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# United States Patent [19] Craig

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[54] **MEDIA SERVER FOR SUPPLYING VIDEO AND MULTI-MEDIA DATA OVER THE PUBLIC SWITCHED TELEPHONE NETWORK**

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[73] Assignee: **Bell Atlantic Network Services, Inc.**, Arlington, Va.

[21] Appl. No.: **416,016**

[22] Filed: **Apr. 3, 1995**

### Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 910,395, Jul. 8, 1992, abandoned.

[51] Int. Cl.<sup>6</sup> ..... **H04M 11/00**

[52] U.S. Cl. .... **348/13; 348/7; 455/6.3**

[58] Field of Search ..... **348/13, 6, 7, 12; 379/105, 96, 93.25, 93.17, 102.02, 102.03; 455/3.1, 4.1, 4.2, 5.1, 6.1, 6.3**

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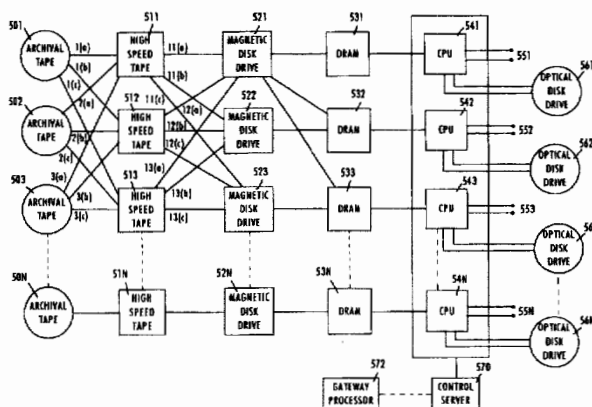
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### [57] ABSTRACT

A media server receives, stores and forwards multi-media data and full motion video feature presentations within a public switched telephone network. The media server receives wide band digital video and MPEG encoded video signals. The wide band digital video is encoded using either a real-time MPEG encoding for immediate transmission over network facilities to subscribers or, using a multi-pass MPEG encoder for storage by the Media Server for subsequent transmission. The Media Server includes four levels of storage including DRAM, optical and magnetic disk storage, high speed tape storage and archival storage. A Librarian Processor allocates storage space on a media appropriate to retrieval requirements for the video data. The Librarian is responsive to a Storage Manager Processor and a Session Manager Processor for providing video program data to an Output Controller. The Session Manager Processor monitors all input, output and throughput of the Media Server and monitors all user initiated sessions. Interface with users for multi-media applications and interactive control of video presentations is over a packet data network, via an interactive processor which receives and decodes control data. A Multi-Media Application Processor supports multi-media applications resident on the Media Server.

36 Claims, 6 Drawing Sheets



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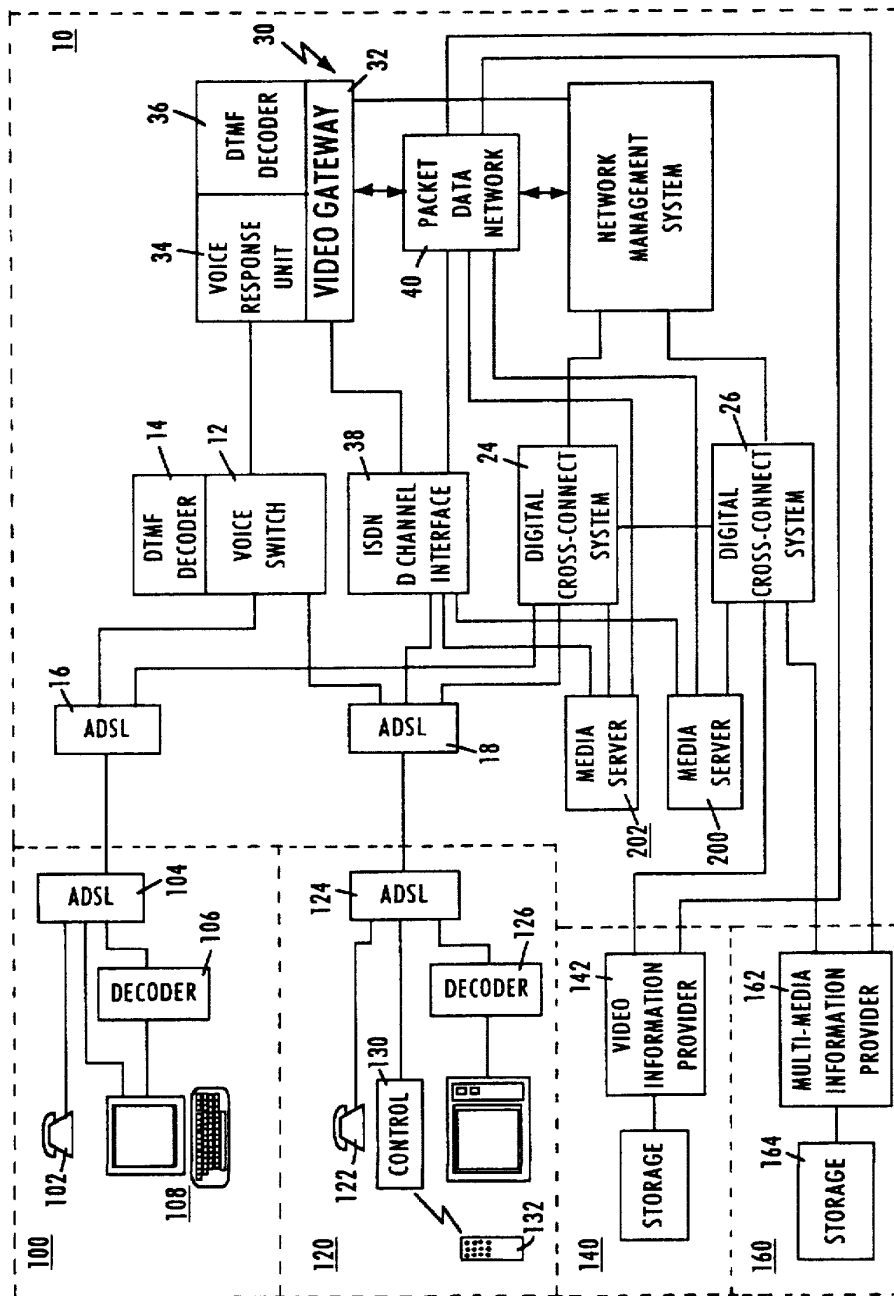


