

Title (en)

DAB-compatible transmitting and receiving method and system for terrestrial mobile multimedia broadcasting

Title (de)

DAB-kompatibles Verfahren und System zum Senden und Empfangen für terrestrischen mobilen Multimediarundfunk

Title (fr)

Procédé et système de transmission et de réception compatible DAB pour diffusion multimédia mobile terrestre

Publication

EP 1841106 A3 20111102 (EN)

Application

EP 07104721 A 20070323

Priority

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- CN 200610160929 A 20061201

Abstract (en)

[origin: EP1841106A2] The present invention discloses a DAB-compatible transmitting method for terrestrial mobile multimedia broadcasting in which service type of multimedia broadcasting is predefined to be including terrestrial mobile multimedia broadcasting (T-MMB) service, the method comprises the steps of receiving multimedia broadcasting service data and performing sequentially source coding and channel coding on said service data according to their service type; embedding the encoded data into the main service channel (MSC) of the system in a time division multiplex mode, identifying accordingly information on subchannel, etc. corresponding to the service data in the fast information channel (FIC) of the system, and performing channel coding on the data in FIC; performing channel modulation, OFDM modulation and radio frequency (RF) modulation on the channel-modulated data of FIC, MSC according to the transmission mode and the channel modulation scheme, and then sending them out. With the invention, it is possible to effectively transmit multiple types of multimedia broadcasting service data in a mobile environment. The invention also discloses a DAB-compatible system and reception method for terrestrial mobile multimedia broadcasting.

IPC 1-7

H04H 1/00

IPC 8 full level

H04H 20/46 (2008.01); **H04H 20/72** (2008.01); **H04H 20/57** (2008.01); **H04H 20/86** (2008.01); **H04H 40/27** (2008.01)

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Citation (search report)

- [XYI] "Radio Broadcasting Systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers European Broadcasting Union Union Européenne de Radio-Télévision EBUÛER; Final draft ETSI EN 300 401", ETSI STANDARDS, LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE, vol. BC, no. V1.4.1, 1 January 2006 (2006-01-01), XP014032143, ISSN: 0000-0001
- [Y] "Digital Radio Mondiale (DRM); System Specification European Broadcasting Union Union Européenne de Radio-Télévision EBUÛER; ETSI ES 201 980", 2. AVC MEETING; 23-05-1991 - 31-05-1991; PARIS ; (CCITT SGXV EXPERTGROUP FOR ATM VIDEO CODING), LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE, vol. BC, no. V2.2.1, 1 October 2005 (2005-10-01), XP014032187, ISSN: 0000-0001
- [A] NEUMANN C ET AL: "ANALYSIS OF FEC CODES FOR PARTIALLY RELIABLE MEDIA BROADCASTING SCHEMES", LECTURE NOTES IN COMPUTER SCIENCE/MICCAI 2000, SPRINGER, DE, vol. 3311, 16 November 2004 (2004-11-16), pages 108 - 119, XP002400261, ISBN: 978-3-540-24128-7
- [A] "Digital Audio Broadcasting (DAB); Guidelines and rules for implementation and operation; Part 2: System features; ETSI TR 101 496-2", 2. AVC MEETING; 23-05-1991 - 31-05-1991; PARIS ; (CCITT SGXV EXPERTGROUP FOR ATM VIDEO CODING), LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE, vol. BC, no. V1.1.2, 1 May 2001 (2001-05-01), XP014004881, ISSN: 0000-0001
- [A] "Digital Audio Broadcasting (DAB); Guidelines and rules for implementation and operation; Part 1: System outline; ETSI TR 101 496-1", 2. AVC MEETING; 23-05-1991 - 31-05-1991; PARIS ; (CCITT SGXV EXPERTGROUP FOR ATM VIDEO CODING), LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE, vol. BC, no. V1.1.1, 1 November 2000 (2000-11-01), XP014004879, ISSN: 0000-0001

Cited by

EP2213094A4; EP2306724A4; US8630278B2; US9246806B2

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