

## EXHIBIT A

US00678882B1

(12) **United States Patent**  
**Geer et al.**

(10) **Patent No.:** **US 6,788,882 B1**  
 (45) **Date of Patent:** **Sep. 7, 2004**

(54) **SYSTEMS AND METHODS FOR STORING A PLURALITY OF VIDEO STREAMS ON RE-WRITABLE RANDOM-ACCESS MEDIA AND TIME-AND CHANNEL- BASED RETRIEVAL THEREOF**

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

(21) Appl. No.: **09/062,022**

(22) Filed: **Apr. 17, 1998**

(51) **Int. Cl.**<sup>7</sup> ..... **H04N 5/225**; H04N 5/76; H04N 5/91; H04N 5/781; H04N 5/85; H04N 5/90

(52) **U.S. Cl.** ..... **386/116**; 386/125; 725/39

(58) **Field of Search** ..... 386/1, 83; 348/906, 348/512, 513; 725/92, 115, 145, 39, 48, 56, 55

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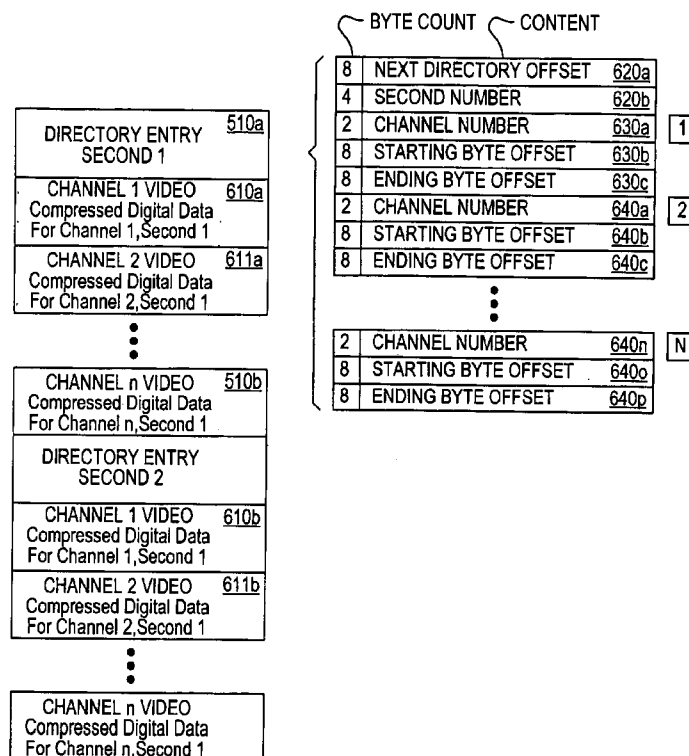
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(57) **ABSTRACT**

A digital video recorder (DVR) and a method of operating the same. In one embodiment, the DVR includes: (1) a mass data storage unit that concurrently and continuously receives and digitally stores a plurality of channels and (2) a channel viewer, coupled to the mass data storage unit, that retrieves a portion of one of the plurality of channels from the mass data storage unit based on a received command and presents the portion on a video display device.

