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| <p>(21) International Application Number: <b>PCT/US96/14731</b></p> <p>(22) International Filing Date: 13 September 1996 (13.09.96)</p> <p>(30) Priority Data:<br/>60/003,834 15 September 1995 (15.09.95) US<br/>9603332.9 14 February 1996 (14.02.96) GB</p> <p>(71) Applicant (for all designated States except US): THOMSON CONSUMER ELECTRONICS, INC. [US/US]; 10330 North Meridian Street, Indianapolis, IN 46290-1024 (US).</p> <p>(72) Inventors; and<br/>(75) Inventors/Applicants (for US only): BLATTER, Harold [US/US]; 2220 Brewster Road, Indianapolis, IN 46260 (US). KVINTUS, Michael, Francis, Jr. [US/US]; 4234 South Willow Brook, Terre Haute, IN 47802 (US). McLANE, Michael, Joseph [US/US]; 720 Sherwood Drive, Indianapolis, IN 46240 (US).</p> <p>(74) Agents: TRIPOLI, Joseph, S. et al.; GE &amp; RCA Licensing Management Operation, Inc., CN 5312, Princeton, NJ 08540 (US).</p> |           | <p>(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, 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, TJ, TM, TR, TT, UA, UG, US, 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).</p> <p><b>Published</b></p> <p><i>With international search report.</i></p> <p><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> |

(54) Title: ON-SCREEN DISPLAY INSERTION

## (57) Abstract

The absence of MPEG processing in a consumer digital recorder player may preclude on-screen message display of recorder status. Various method are disclosed which facilitate the on-screen display of recorder player status messages. A first embodiment returns a reproduced decoded, analog video signal (102) to the digital recorder player (200) for insertion of status messages. In a further embodiment recorder message data (271) is coupled to the digital signal decoder (100) for inclusion with the decoded analog video signal (102). In another embodiment a recorder message command (TAG/CMD) is coupled to the decoder (100) to access recorder specific graphical messages. In yet a further embodiment, recorder message data (271) is tagged and coupled to the decoder (100) to select recorder specific graphical messages if available or to display recorder message data. In yet another embodiment, digital or analog operating mode determines recorder message display position and timing.

