(19) World Intellectual Property Organization

International Bureau



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(43) International Publication Date 5 June 2003 (05.06.2003)

PCT

(10) International Publication Number WO 2003/046908 A3

(51) International Patent Classification⁷: G11B 20/00, 20/12

(21) International Application Number:

PCT/JP2002/011223

(22) International Filing Date: 29 October 2002 (29.10.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 2001-360545 27 November 2001 (27.11.2001) JP

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Kamikamida, Neyagawa-shi, Osaka 572-0052 (JP). **OCHI, Makoto**; 3-32-1-301, Nasudukuri, Hirakata-shi, Osaka 573-0071 (JP). **ITO, Takayuki**; Shokoryo 213, 25-3, Mido-cho, Kadoma-shi, Osaka 571-0064 (JP).

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(81) Designated States (national): CN, IN, KR.

(84) Designated States (regional): European patent (DE, FR, GB).

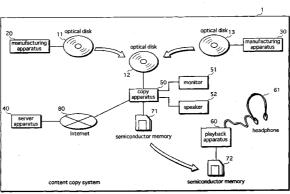
Published:

with international search report

(88) Date of publication of the international search report: 29 April 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECORDING MEDIUM AND COPY APPARATUS



(57) Abstract: A recording medium and copy apparatus reduce user confusion when copying digital data recorded on a recording medium by notifying the user in advance of copy control information embedded in the digital data as a watermark or the like. The recording medium on which the digital data is recorded is composed of a content data storage area, a display-use copy control information storage area that stores display-use copy control information that is for displaying copy control information when copying, and an index information storage area. Since the display-use copy control information in the display-use copy control information storage area is identical to copy control information embedded in the digital data, the copy apparatus is able to notify the user of the copy control information before copying the digital data.



International Application No PCT/JP 02/11223

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B20/00 G11B20/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{G11B} \end{array}$

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, IBM-TDB, COMPENDEX

| | ENTS CONSIDERED TO BE RELEVANT | | |
|--|---|---|---|
| Category ° | Citation of document, with indication, where appropriate, of t | he relevant passages | Relevant to claim No. |
| X | EP 0 855 837 A (SONY CORP) 29 July 1998 (1998-07-29) figures 7-11 column 2, line 28 - line 58 column 4, line 36 - column 6, column 11, line 32 - column 16 column 22, line 20 - column 23 | 5, line 1 | 1,3-5, 8-10,12, 16 |
| X | EP 1 126 453 A (MATSUSHITA ELE LTD) 22 August 2001 (2001-08-2 abstract paragraph '0039! - paragraph paragraph '0058! - paragraph | 22) | 1,2 |
| X | EP 0 969 462 A (PIONEER ELECTE 5 January 2000 (2000-01-05) abstract | 1,2 | |
| χ Furti | her documents are listed in the continuation of box C. | Patent family members are listed | in annex. |
| Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search | | "T" later document published after the interest or priority date and not in conflict with cited to understand the principle or the invention. "X" document of particular relevance; the connot be considered novel or cannot involve an inventive step when the decannot be considered to involve an indocument is combined with one or mements, such combination being obvious in the art. "&" document member of the same patent. | the application but early underlying the claimed invention to considered to curnent is taken alone claimed invention ventive step when the ore other such docuus to a person skilled family |
| 2 | 3 December 2003 | 16/01/2004 | |
| Name and r | 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, | Authorized officer Schiwy-Rausch, G | |

