

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
2 September 2004 (02.09.2004)

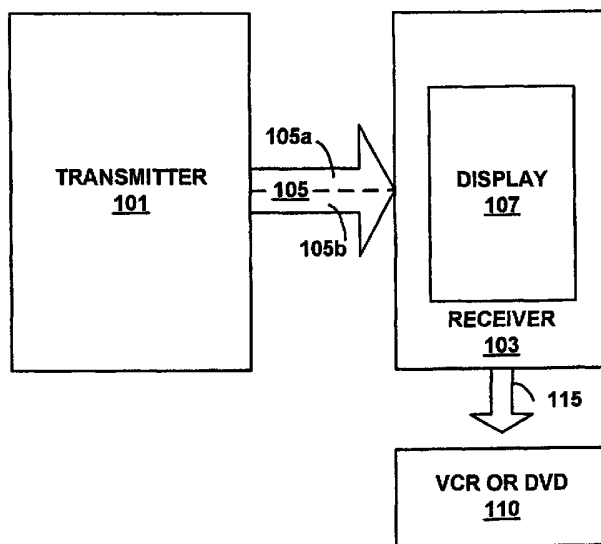
PCT

(10) International Publication Number  
WO 2004/075533 A3

- (51) International Patent Classification<sup>7</sup>: H04N 5/91
- (21) International Application Number: PCT/US2004/004487
- (22) International Filing Date: 17 February 2004 (17.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 10/370,886 19 February 2003 (19.02.2003) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application: US 10/370,886 (CON) Filed on 19 February 2003 (19.02.2003)
- (71) Applicants: SONY ELECTRONICS INC. [US/US]; 1 Sony Drive, Park Ridge, NJ 07656 (US). SONY CORPORATION [JP/JP]; 7-35 Kitashinagawa 6-chome, Shinagawa-ku, Tokyo (JP).
- (72) Inventor: DAWSON, Thomas, P.; 1870 Buckskin Glen, Escondido, CA 92027 (US).
- (74) Agents: GALLENSON, Mavis, S. et al.; LADAS & PARRY, 5670 Wilshire Boulevard, Suite 2100, Los Angeles, CA 90036-5679 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR COPY PROTECTION



(57) Abstract: A method of preventing copying useable video content. The method identifies video signal content of video signal that is suitable to be extracted, extracts video content from video signal to transmit to receiver (103), and replaces extracted video content with marred video content in video signal. The method further places extracted video content in user data channel of program stream (105) for transmission to receiver (103). In addition, the method transmits portions of video signal that contains marred video content in first channel (105a) of program stream (105), and transmits extracted video content in a second channel (105b) of program stream (105) to receiver (103). Signals transmitted in program stream (105) are synchronized for presentation in the display (107) of the receiver (103). Only the program stream (105) components that contain marred video content may be recorded by a VCR or DVD (110) recorder and marred video is unsuitable for piracy or rebroadcast.

WO 2004/075533 A3



**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

**(88) Date of publication of the international search report:**

14 April 2005

**(15) Information about Correction:**

**Previous Correction:**

see PCT Gazette No. 40/2004 of 30 September 2004, Section II

*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.*

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/04487

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(7) : H04N 5/91  
 US CL : 386/94  
 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)  
 U.S. : 386/1,94; 360/60; 380/201,202,203; 713/150,165,193; 705/51,57

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 practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,949,877 A (TRAW et al) 7 September 1999 (07.09.1999), Fig.1(a)-1(c)	1-29
A	US 6,507,907 B1 (TAKAHASHI et al), 14 January 2003 (14.01.2003), Fig.1A&1B	1-29
A	US 6,314,518 B1 (LINNARTZ), 06 November 2001 (06.11.2001), Fig.3	1-29

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"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)	"&"	document member of the same patent family
"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: 22 July 2004 (22.07.2004)  
 Date of mailing of the international search report: 18 FEB 2005

Name and mailing address of the ISA/US: Mail Stop PCT, Attn: ISA/US, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, Facsimile No. (703) 305-3230  
 Authorized officer: Christopher O. Onuaku, Telephone No. 703-308-7555