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(54) Title: RECORDING MEDIUM, REPRODUCTION APPARATUS, RECORDING METHOD, REPRODUCING METHOD,
PROGRAM, AND INTEGRATED CIRCUIT FOR RECORDING A VIDEO STREAM AND GRAPHICS WITH WINDOW IN-
FORMATION OVER GRAPHICS DISPLAY

window_definition_segment

window_id
window_horizontal_position
window_vertical_position
window_width
window_height

(57) Abstract: A recording medium storing an AVClip structured by multiplexing video stream and a graphics stream. The VIDEO graphics stream represents a moving picture made of a plurality of pictures, and the graphics stream includes graphics data representing graphics to be combined with the pictures. The graphics stream also includes window information (WDS) that specifies a window for rendering the graphics, and that indicates a width, a height and a position of the window on a plane which is a plane memory of a reproduction apparatus that combines the graphics with the pictures.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G11B27/10 G11B27/034 G11B27/036 G11B27/038 G11B27/34
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G11B H04N G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Digital Video Broadcasting (DVB); Subtitling systems; Final draft ETSI EN 300 743" ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. BC, no. V121, June 2002 (2002-06), XP014001876 ISSN: 0000-0001 cited in the application the whole document	1,3-7, 9-16

Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Barel-Faucheux, C
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/JP2004/006074

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1145218	A	17-10-2001	AT 267439 T	15-06-2004
			AU 1910800 A	29-05-2000
			DE 69917489 D1	24-06-2004
			EP 1145218 A2	17-10-2001
			EP 1365385 A2	26-11-2003
			US 2002145613 A1	10-10-2002
			WO 0028518 A2	18-05-2000
			US 2003117406 A1	26-06-2003
			US 2003158987 A1	21-08-2003
			US 2003206174 A1	06-11-2003
			US 6380945 B1	30-04-2002
			US 6744472 B1	01-06-2004
			US 6570579 B1	27-05-2003
			US 6189064 B1	13-02-2001
			US 6608630 B1	19-08-2003
			US 6661427 B1	09-12-2003
			US 6738072 B1	18-05-2004
			US 6700588 B1	02-03-2004
			US 6501480 B1	31-12-2002
			US 6630945 B1	07-10-2003
			US 6731295 B1	04-05-2004
			US 2004017398 A1	29-01-2004
			US 6768774 B1	27-07-2004
			US 2004056864 A1	25-03-2004
			US 2004056874 A1	25-03-2004
			US 6529935 B1	04-03-2003
			US 2004130558 A1	08-07-2004
			US 2004150652 A1	05-08-2004
			US 2004177190 A1	09-09-2004
			US 2004177191 A1	09-09-2004
			US 2004169660 A1	02-09-2004
US 6275852	B1	14-08-2001	US 6182123 B1	30-01-2001
			US 5758072 A	26-05-1998
			US 5594910 A	14-01-1997
			US 5347632 A	13-09-1994
			US 6199100 B1	06-03-2001
			US 2003167307 A1	04-09-2003
			US 2003018527 A1	23-01-2003
			US 6195661 B1	27-02-2001
			US 5796967 A	18-08-1998
			US 5442771 A	15-08-1995
			CA 1337132 C	26-09-1995
			CA 1338423 C	25-06-1996
			CA 1341310 C	23-10-2001
EP 0920014	A	02-06-1999	CA 2257316 A1	22-10-1998
			EP 0920014 A1	02-06-1999
			US 2003086686 A1	08-05-2003
			WO 9847146 A1	22-10-1998
			KR 2000016596 A	25-03-2000
US 2001026561	A1	04-10-2001	CN 1381148 T	20-11-2002
			WO 0176256 A1	11-10-2001
			EP 1275257 A1	15-01-2003
			JP 2003530037 T	07-10-2003
US 6473102	B1	29-10-2002	US 2002186253 A1	12-12-2002

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/JP2004/006074

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6473102	B1	US 2002191026 A1	19-12-2002

INTERNATIONAL SEARCH REPORT

International Application No

/JP2004/006074

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 145 218 A (BROADCOM CORP) 17 October 2001 (2001-10-17) page 2, line 5 - page 4, line 2 page 5, line 3 - page 6, line 7 page 7, line 29 - line 35 page 9, line 46 - page 12, line 35 page 13, line 52 - page 14, line 2 figures 1-3,6 -----	1-16
A	US 6 275 852 B1 (ABRAHAMS LAWRENCE ET AL) 14 August 2001 (2001-08-14) column 3, line 41 - column 4, line 38 column 10, line 7 - line 37 column 10, line 66 - column 11, line 8 column 11, line 47 - column 12, line 53 column 13, line 11 - column 15, line 25 column 16, line 21 - column 17, line 37 column 18, line 18 - column 22, line 29 column 50, line 6 - line 27 column 50, line 42 - column 51, line 8 column 51, line 19 - line 67 column 52, line 52 - line 65 column 54, line 32 - line 55 column 59, line 27 - line 56 column 61, line 23 - line 34 column 62, line 40 - column 63, line 25 column 64, line 22 - line 36 figures 3A-5B -----	1-16
A	EP 0 920 014 A (SONY CORP) 2 June 1999 (1999-06-02) column 33, line 45 - column 34, line 5 figures 12-18,31A,31B,36A,36B -----	1-16
A	US 2001/026561 A1 (MORRIS OCTAVIUS J ET AL) 4 October 2001 (2001-10-04) the whole document -----	1-16
A	US 6 473 102 B1 (FULLERTON GUYERIK B ET AL) 29 October 2002 (2002-10-29) the whole document -----	1-16