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PCT/JP 02/11223

| | | PC1/JP U2/11223 |
|------------|---|------------------------|
| | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | |
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Υ | US 5 729 516 A (MORIYAMA YOSHIAKI ET AL) 17 March 1998 (1998-03-17) abstract; figures 3-5,7,8 | 1-5, 8-10, 12-16 |
| | column 1, line 37 - column 3, line 67 column 9, line 19 - column 12, line 19 column 17, line 24 - column 20, line 65 | |
| Y | BLOOM J A ET AL: "COPY PROTECTION FOR DVD VIDEO" PROCEEDINGS OF THE IEEE, IEEE. NEW YORK, | 1-5, 8-10, 12-16 |
| | US, vol. 87, no. 7, July 1999 (1999-07), pages 1267-1276, XP000861525 ISSN: 0018-9219 | |
| A . | abstract page 1267, right-hand column, line 26 - page 1268, left-hand column, line 14 page 1269, left-hand column, line 38 - right-hand column, line 53 page 1274, left-hand column, line 46 - page 1275, right-hand column, line 5 | 6,7,11 |
| Α | EP 1 018 733 A (MATSUSHITA ELECTRONICS CORP) 12 July 2000 (2000-07-12) paragraph '0154! - paragraph '0165! paragraph '0180! paragraph '0191! - paragraph '0193! paragraph '0216! - paragraph '0218! paragraph '0227! - paragraph '0235! figures 19-25 | 3-10, 12-16 |
| А | "Amendment 1 to SDMI Portable Device Specification, Part I, Version 1.0" INTERNET ARTICLE, 'Online! 23 September 1999 (1999-09-23), pages 1-2, XP002265996 BROOKLYN Retrieved from the Internet: <url:http: download="" port_device_spec_amend1.pdf="" www.sdmi.org=""> 'retrieved on 2003-10-15! cited in the application the whole document</url:http:> | |
| А | CRAVER S ET AL: "LESSONS LEARNED FROM SDMI" IEEE WORKSHOP ON MULTIMEDIA SIGNAL PROCESSING. PROCEEDINGS OF SIGNAL PROCESSING SOCIETY WORKSHOP ON MULTIMEDIA SIGNAL PROCESSING, XX, XX, 3 October 2001 (2001-10-03), pages 213-218, XP008009719 | |
| | , | |

International Application No
PCT/JP 02/11223

| | | 101/01 | 02/11223 |
|-------------|--|--------|-----------------------|
| C.(Continua | ition) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | | Relevant to claim No. |
| A | "SDMI SECURE DIGITAL MUSIC INITIATIVE" SDMI PORTABLE DEVICE SPECIFICATION VERSION 1.0, XX, XX, no. PART 1, 8 July 1999 (1999-07-08), pages 1-35, XP000997330 | | |
| | | | |
| | | | |
| | | | |

International Application No PCT/JP 02/11223

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|---|---------|---------------------|----|----------------------------|------------------|
| EP 0855837 | Α | 29-07-1998 | JP | 10210436 A | 07-08-1998 |
| | | | CA | 2227380 A1 | 23-07-1998 |
| | | | EP | 0855837 A2 | 29-07-1998 |
| | | | TW | 388181 B | 21-04-2000 |
| | | | US | 6449425 B1 | 10-09-2002 |
| | | | US | 2001010756 A1 | 02-08-2001 |
| | | | US | 2001046101 A1 | 29-11-2001 |
| EP 1126453 | Α | 22-08-2001 | JP | 2001229612 A | 24-08-2001 |
| | | | CN | 1308331 A | 15-08-2001 |
| | | | EΡ | 1126453 A2 | 22-08-2001 |
| | | | US | 2001017828 A1 | 30-08-2001 |
| EP 0969462 | Α | 05-01-2000 | JP | 2000023088 A | 21-01-2000 |
| | | | EP | 0969462 A1 | 05-01-2000 |
| | | | US | 6633723 B1 | 14-10-2003 |
| US 5729516 | Α | 17-03-1998 | JP | 9245438 A | 19-09-1997 |
| EP 1018733 | <u></u> | 12-07-2000 | AU | 763294 B2 | 17-07-2003 |
| | | | ΑU | 4797699 A | 14-02-2000 |
| | | | DE | 69911161 D1 | 16-10-2003 |
| | | | EP | 1018733 A1 | 12-07-2000 |
| | | | CN | 1274461 T | 22-11-2000 |
| | | | EP | 1363282 A2 | 19-11-2003 |
| | | | MO | 0005716 A1 | 03-02-2000 |
| | | | JP | 2000187935 A | 04-07-2000 |