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Lindblad et al.

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(54) **VIDEO ON DEMAND APPLET METHOD AND APPARATUS FOR INCLUSION OF MOTION VIDEO IN MULTIMEDIA DOCUMENTS**

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(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(52) **U.S. Cl.** **345/327; 709/219; 348/7; 348/10**

(58) **Field of Search** 370/352, 389, 370/485-487; 345/327, 302, 328, 525, 526; 348/6, 7, 10, 12; 455/3.1, 4.1, 4.2, 5.1; 395/200.32, 200.33, 200.47-200.49, 200.61; 709/217, 218, 219, 216

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,461,415 * 10/1995 Wolf et al. 348/7
5,491,800 * 2/1996 Goldsmith et al. 395/800

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

0 680 213 11/1995 (EP) .

OTHER PUBLICATIONS

Wong et al., "Synchronization in Specification-based Multimedia Presentations," Software—Practice and Experience, vol. 26, No. 1, Jan. 1996, pp. 71-81.

(List continued on next page.)

Primary Examiner—Chris Grant

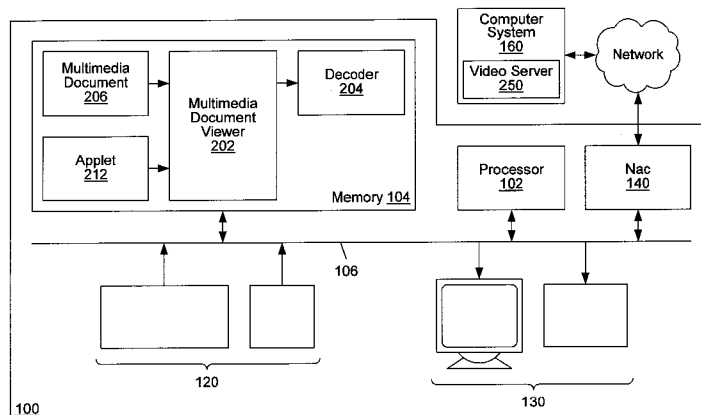
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(57) **ABSTRACT**

A computer process which requests streams of motion video titles and decodes and displays the motion video signals of the stream for display in a computer display device is constructed in the form of an applet of a multimedia document viewer such as a World Wide Web browser. Accordingly, a designer of multimedia documents such as HTML pages can easily incorporate motion video titles into such HTML pages by specifying a few parameters of a desired title or a desired portion of a title to be requested from a video server. The applet builds bit stream control signals from the specification of the title or the portion of the title. The bit stream control signals request transmission of the title or the portion of the title from a bit stream server such as a video server and are in a form appropriate for processing by the bit stream server. The applet transmits the bit stream control signals to the bit stream server to thereby request that the bit stream server initiate transmission of a bit stream representing the requested title or the requested portion of the title. The applet also builds decoder control signals from the specification of the title or the portion of the title. The decoder control signals direct a bit stream decoder to receive the requested bit stream from the bit stream server and to decode a motion video signal from the bit stream. The applet transmits the decoder control signals to the decoder to cause the decoder to receive the bit stream and to decode the motion video signal from the bit stream.

45 Claims, 3 Drawing Sheets

Microfiche Appendix Included
(1 Microfiche, 98 Pages)



U.S. PATENT DOCUMENTS

5,682,511 * 10/1997 Sposato et al. 348/13
5,742,768 * 4/1998 Gennaro et al. 395/761
5,805,153 * 9/1998 Nielsen 345/327

OTHER PUBLICATIONS

Chen et al., "Real Time Video and Audio in the World Wide

Web," 4th International World Wide Web Conference, Dec. 1995, pp. 1-14.

European Search Report, Application No. 97 30 2676, mailed Jul. 12, 1999.

