PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :
G11B 27/10, 27/30, H04N 7/52, 7/50

A1

(11) International Publication Number: **WO 99/57724**

(43) International Publication Date: 11 November 1999 (11.11.99)

(21) International Application Number: PCT/US98/09099

(22) International Filing Date: 6 May 1998 (06.05.98)

(71) Applicant: THOMSON CONSUMER ELECTRONICS, INC. [US/US]; 10330 North Meridian Street, Indianapolis, IN 46290–1024 (US).

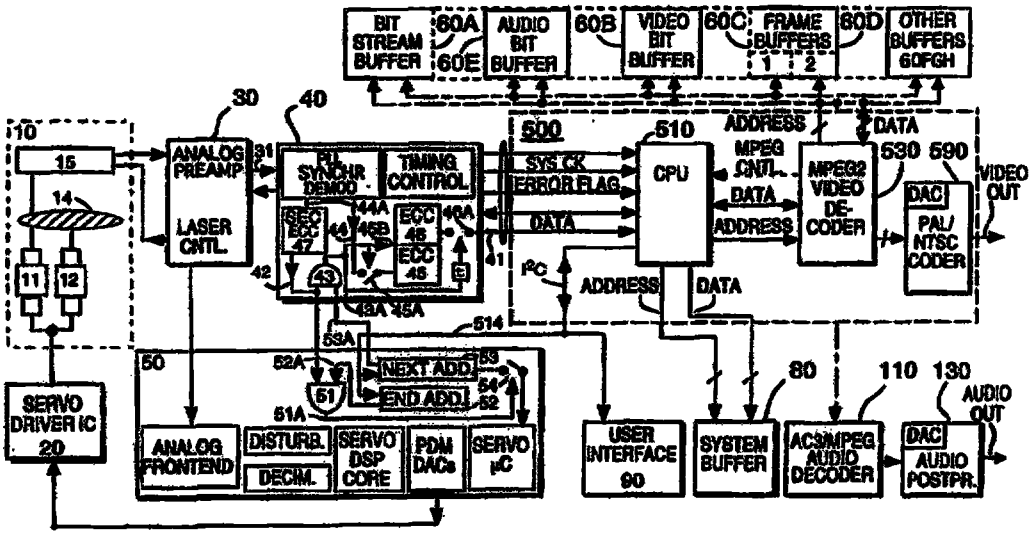
(72) Inventors: SCHULTZ, Mark, Alan; 4437 Somerset Way South, Carmel, IN 46033 (US). WILLIS, Donald, Henry; 5175 East 74th Place, Indianapolis, IN 46250 (US). XIE, Jianlei; 11852 Stoney Bay Circle, Carmel, IN 46033 (US). BARRON, Steven, Anthony; 13023 Lockburn Place, Fishers, IN 46038 (US). CANFIELD, Barth, Alan; 10421 Indian Lake Boulevard North, Indianapolis, IN 46236 (US). HAGUE, John, Alan; 5770 Street Broadway, Indianapolis, IN 46220 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; GE & RCA Licensing Management Operation, Inc., P.O. Box 5312, Princeton, NJ 08543 (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, GM, GW, HU, ID, 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, 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, CY, 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.
With amended claims.

(54) Title: BIT STREAM PROCESSING FOR REPLAY



(57) Abstract

An apparatus reproduces a bit stream signal from a disk and the bit stream is controlled to ensure that only requested bit stream data is coupled for MPEG decoding. A transducer is repositioned to obtain requested bit stream data prior to completion of preceding MPEG picture decoding. The bit stream data is read prior to buffer storage to select wanted data for storage and to reject unwanted data. Buffer storage is reallocated for trick play operation and is random accessed to facilitate trick play picture selection. MPEG picture decoding and storage are controlled to facilitate frame decoding within one field period. Decoded pictures are stored and read out substantially concurrently within a field period.