

Title (en)
A METHOD AND SYSTEM FOR SYNCHRONIZING AND NAVIGATING MULTIPLE STREAMS OF ISOCHRONOUS AND NON-ISOCHRONOUS DATA

Title (de)
VERFAHREN UND SYSTEM ZUR SYCHRONISATION UND NAVIGATION VON MULTIPLLEN STRÖMEN VON ISOCHRONEN UND NICHT-ISOCHRONEN DATEN

Title (fr)
PROCEDE ET SYSTEME DE SYNCHRONISATION DE, ET DE NAVIGATION SUR, PLUSIEURS FLUX DE DONNEES ISOCHRONES ET NON ISOCHRONES

Publication
EP 0895617 A4 19990714 (EN)

Application
EP 97924520 A 19970424

Priority
• US 9706982 W 19970424
• US 63835096 A 19960426

Abstract (en)
[origin: WO9741504A1] A method and system for synchronizing multiple streams of isochronous and non-isochronous data (100) and navigating through the synchronized streams by reference to a common time base (210) and by means of a structured framework of conceptual events provides computer users with an effective means to interact with multimedia programs of speakers giving presentations (400). The multimedia programs consisting of synchronized video, audio, graphics, text, hypertext, and other data types can be stored on a server (130), and users can navigate and play them from a client CPU (110) over a non-isochronous network connection (150).

IPC 1-7
G06F 3/00; **G06F 3/14**; **G06F 13/00**; **G06F 13/42**

IPC 8 full level
G06F 3/01 (2006.01); **G06F 3/16** (2006.01); **G06F 17/30** (2006.01); **G11B 20/10** (2006.01); **H04N 7/173** (2006.01); **H04N 21/231** (2011.01); **H04N 21/242** (2011.01)

CPC (source: EP US)
G06F 16/40 (2018.12 - EP); **G06F 16/41** (2018.12 - US)

Citation (search report)
• [XY] US 5442744 A 19950815 - PIECH MICHAEL [US], et al
• [Y] EP 0597798 A1 19940518 - IBM [US]
• [X] BERRA P B ET AL: "ARCHITECTURE FOR DISTRIBUTED MULTIMEDIA DATABASE SYSTEMS", COMPUTER COMMUNICATIONS, vol. 13, no. 4, 1 May 1990 (1990-05-01), pages 217 - 231, XP000126283
• [Y] MAIER D ET AL: "STORAGE SYSTEM ARCHITECTURES FOR CONTINUOUS MEDIA DATA", FOUNDATIONS OF DATA ORGANIZATION AND ALGORITHMS 1993, 1 January 1993 (1993-01-01), pages 1 - 18, XP000541905
• [Y] GIBBS S ET AL: "AUDIO/VIDEO DATABASES: AN OBJECT-ORIENTED APPROACH", PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DATA ENGINEERING, VIENNA, APR. 19 - 23, 1993, no. CONF. 9, 19 April 1993 (1993-04-19), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 381 - 390, XP000380196
• [Y] LOEB S.: "Architecting personalized delivery of multimedia information", COMMUN. ACM, vol. 35, no. 12, December 1992 (1992-12-01), USA, pages 39 - 48, XP002102709 & DATABASE INSPEC INSTITUTE OF ELECTRICAL ENGINEERS, STEVENAGE, GB;
• [Y] ANONYMOUS: "Illustrated Placeholders for Slider Controls in a Multimedia Environment", IBM TECHNICAL DISCLOSURE BULLETIN, vol. 37, no. 11, November 1994 (1994-11-01), New York, US, pages 63 - 66, XP002102710
• See references of WO 9741504A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9741504 A1 19971106; AU 2992297 A 19971119; CA 2252490 A1 19971106; EP 0895617 A1 19990210; EP 0895617 A4 19990714; JP 2000510622 A 20000815

DOCDB simple family (application)
US 9706982 W 19970424; AU 2992297 A 19970424; CA 2252490 A 19970424; EP 97924520 A 19970424; JP 53906497 A 19970424