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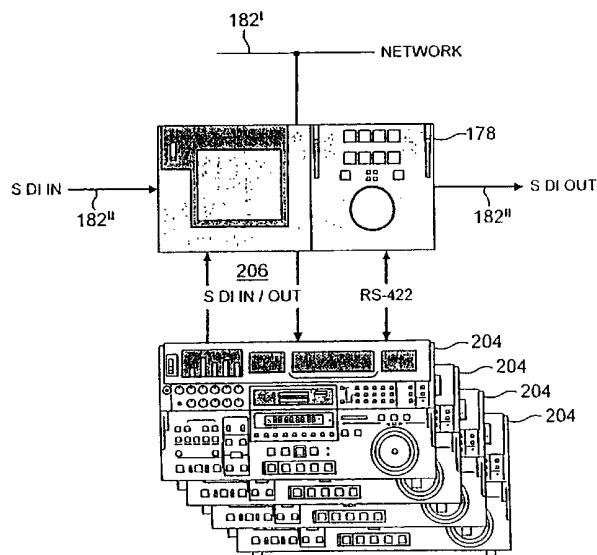
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[Continued on next page]

(54) Title: AUDIO/VIDEO REPRODUCING APPARATUS AND METHOD



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(57) Abstract: The apparatus is connectable to a communications network for selectively reproducing items of audio/video material from a recording medium in response to a request received via the telecommunications network. It may comprise a control processor which receives data representing the request for the audio/video material item via the communications network. A reproducing processor is operable in response to signals identifying the audio/video material items from the control processor to reproduce the audio/video material items. The data identifying the audio/video material items includes meta data indicative of the audio/video material items. The meta data may be one of UMID, tape ID and time codes, and a Unique Material Identifier for the material items. It comprises an activity detector and a meta data generator coupled to the activity detector which is operable to generate sample images at temporal positions within the audio/video signal.



**(84) Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	G11B27/031	G11B27/28	G11B27/11	G06F17/30	H04N5/222
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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)

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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, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 915 622 A (MATSUSHITA ELECTRIC IND CO LTD) 12 May 1999 (1999-05-12) page 3, paragraph 8 -page 4, line 18; figure 2	1-3,10, 14,55-58
Y	---	4-9,12, 13
Y	GB 2 312 078 A (SONY UK LTD ;SONY CORP (JP)) 15 October 1997 (1997-10-15) the whole document	6-9,12, 13
A	---	1,2,14, 15, 17-19, 25,36, 38-40, 43-52,54
	---	-/-

Further documents are listed in the continuation of box C.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 038 368 A (BOETJE GERARD J ET AL) 14 March 2000 (2000-03-14) the whole document	1,2,10, 14,38-43
Y	---	4-9
A		46-48,54
X	WO 97 39411 A (AVID TECHNOLOGY INC) 23 October 1997 (1997-10-23)	1,2, 8-10,14, 38,39, 45,46, 52,54
A	the whole document	7,40,43
X	US 5 805 733 A (NORMILE JAMES ET AL) 8 September 1998 (1998-09-08)	15, 17-21, 23,24, 36,49,50
A	the whole document	1,10,11, 14,38,46
E	EP 1 102 271 A (SONY UK LTD) 23 May 2001 (2001-05-23)	1-58
L	the whole document priority, same applicant	
A	WO 99 36918 A (AVID TECHNOLOGY INC) 22 July 1999 (1999-07-22) the whole document	14,26-35
A	---	
A	US 5 910 825 A (TAKEUCHI HAJIME) 8 June 1999 (1999-06-08)	1,6,14, 38,39, 46,54
	the whole document	
P,A	WILKINSON J H ET AL: "TOOLS AND TECHNIQUES FOR GLOBALLY UNIQUE CONTENT IDENTIFICATION" SMPTE JOURNAL, SMPTE INC. SCARSDALE, N.Y., US, vol. 109, no. 10, October 2000 (2000-10), pages 795-799, XP000969315 ISSN: 0036-1682	1,7,14, 15,26
L	the whole document this Doc. is of Cat."A", see footnote at page 795: "Presented at IBC99 in Amsterdam, The Netherlands, September 10-14, 1999"	
	---	-/-

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 01/01452

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	EP 1 083 567 A (SONY UK LTD) 14 March 2001 (2001-03-14)	1,6,7, 12-15, 38,43, 45-47, 49,50, 54-58
L	the whole document priority, the same applicant ---	
P,A	EP 1 083 568 A (SONY UK LTD) 14 March 2001 (2001-03-14)	1,6,7, 11-15, 26, 36-38, 43,46, 54-58
L	the whole document priority, the same applicant ---	
A	US 5 771 330 A (YAMAMURA KAZUMASA ET AL) 23 June 1998 (1998-06-23) the whole document ---	1-10,14, 38-44,46
A	EP 0 902 431 A (PHILIPS PATENTVERWALTUNG ;KONINKL PHILIPS ELECTRONICS NV (NL)) 17 March 1999 (1999-03-17) the whole document -----	1,10,11, 14,26, 36-38,46
1		

# INTERNATIONAL SEARCH REPORT

## Information on patent family members

International Application No
PCT/GB 01/01452

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
EP 0915622	A 12-05-1999	JP 11231849 A	CN 1248022 A	EP 0915622 A2	27-08-1999 22-03-2000 12-05-1999
GB 2312078	A 15-10-1997	NONE			
US 6038368	A 14-03-2000	US 6289167 B1			11-09-2001
WO 9739411	A 23-10-1997	US 5852435 A AU 716590 B2 AU 2456597 A CA 2251225 A1 DE 69704942 D1 EP 1072983 A2 EP 0895623 A1 JP 2001502461 T WO 9739411 A1 US 6211869 B1			22-12-1998 02-03-2000 07-11-1997 23-10-1997 28-06-2001 31-01-2001 10-02-1999 20-02-2001 23-10-1997 03-04-2001
US 5805733	A 08-09-1998	NONE			
EP 1102271	A 23-05-2001	GB 2359918 A BR 0005253 A EP 1102276 A1 EP 1102277 A1 EP 1098522 A1 EP 1102271 A1 GB 2356080 A JP 2001184802 A JP 2001195868 A EP 1130594 A1 US 2001019657 A1			05-09-2001 19-06-2001 23-05-2001 23-05-2001 09-05-2001 23-05-2001 09-05-2001 06-07-2001 19-07-2001 05-09-2001 06-09-2001
WO 9936918	A 22-07-1999	AU 2104499 A EP 1050048 A1 WO 9936918 A1			02-08-1999 08-11-2000 22-07-1999
US 5910825	A 08-06-1999	WO 9636177 A1 US 5822019 A			14-11-1996 13-10-1998
EP 1083567	A 14-03-2001	GB 2354104 A EP 1083567 A2 JP 2001143445 A			14-03-2001 14-03-2001 25-05-2001
EP 1083568	A 14-03-2001	GB 2354105 A EP 1083568 A2 JP 2001155036 A			14-03-2001 14-03-2001 08-06-2001
US 5771330	A 23-06-1998	GB 2296600 A ,B GB 2326518 A ,B GB 2329752 A ,B WO 9605695 A1			03-07-1996 23-12-1998 31-03-1999 22-02-1996
EP 0902431	A 17-03-1999	DE 19740119 A1 EP 0902431 A2 JP 11162107 A US 6185538 B1			18-03-1999 17-03-1999 18-06-1999 06-02-2001