SG 9705761-6
RTMP
COPY

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04N 5/913 — A1

(11) International Publication Number: WO 96/41468

(43) International Publication Date: 19 December 1996 (19.12.96)

(21) International Application Number: PCT/US96/07376

(22) International Filing Date: 22 May 1996 (22.05.96)

(30) Priority Data:
08/473,047 7 June 1995 (07.06.95) US

(71) Applicant: MACROVISION CORPORATION [US/US]; 1341 Orleans Drive, Sunnyvale, CA 94089 (US).

(72) Inventors: RYAN, John; 22015 Creekside Court, Cupertino, CA 95014 (US). COPELAND, Gregory, C.; 1479 Lapaz Court, San Jose, CA 95118 (US).

(74) Agent: BRILL, Gerow, D.; Macrovision Corporation, 1341 Orleans Drive, Sunnyvale, CA 94089 (US).

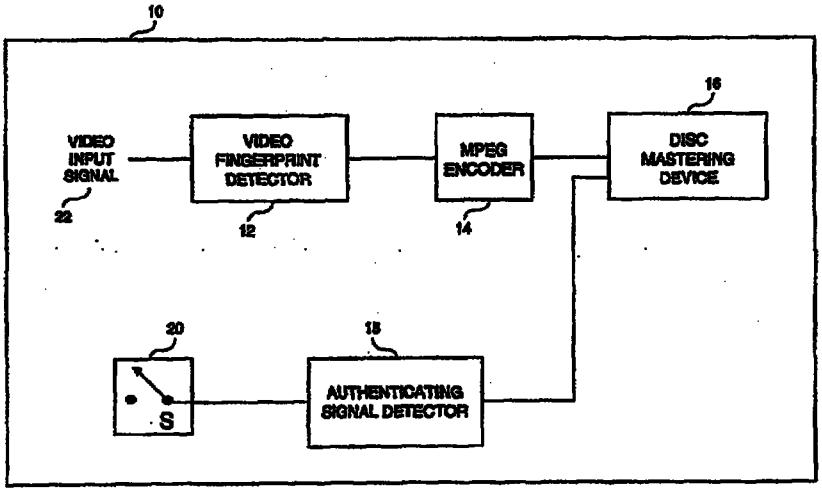
(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

REPLACED SHEETS SG

- ☐ Description : paged ... to paged ...
- ☑ Claim(s) : paged 14 to paged 16
- ☑ Drawing(s) : paged 1/3 to paged 3/3
- ☐ Abstract : paged ... to paged ...

(54) Title: METHOD AND APPARATUS FOR COPY PROTECTION FOR VARIOUS RECORDING MEDIA USING A VIDEO FINGER PRINT



(57) Abstract

A method and apparatus for copyright protection for various recording media such as Digital Video Discs (DVDs) uses a combination of a Video Finger Print Signal and an Authenticating Signature to permit the player to handle either copy-protected or non-copy-protected media, in a manner that is difficult to compromise. Both a Video Finger Print Signal and an Authenticating Signature are recorded on the media only when copy-protection is required. The nature of this Authenticating Signature is such that it will not be transferred to illicit copies made on CD recorders. When either an original protected or an original non-protected disk is played, the presence or absence of the Authenticating Signature causes the player to correctly play the program video. All original DVDs therefore play normally. When a copy of a non-protected CD is played, the absence of the Video Print Signal also causes the player to correcly playback the video signal data. However, when a copy of a protected CD is played, the absence of the Authenticating Signature causes the player to prohibit the disk from playing normally.