**33 Claims, 12 Drawing Sheets**



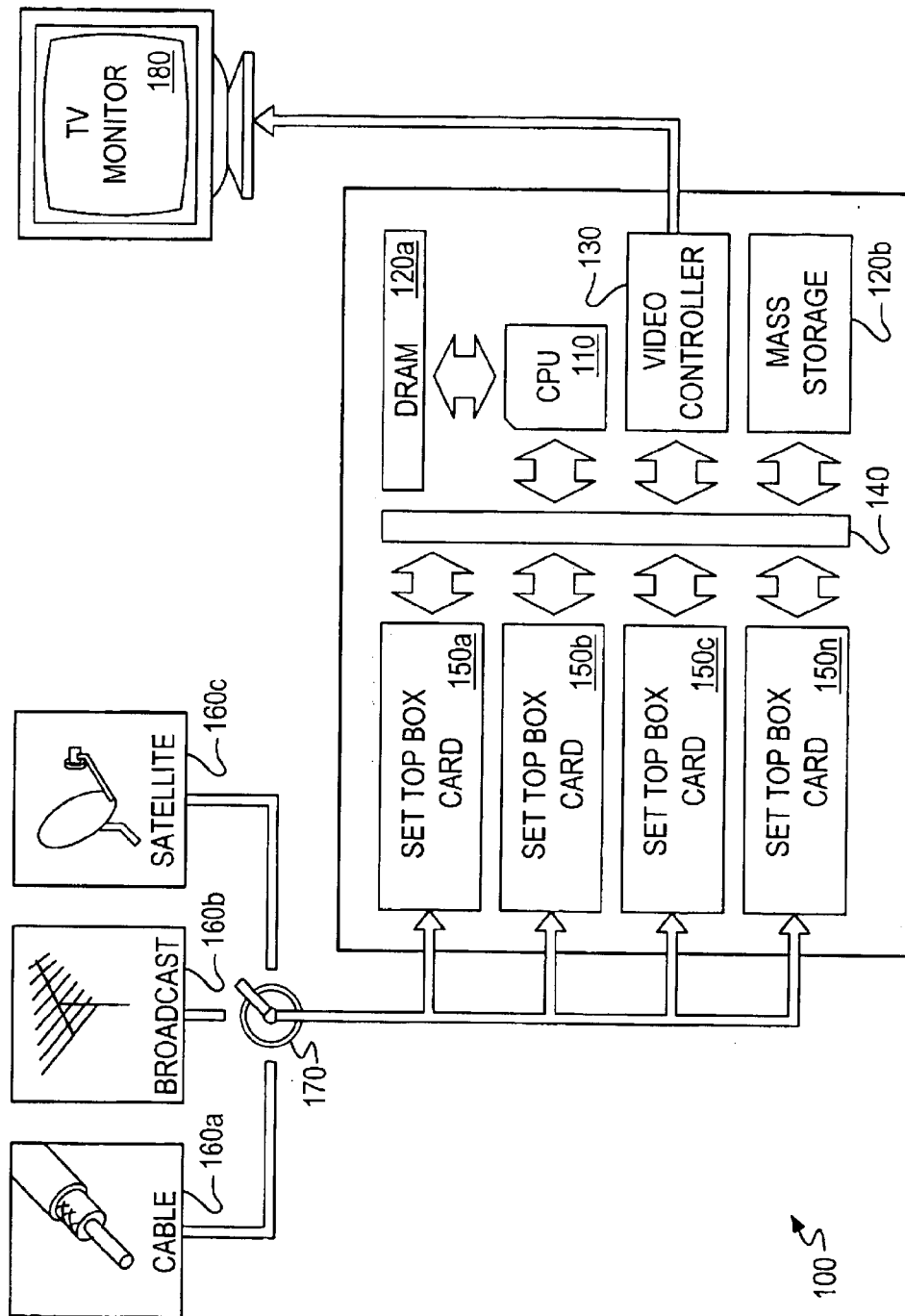


Figure 1

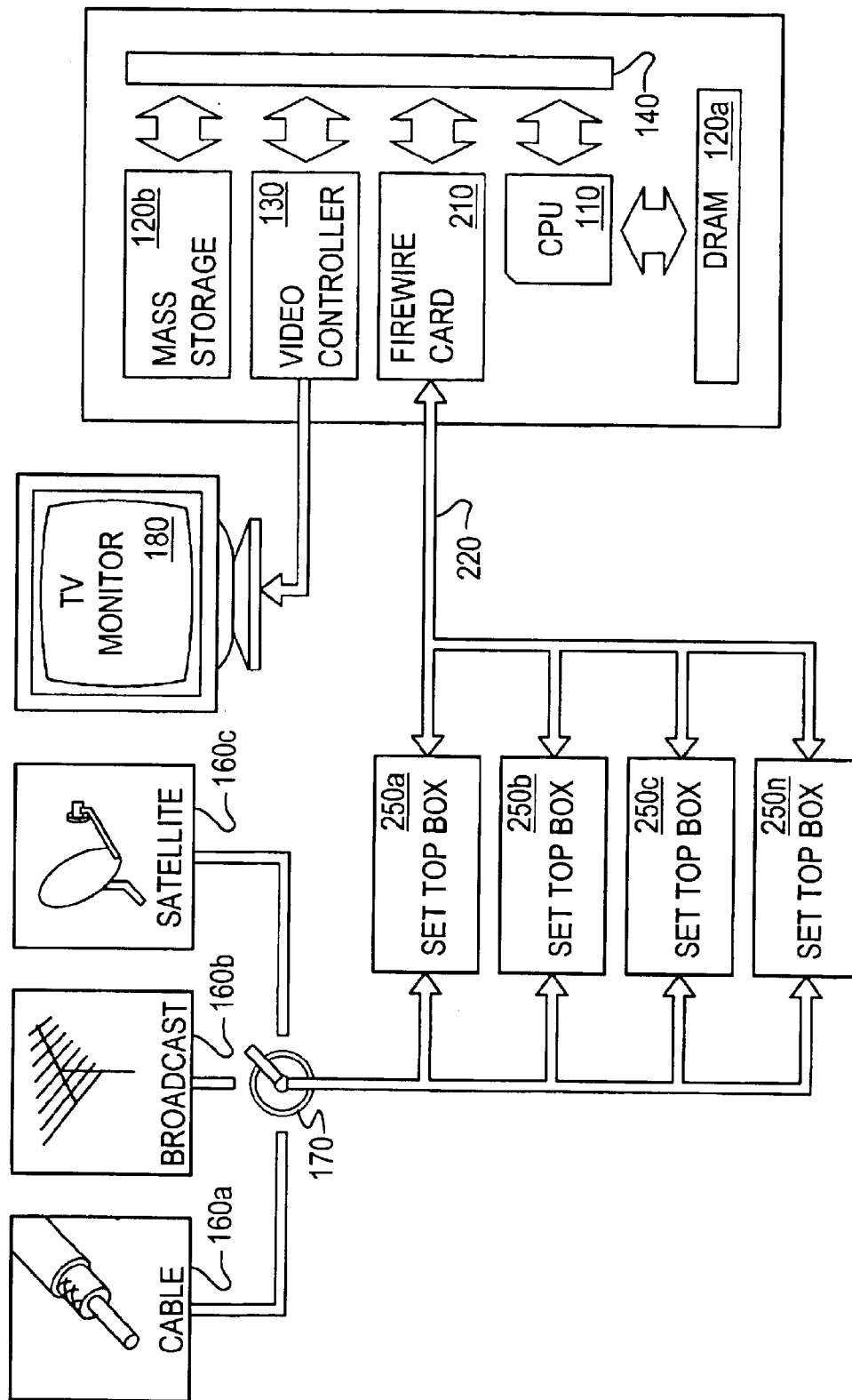