FIG. 1

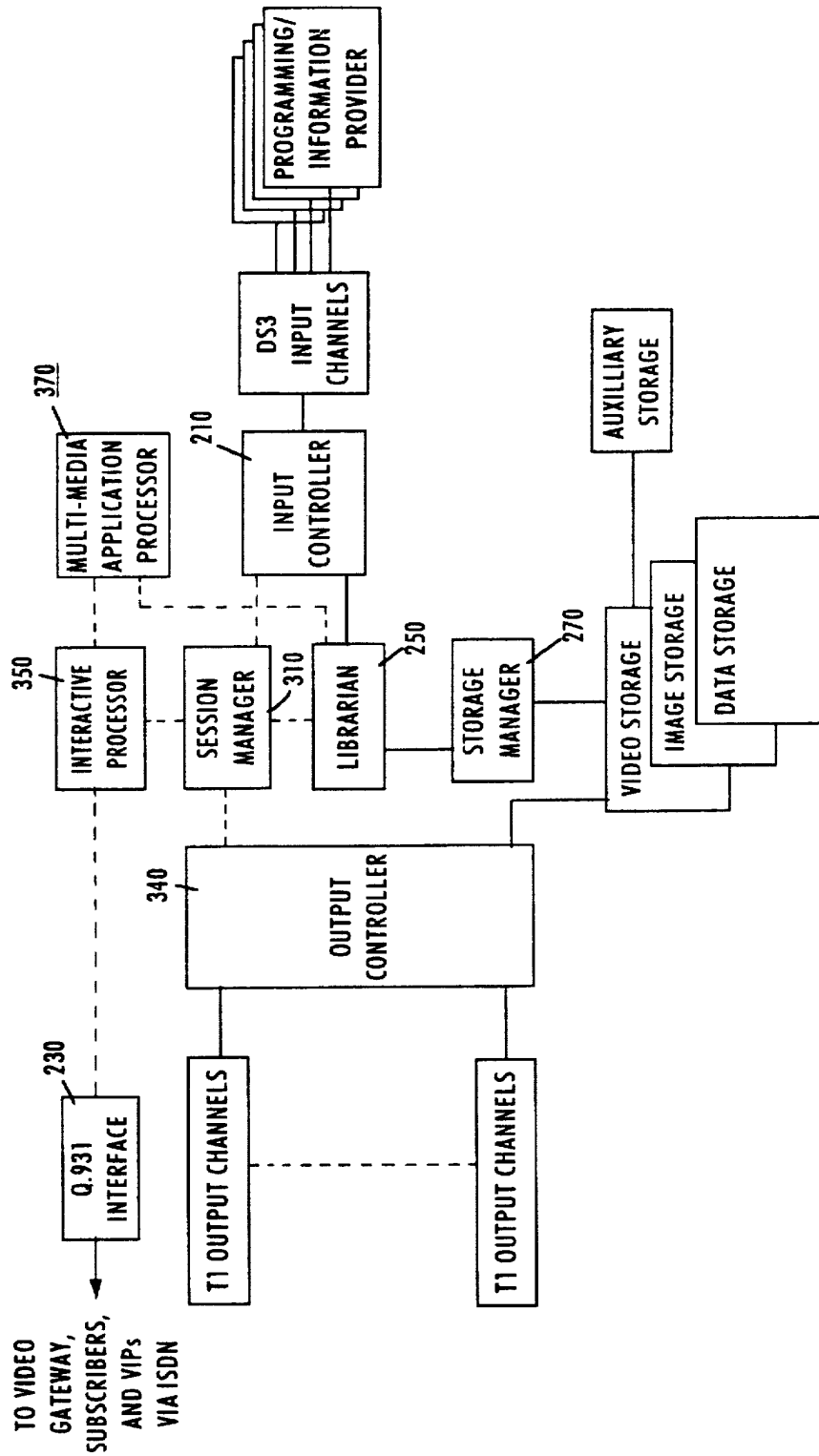
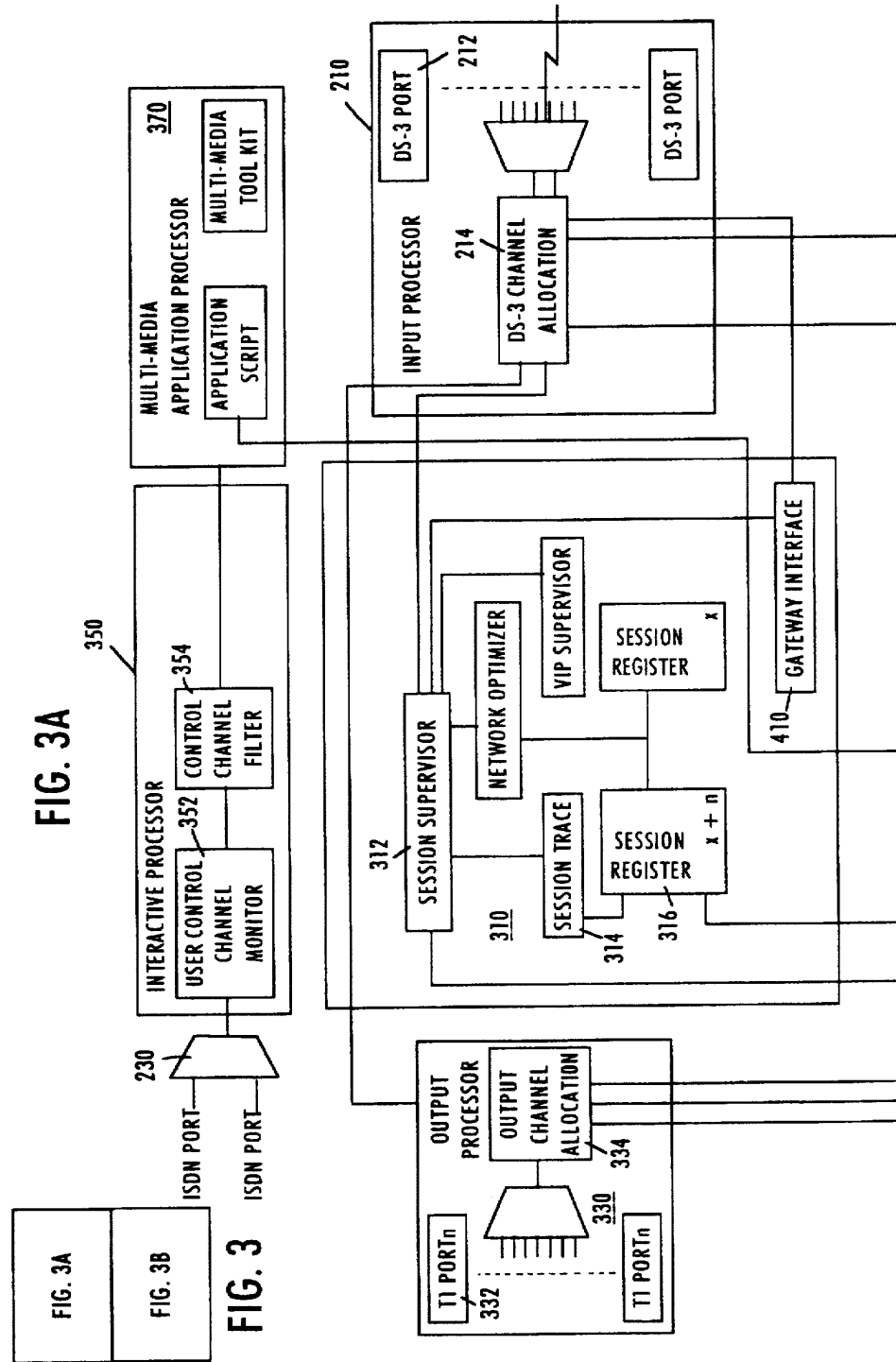


FIG. 2



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