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(54) **DIGITAL VIDEO RECORDING SYSTEM**

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See application file for complete search history.

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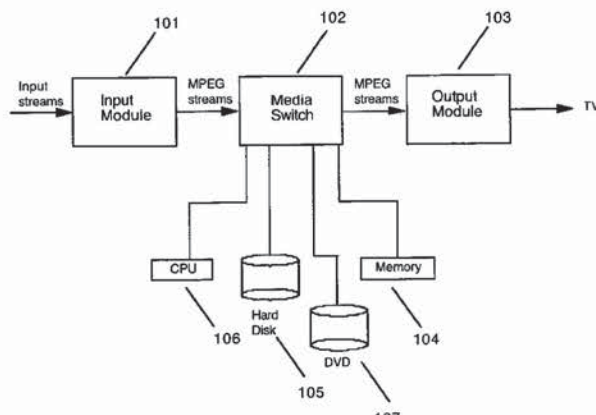
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(57) **ABSTRACT**

A digital video recorder (DVR) system with an integrated DVD recording device accepts TV input streams in a multitude of forms. Analog TV streams are converted to an MPEG formatted stream for internal transfer and manipulation, while pre-formatted MPEG streams are extracted from the digital TV signal and presented in a similar format. Indexes within the MPEG stream are determined and saved at pre-defined intervals and are stored on a hard disk along with the MPEG program material and used to create navigation packets when writing to a DVD inserted in an integrated DVD player/recorder. When a program is requested for display from the hard disk or the integrated DVD player/recorder, the program material are extracted from the appropriate source and reassembled into an MPEG stream which is sent to a decoder. The decoder converts the MPEG stream into TV output signals and delivers the TV output signals to a TV monitor. User control commands are accepted which affect the flow of the MPEG stream allowing the user to view stored programs with special functions: reverse, fast forward, play, pause, index, fast/slow reverse play, and fast/slow play. The user can select program material stored on the hard disk to be written to a DVD and can also select program material stored on a DVD to be transferred to the hard disk.

33 Claims, 17 Drawing Sheets



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