Figure 2

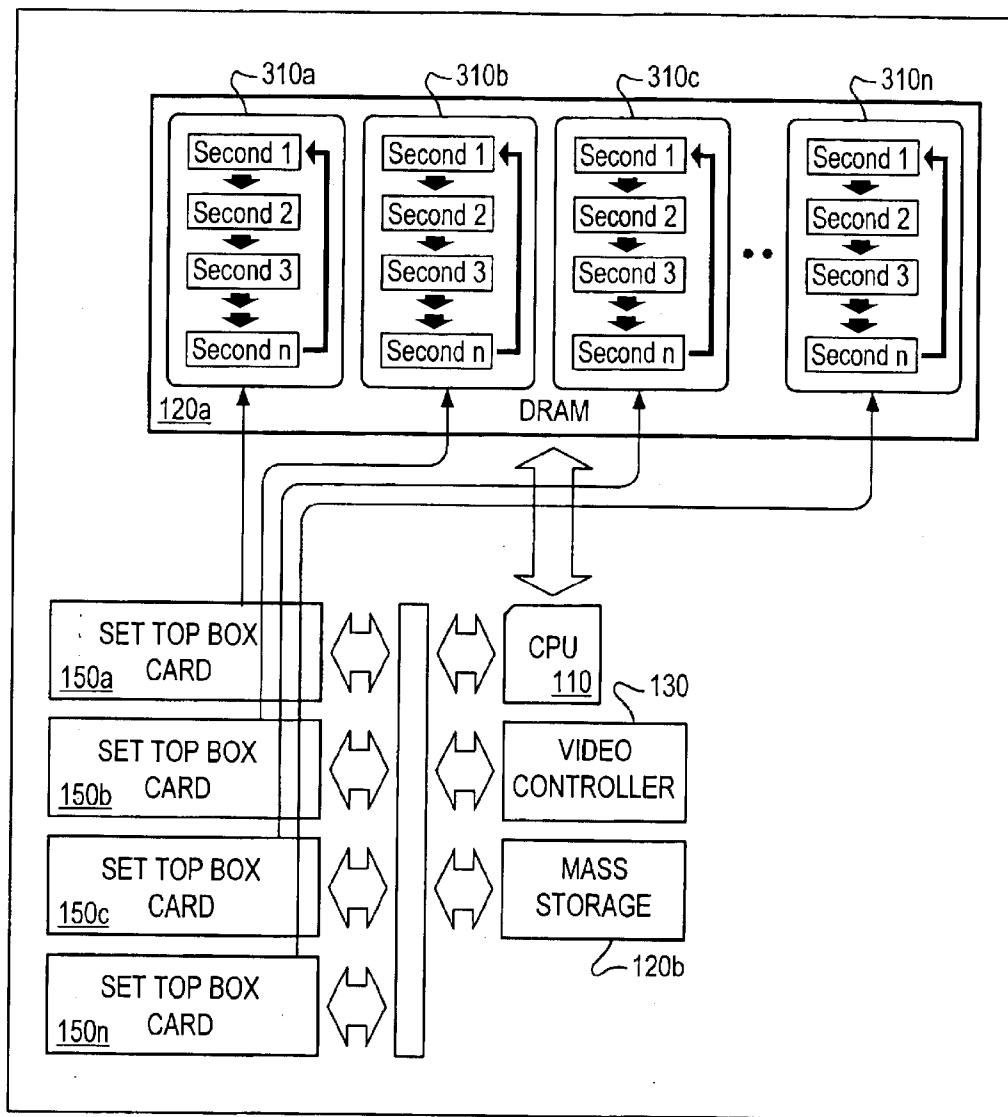


Figure 3

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