* cited by examiner

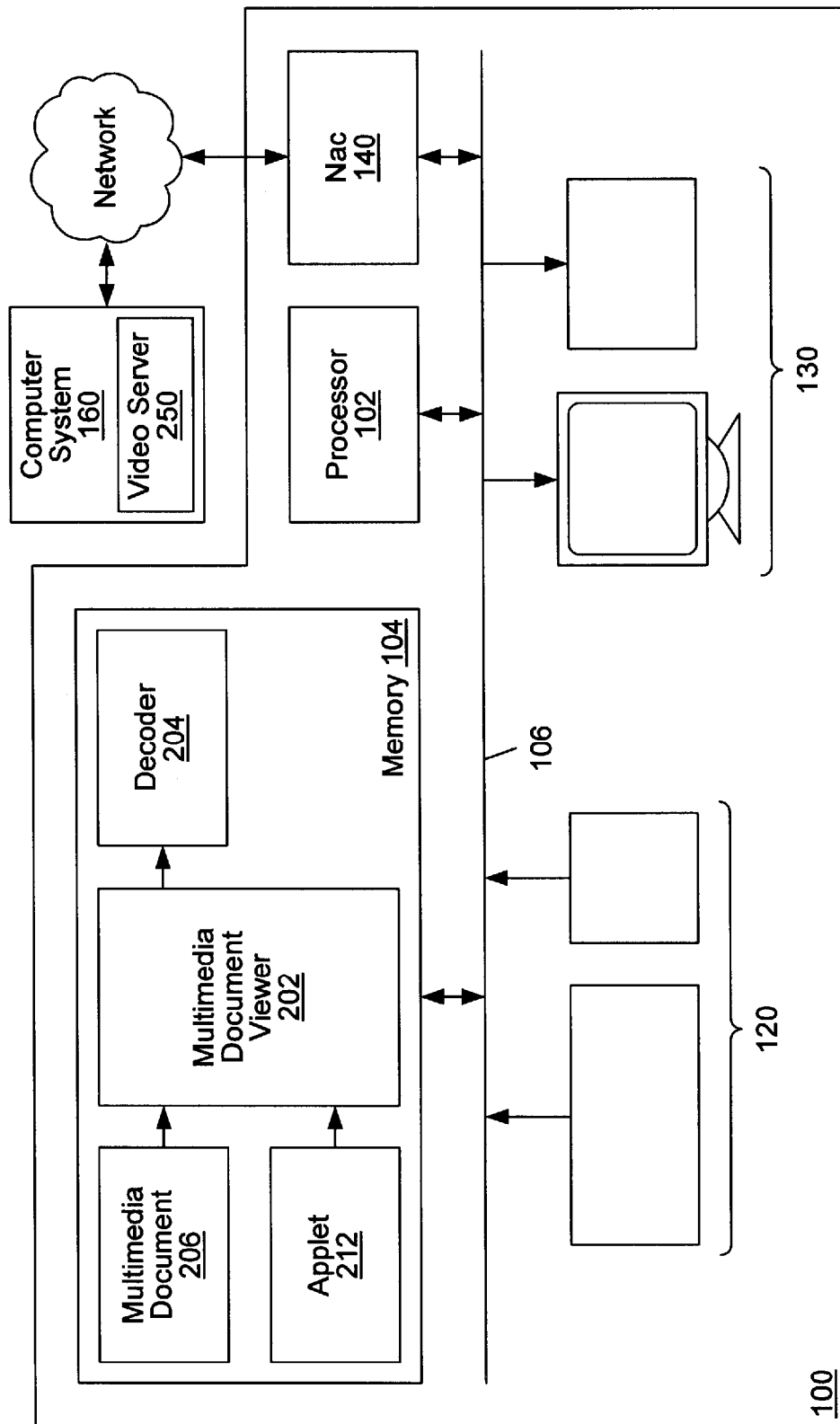


Fig. 1

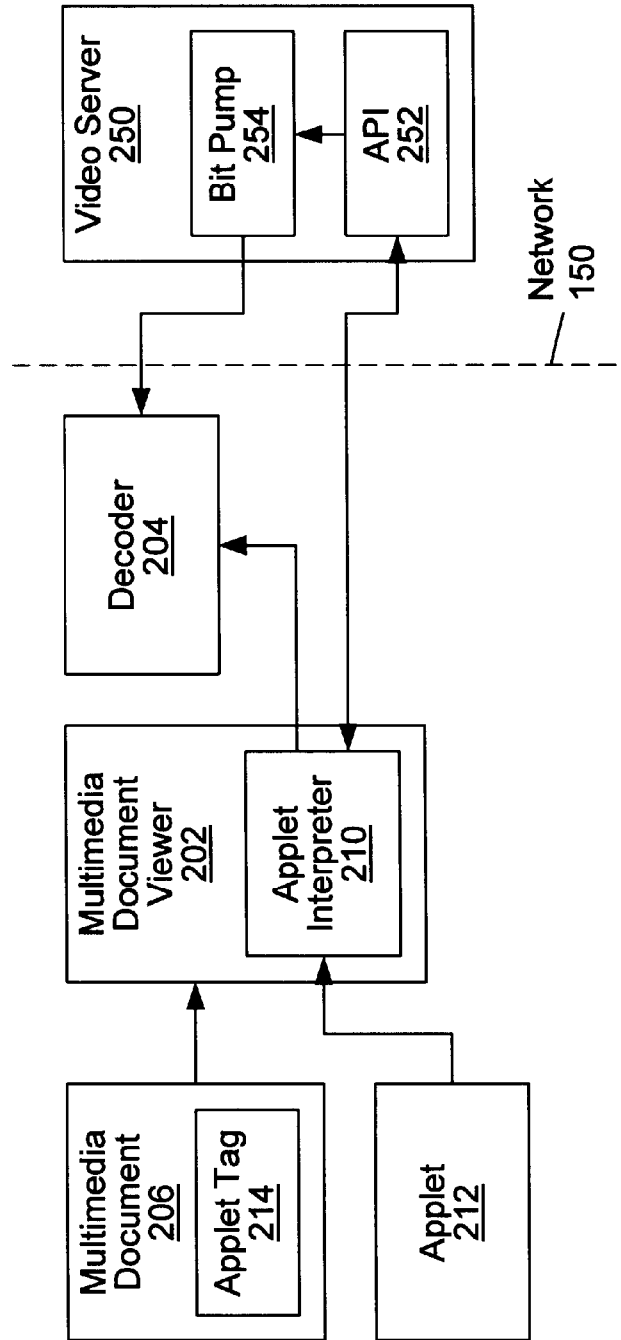


Fig. 2

