

Title (en)

DIGITAL BROADCASTING TRANSMISSION/ RECEPTION CAPABLE OF IMPROVING A RECEIVING PERFORMANCE AND A SIGNAL PROCESSING METHOD THEREOF

Title (de)

SENDEN/EMPFANGEN FÜR DIGITAL-BROADCAST MIT DER FÄHIGKEIT ZUR VERBESSERUNG EINER EMPFANGSLEISTUNGSFÄHIGKEIT UND SIGNALVERARBEITUNGSVERFAHREN DAFÜR

Title (fr)

EMISSION/RECEPTION DE RADIODIFFUSION NUMERIQUE AMELIORANT LES PERFORMANCES DE RECEPTION, ET PROCEDE DE TRAITEMENT DE SIGNAUX ASSOCIE

Publication

EP 1645126 A4 20110413 (EN)

Application

EP 04773906 A 20040610

Priority

- KR 2004001383 W 20040610
- US 48691503 P 20030715
- KR 20030064001 A 20030916

Abstract (en)

[origin: WO2005006750A1] A digital broadcasting transmission/reception system having an improved receiving performance and a signal processing method thereof. The transmission system includes a FEC encoder encoding an incoming signal according to a certain FEC scheme, a sync insertion unit inserting a sync into the encoded signal, a hidden pilot insertion unit inserting a hidden pilot into the sync-inserted signal, a pilot insertion unit inserting a pilot tone into the hidden-pilot-inserted signal, a pulse shaping filter pulse-shaping the pilot-tone-inserted signal with a certain roll-off factor, and a RF unit transmitting the pulse-shaped signal through a transmission channel band. Performances of equalization and synchronization acquirement can be enhanced in multipath conditions by utilizing the transmission system containing the hidden pilot.

IPC 8 full level

H04N 5/00 (2006.01); **H04N 5/21** (2006.01); **H04N 7/015** (2006.01); **H04N 7/24** (2006.01); **H04N 5/44** (2006.01)

CPC (source: EP)

H04N 5/211 (2013.01); **H04N 21/2383** (2013.01); **H04N 21/242** (2013.01); **H04N 21/4382** (2013.01); **H04N 21/426** (2013.01)

Citation (search report)

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- [A] TUGNAIT J K ET AL: "On channel estimation using superimposed training and first-order statistics", PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING (ICASSP'03) 6-10 APRIL 2003 HONG KONG, CHINA; [IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP)], 2003 IEEE INTERNATIONAL CONFERENCE, vol. 4, 6 April 2003 (2003-04-06), pages IV_624 - IV_627, XP010641237, ISBN: 978-0-7803-7663-2, DOI: 10.1109/ICASSP.2003.1202720
- See references of WO 2005006750A1

Citation (examination)

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Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

WO 2005006750 A1 20050120; EP 1645126 A1 20060412; EP 1645126 A4 20110413

DOCDB simple family (application)

KR 2004001383 W 20040610; EP 04773906 A 20040610