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# United States Patent [19]

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Camhi et al.

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[54] **SIMULTANEOUS RECORDING AND PLAYBACK APPARATUS**

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[21] Appl. No.: **08/234,727**

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### Related U.S. Application Data

[63] Continuation of application No. 07/872,435, Apr. 23, 1992, abandoned.

[51] **Int. Cl.<sup>6</sup>** ..... **H04N 5/76**

[52] **U.S. Cl.** ..... **386/46; 386/125**

[58] **Field of Search** ..... 358/335, 342, 358/341, 343; 360/33.1, 14.1, 13, 36.1, 27; 369/32, 54; 348/734; 386/46, 125, 126, 92, 68; H04N 5/76

### [57] ABSTRACT

A keyboard equipped audiovisual recording and playback device is provided having an input and an output adapted for connection between a users signal source and display device, respectively, and a memory unit with a storage medium enabling random access to programming information stored therein. A keyboard responsive control circuit enables manipulation and transfer of programming information between the input, output and memory. Because of the relative high speed of the control circuitry and memory access, substantially simultaneous recording and playback of television type signals is achieved, thus enabling user controlled programming delay.

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**14 Claims, 5 Drawing Sheets**

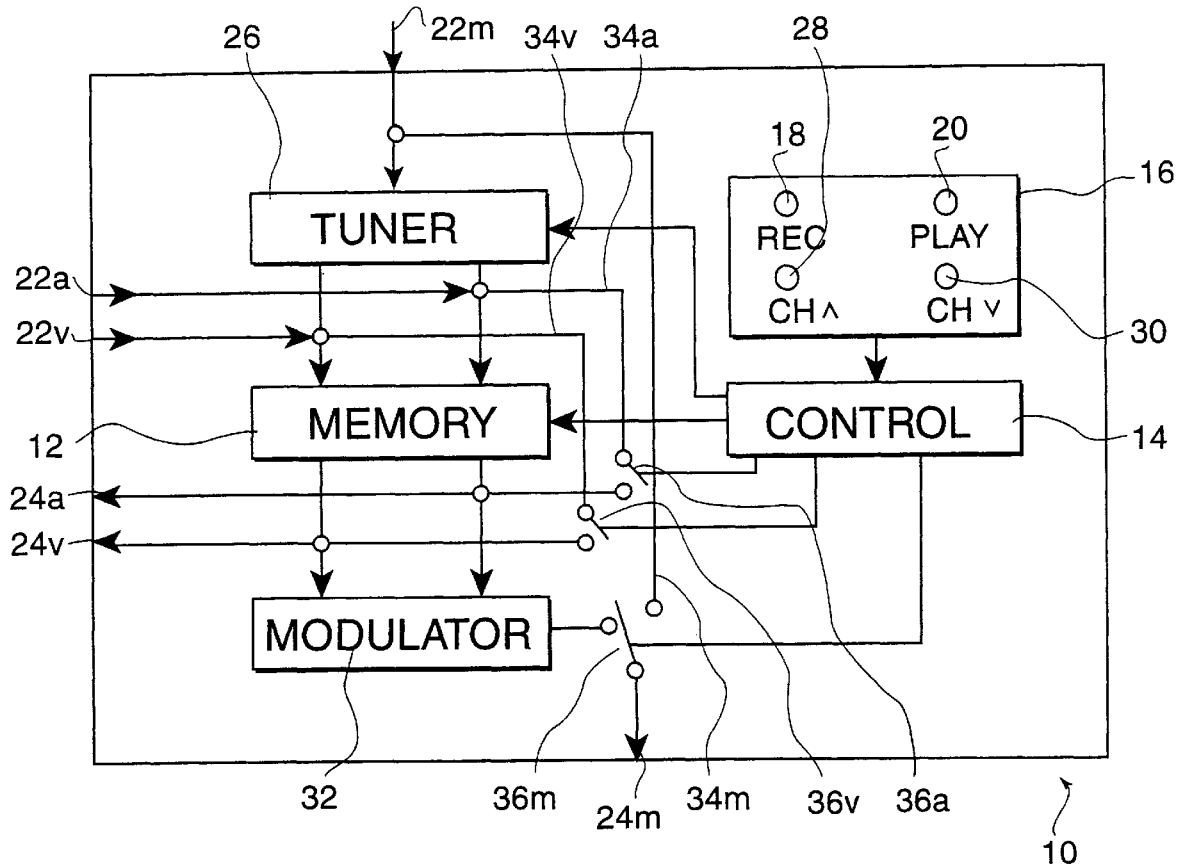


Fig. 1

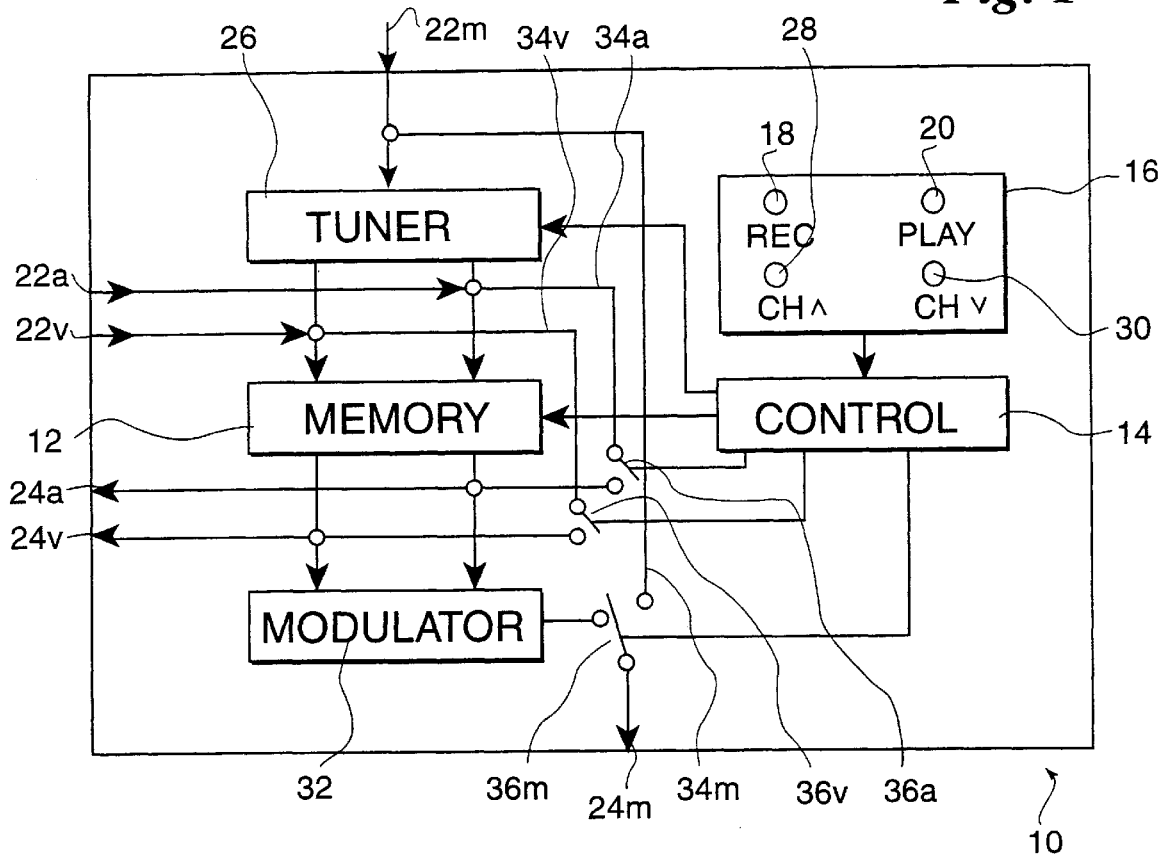
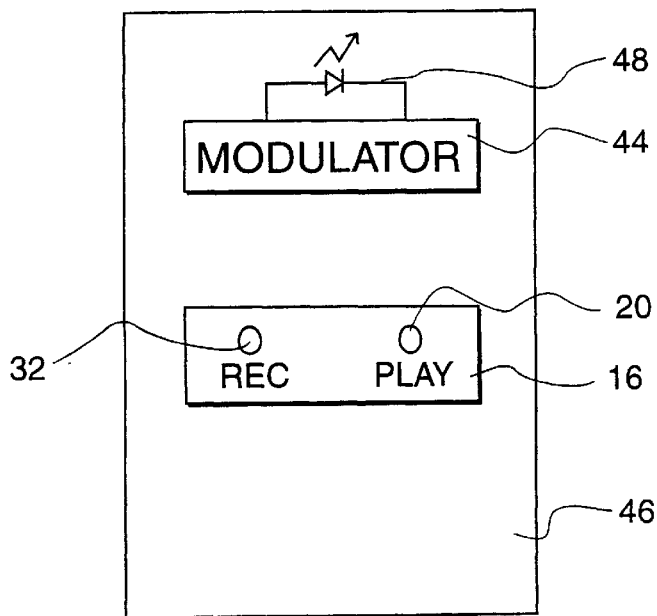


