

Title (en)  
 APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING 3D STEREOSCOPIC DIGITAL BROADCAST SIGNAL BY USING 3D STEREOSCOPIC VIDEO ADDITIONAL DATA

Title (de)  
 VORRICHTUNG UND VERFAHREN ZUM SENDEN/EMPFANGEN EINES STEREOSKOPISCHEN DIGITALEN 3D-AUSSTRAHLUNGSSIGNALS DURCH VERWENDUNG VON ZUSÄTZLICHEN STEREOSKOPISCHEN 3D-VIDEODATEN

Title (fr)  
 DISPOSITIF ET PROCEDE POUR LA TRANSMISSION/RECEPTION DE SIGNAL DE DIFFUSION NUMERIQUE STEREOSCOPIQUE 3D PAR LE BIAIS DE DONNEES VIDEO STEREOSCOPIQUES 3D SUPPLEMENTAIRES

Publication  
**EP 1751979 A4 20091223 (EN)**

Application  
**EP 04808260 A 20041130**

Priority  
 • KR 2004003129 W 20041130  
 • KR 20040036566 A 20040521

Abstract (en)  
 [origin: WO2005114998A1] Provided are a three-dimensional (3D) stereoscopic digital broadcasting transmitting/receiving apparatus and method using 3D stereoscopic video additional data. The apparatus and method is compatible with a two-dimensional (2D) digital broadcasting system by defining and processing 3D stereoscopic video additional data, such as another 3D video, disparity information, and depth information, as an additional stream added to a 2D video transport stream, which is different from the conventional method that provides a 3D stereoscopic digital broadcasting system by using video of another viewpoint. The 3D stereoscopic digital broadcast transmitting apparatus includes: a video acquiring unit; an audio data acquiring unit, an encoding unit, a program specific information (PSI) generating unit, a packetizing unit, a transport stream (TS) generating unit, a multiplexing unit, and a modulating unit.

IPC 8 full level  
**H04N 7/08** (2006.01); **H04H 20/28** (2008.01); **H04H 20/95** (2008.01); **H04N 7/173** (2011.01); **H04N 13/00** (2006.01); **H04N 21/235** (2011.01); **H04N 21/236** (2011.01); **H04N 21/431** (2011.01); **H04N 21/435** (2011.01)

CPC (source: EP KR)  
**H04N 7/08** (2013.01 - KR); **H04N 13/178** (2018.04 - EP); **H04N 13/194** (2018.04 - EP); **H04N 19/597** (2014.11 - EP); **H04N 21/235** (2013.01 - EP); **H04N 21/23614** (2013.01 - EP); **H04N 21/2365** (2013.01 - EP); **H04N 21/2389** (2013.01 - EP); **H04N 21/4348** (2013.01 - EP); **H04N 21/435** (2013.01 - EP)

Citation (search report)  
 • [YA] US 2003095177 A1 20030522 - YUN KUG-JIN [KR], et al  
 • [A] US 2004032488 A1 20040219 - HARMAN PHILIP VICTOR [AU]  
 • [A] EP 1389020 A1 20040211 - KOREA ELECTRONICS TELECOMM [KR]  
 • [XY] CHRISTOPH FEHN ET AL: "Broadcast Transmission of 3D-TV Data", JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG(ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, no. M9875, 15 July 2003 (2003-07-15), XP030038766  
 • [A] "Information technology - Generic coding of moving pictures and associated audio information: Systems; H.222.0 (02/00)", ITU-T STANDARD IN FORCE (I), INTERNATIONAL TELECOMMUNICATION UNION, GENEVA, CH, no. H.222.0 (02/00), 1 February 2000 (2000-02-01), XP017401300  
 • [A] "Information technology - Generic coding of moving pictures and associated audio information: Systems; H.222.0 (2000) Amendment 3 (03/04); Transport of AVC video data over ITU-T Rec. H.222.0 # ISO/IEC 13818-1 streams", ITU-T STANDARD IN FORCE (I), INTERNATIONAL TELECOMMUNICATION UNION, GENEVA, CH, no. H.222.0 (2000) Amend, 15 March 2004 (2004-03-15), XP017401307  
 • [Y] SUKHEE CHO ET AL: "Limitations on 3D real video coding using MAC", JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG(ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, no. M8627, 25 July 2002 (2002-07-25), XP030037583  
 • [A] REDERT A ET AL: "ATTEST: advanced three-dimensional television system technologies", 3D DATA PROCESSING VISUALIZATION AND TRANSMISSION, 2002. PROCEEDINGS. FIRST INTERNATIONAL SYMPOSIUM ON JUNE 19-21, 2002, PISCATAWAY, NJ, USA, IEEE, 19 June 2002 (2002-06-19), pages 313 - 319, XP010596672, ISBN: 978-0-7695-1521-2  
 • See references of WO 2005114998A1

Cited by  
 US9674502B2; US8953019B2

Designated contracting state (EPC)  
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005114998 A1 20051201**; CN 100563324 C 20091125; CN 1954606 A 20070425; EP 1751979 A1 20070214; EP 1751979 A4 20091223; JP 2008500790 A 20080110; JP 4828535 B2 20111130; KR 100585966 B1 20060601; KR 20050111379 A 20051124

DOCDB simple family (application)  
**KR 2004003129 W 20041130**; CN 200480043102 A 20041130; EP 04808260 A 20041130; JP 2007526966 A 20041130; KR 20040036566 A 20040521