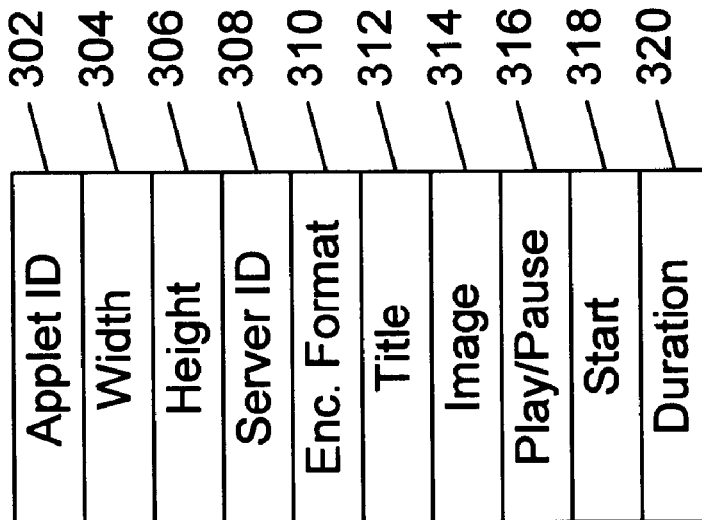
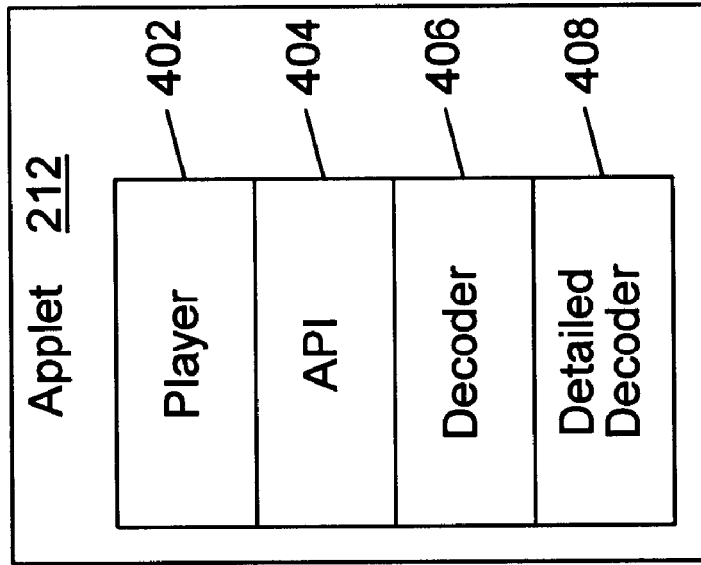


Fig. 4

Fig. 3

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