Fig. 4



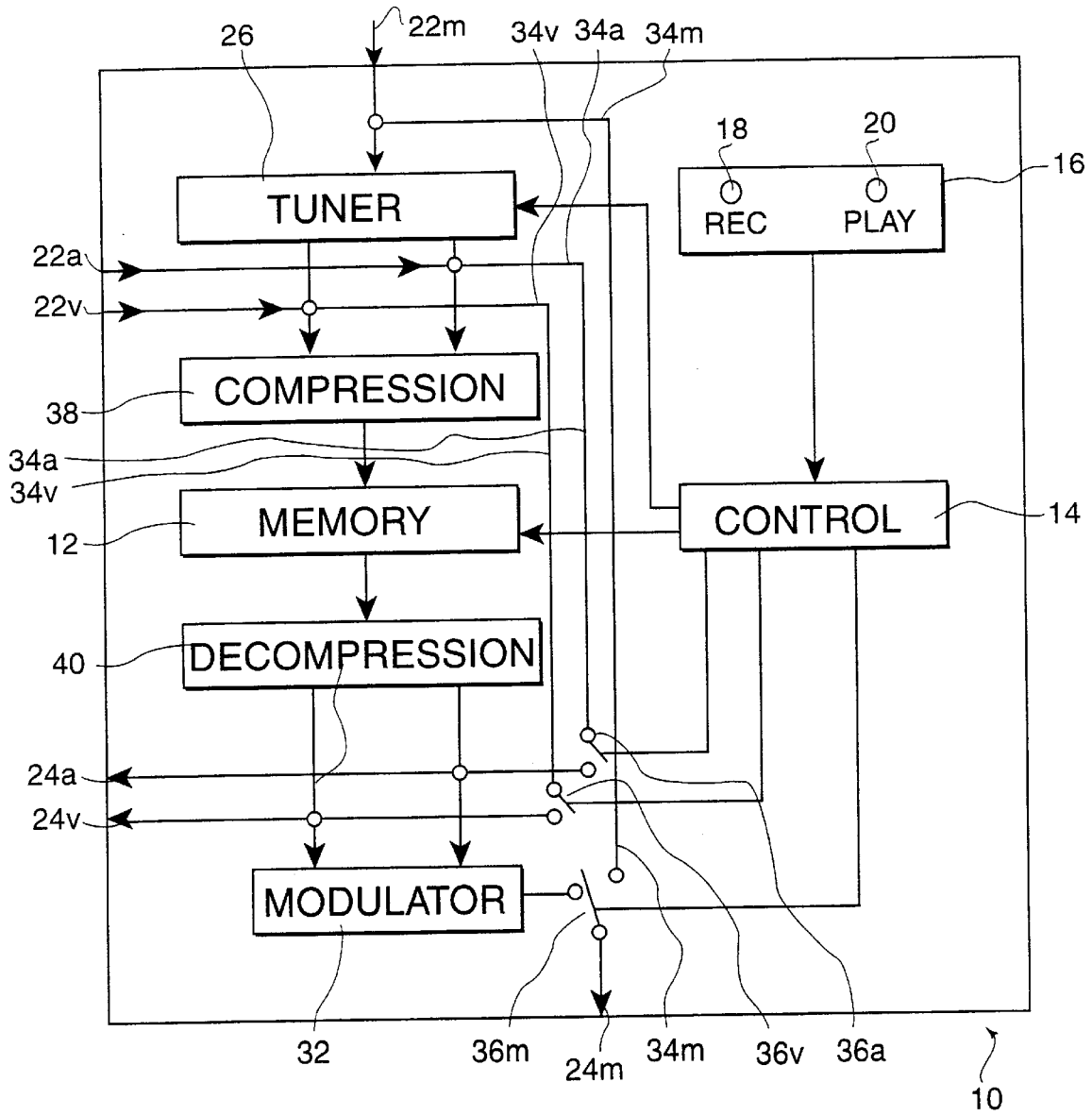


Fig. 2

Fig. 3

