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United States Patent [19]

Stefik et al.

[11] **Patent Number:** **5,530,235**[45] **Date of Patent:** **Jun. 25, 1996**[54] **INTERACTIVE CONTENTS REVEALING STORAGE DEVICE**

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[75] Inventors: **Mark J. Stefik**, Woodside; **Daniel G. Bobrow**, Palo Alto; **Stuart K. Card**, Los Altos; **Michalene M. Casey**, Morgan Hill; **Richard J. Goldstein**, San Francisco, all of Calif.; **Michael G. Lamming**, Cambridge, England; **Jock D. Mackinlay**, San Jose, Calif.; **Roy Want**, Mountain View, Calif.; **George G. Robertson**, Foster City, Calif.; **Mark D. Weiser**; **Daniel M. Russell**, both of Palo Alto, Calif.

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Primary Examiner—Harold Pitts*Attorney, Agent, or Firm*—Richard B. Domingo

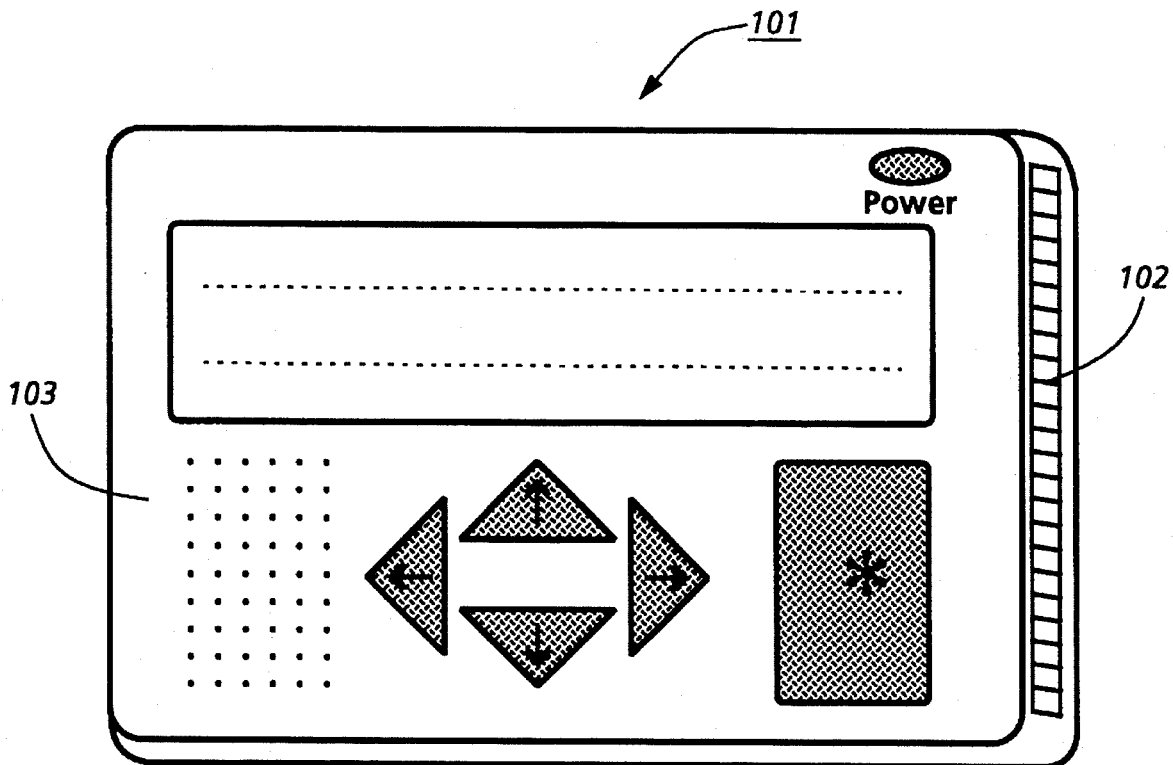
[57]

