

Title (en)  
METHOD AND APPARATUS FOR SYNCHRONIZING DATA SERVICE WITH VIDEO SERVICE IN DIGITAL MULTIMEDIA BROADCASTING

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM SYNCHRONISIEREN EINES DATENDIENSTES MIT EINEM VIDEODIENST BEI DER DIGITAL-MULTIMEDIA-AUSSTRAHLUNG

Title (fr)  
PROCEDE ET APPAREIL DE SYNCHRONISATION D'UN SERVICE DE DONNEES AVEC UN SERVICE VIDEO DANS UNE RADIODIFFUSION MULTIMEDIA NUMERIQUE

Publication  
**EP 1884115 A4 20080806 (EN)**

Application  
**EP 06768652 A 20060526**

Priority  
• KR 2006002011 W 20060526  
• KR 20050044579 A 20050526  
• KR 20050080642 A 20050831

Abstract (en)  
[origin: WO2006126852A1] Provided is a method and apparatus for transmitting an metadata synchronized with audio/vidieo (AV) data on a satellite, terrestrial, cable or proprietary digital broadcasting network. The method includes the steps of : a) receiving an AV time stamp for the AV data; b) calculating a time stamp of the data, which is information on a time point when the data are to be presented in a user terminal, which will be shortly referred to as data time stamp hereinafter, based on the AV time stamp; c) generating sync metadata including the calculated data time stamp; and d) encoding the sync metadata and transmitting the encoded sync metadata.

IPC 8 full level  
**H04N 7/52** (2011.01)

CPC (source: EP KR)  
**H04H 20/28** (2013.01 - EP); **H04H 60/06** (2013.01 - EP); **H04N 7/00** (2013.01 - KR); **H04N 7/56** (2013.01 - EP); **H04N 21/23614** (2013.01 - EP); **H04N 21/242** (2013.01 - KR); **H04N 21/4348** (2013.01 - EP)

Citation (search report)  
• [XY] EP 0680216 A2 19951102 - THOMSON CONSUMER ELECTRONICS [US]  
• [A] WO 0126369 A1 20010412 - WEBTV NETWORKS INC [US]  
• [A] EP 1343323 A2 20030910 - CHELLO BROADBAND NV [NL]  
• [YD] "Digital Audio Broadcasting (DAB); DMB video service; User Application Specification European Broadcasting Union Union Européenne de Radio-Télévision EBUÛER; ETSI TS 102 428", ETSI STANDARDS, LIS, vol. BC, no. V1.1.1, 1 January 2005 (2005-01-01), XP014030465, ISSN: 0000-0001  
• [A] "DRAFT VERSION 1.1R26 UPDATED 02/02/99; STATE OF THIS DOCUMENT", ADVANCED TELEVISION ENHANCEMENT FORUM SPECIFICATION (ATVEF), XX, XX, 1 February 1998 (1998-02-01), pages 1 - 37, XP002935044  
• [A] "Digital Audio Broadcasting (DAB); MOT Slide Show; User Application Specification; ETSI TS 101 499", ETSI STANDARDS, LIS, vol. BC, no. V1.1.1, 1 July 2001 (2001-07-01), XP014006407, ISSN: 0000-0001  
• See references of WO 2006126852A1

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

DOCDB simple family (publication)  
**WO 2006126852 A1 20061130**; EP 1884115 A1 20080206; EP 1884115 A4 20080806; KR 100837720 B1 20080613; KR 20060122784 A 20061130

DOCDB simple family (application)  
**KR 2006002011 W 20060526**; EP 06768652 A 20060526; KR 20060047717 A 20060526