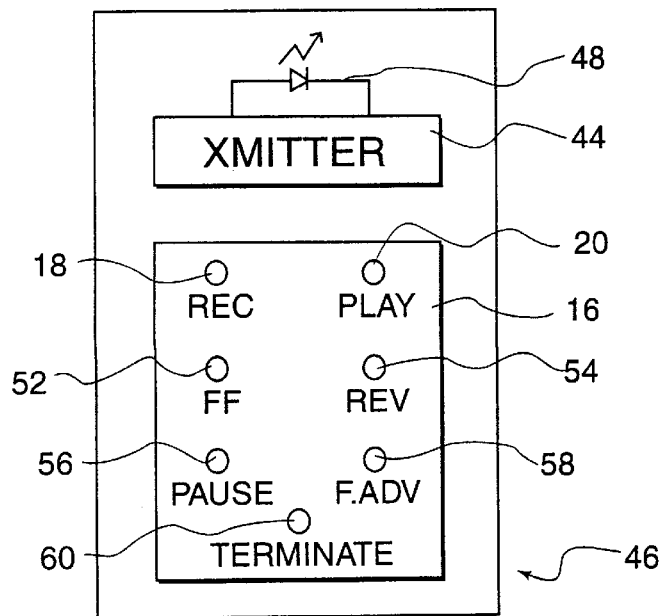
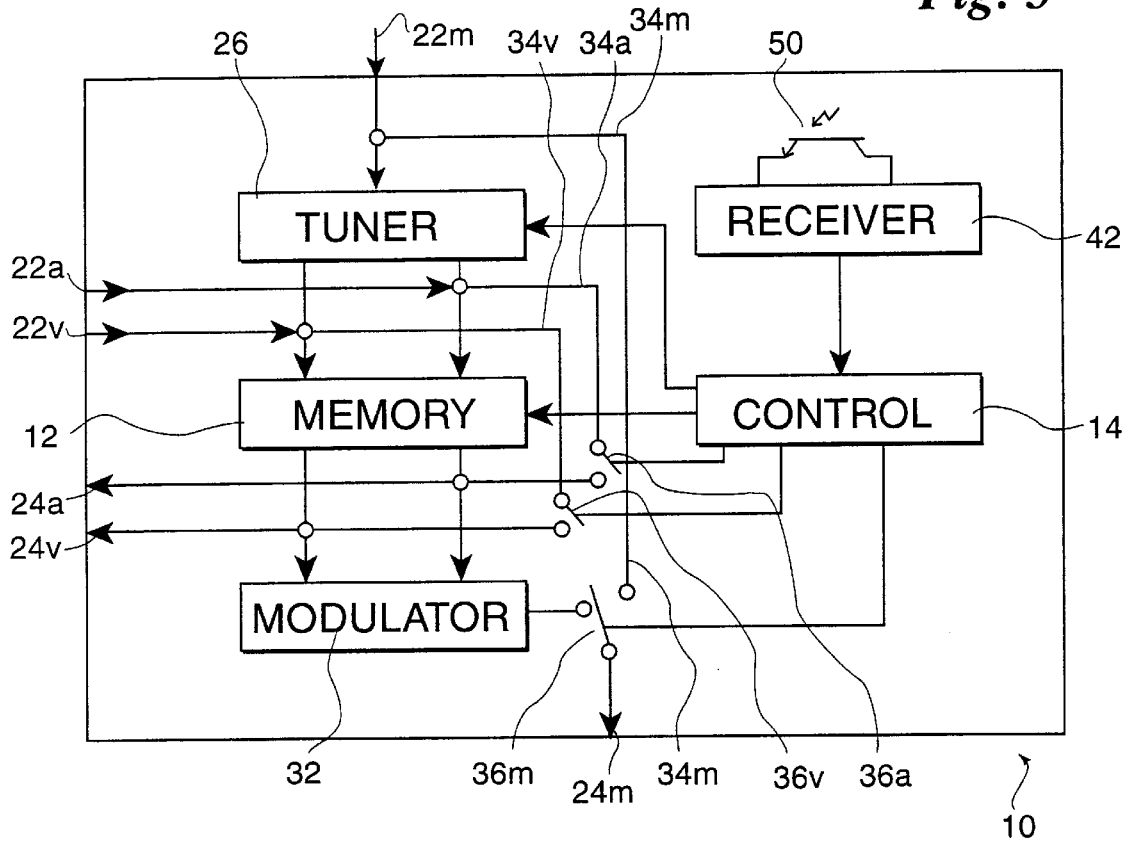


