070830; JP 4213747 B2 20090121; KR 100768737 B1 20071022; KR 100937465 B1 20100119; KR 100937467 B1 20100119; KR 20060057634 A 20060526; KR 20060063803 A 20060612; KR 20090079265 A 20090721; MX PA05013518 A 20060309; NO 20060421 L 20060323; TW 200507552 A 20050216; TW 200537868 A 20051116; TW 200818790 A 20080416; TW I257793 B 20060701

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