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(21) International Application Number: PCT/US98/02474 (22) International Filing Date: 4 February 1998 (04.02.98) (30) Priority Data: 08/794,797 4 February 1997 (04.02.97) US (71) Applicant (for all designated States except US): MACROVISION CORPORATION [US/US]; 1341 Orleans Drive, Sunnyvale, CA 94089 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): QUAN, Ronald [US/US]; 10910 Wunderlich Drive, Cupertino, CA 95014 (US). (74) Agent: BRILL, Gerow, D.; Macrovision Corporation, 1341 Orleans Drive, Sunnyvale, CA 94089 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), 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 <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: METHOD AND APPARATUS FOR MODIFYING THE ENVELOPE OF AN RF CARRIER SIGNAL TO REMOVE COPY PROTECTION SIGNALS THEREFROM (57) Abstract A method and apparatus are disclosed for disabling the effect of copy protection signals embedded in video signals, wherein the detection and modification of the copy protection signals is accomplished in the RF domain rather than in the baseband video domain as typically accomplished at the present time. To this end, various embodiments are disclosed for deriving a timing control signal from the modulated RF carrier signal, which timing control signal is indicative of the television lines which contain the copy protection signals. Several techniques in the RF domain responsive to the timing control signal are disclosed for replacing, attenuating, suppressing, pulse narrowing or otherwise modifying the modulated RF carrier signals during the interval of the copy protection signals to disable the effects thereof, to allow the making of acceptable recordings during demodulating subsequently by, for example, a record VCR. Also disclosed are means for adding copy protection signals to an RF carrier signal modulated with a video signal by modulating, for example, the protection signals onto the RF carrier signal in the RF domain.		