Fig. 5

Fig. 6

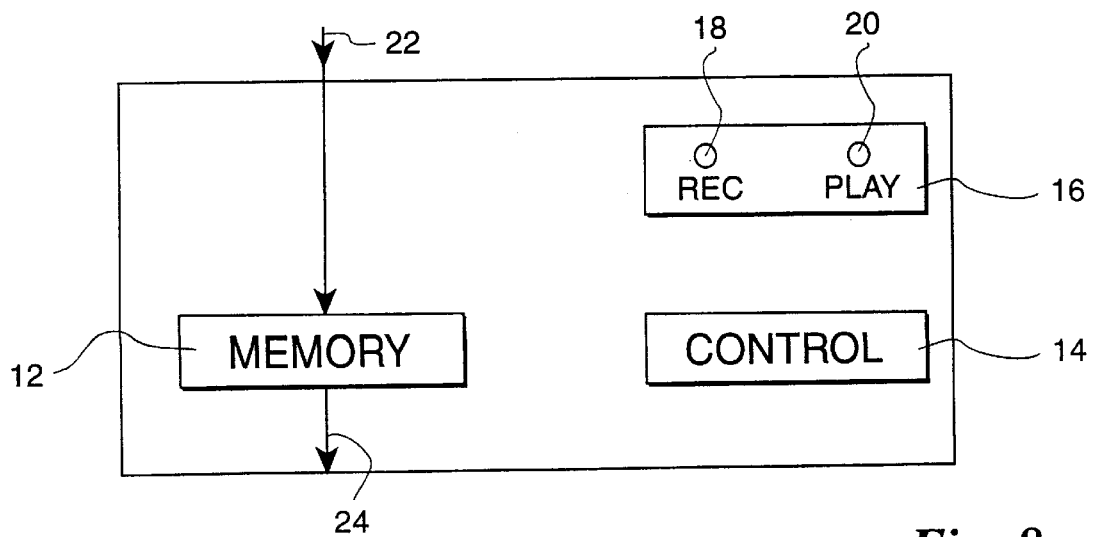
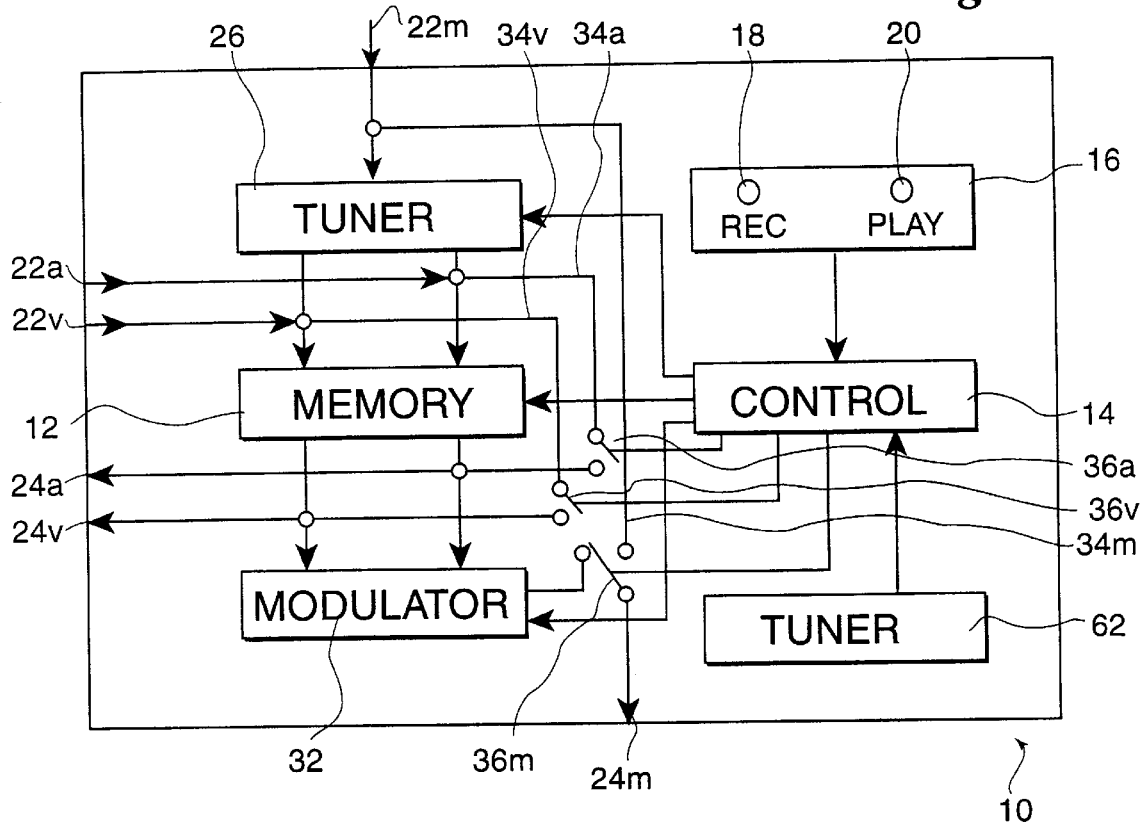


Fig. 8

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