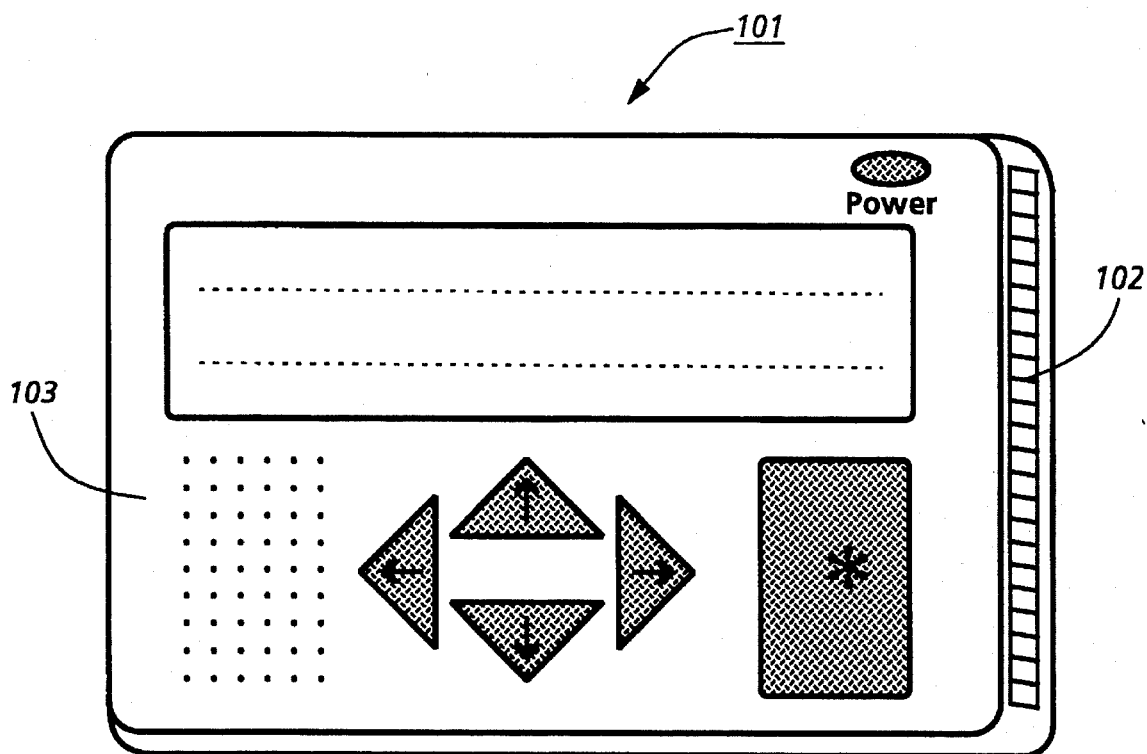
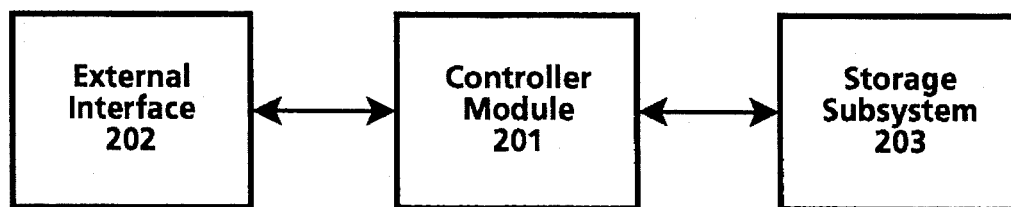
ABSTRACT

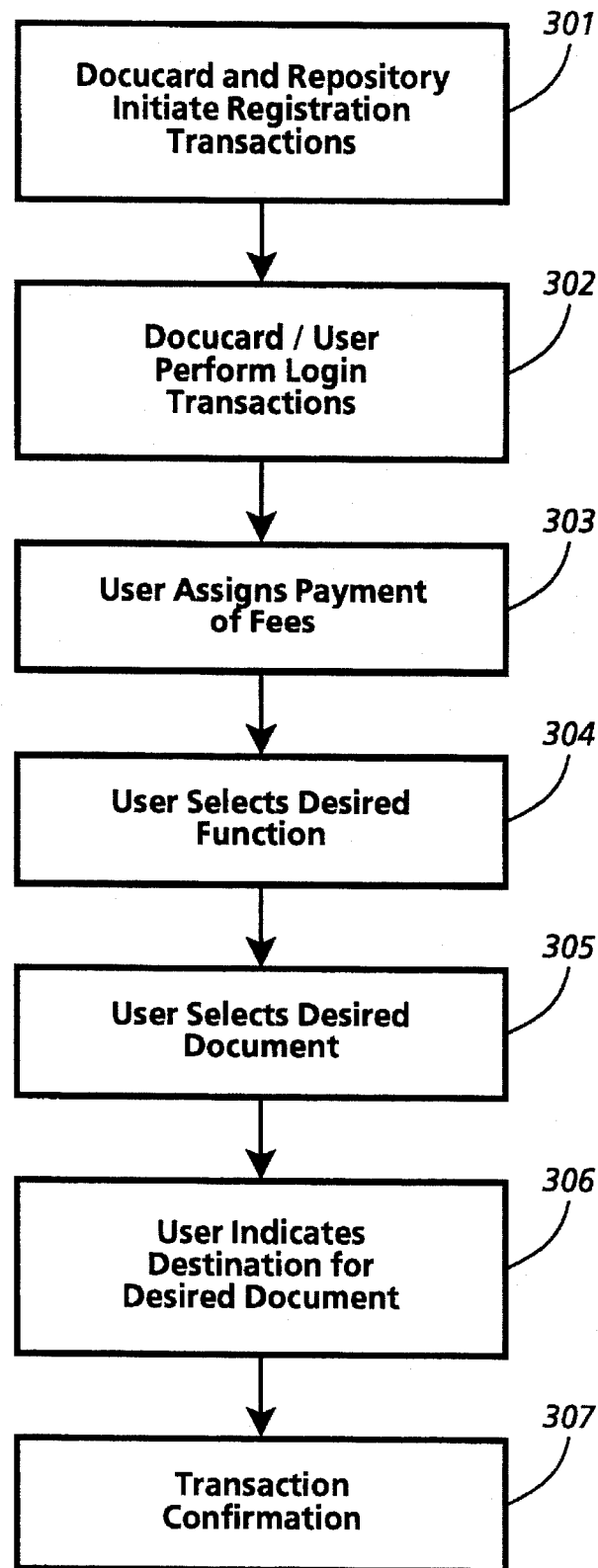
A Document Card (DocuCard) for storing documents and which is content revealing. The DocuCard is a transportable unit having a nonvolatile storage means for storing information in a digital form, a control processor for processing user initiated functions; an I/O port for interfacing to external devices for reading and writing digital information, and a user interface for allowing a user to directly interact with the DocuCard. The user interface on the DocuCard includes a display for displaying lists of functions and documents and information responsive to user invoked functions and a user input portion for allowing a user to traverse the lists of functions and documents, as well as information generated responsive to an invoked function. The control processor of the present invention include features for controlling access to documents stored therein.

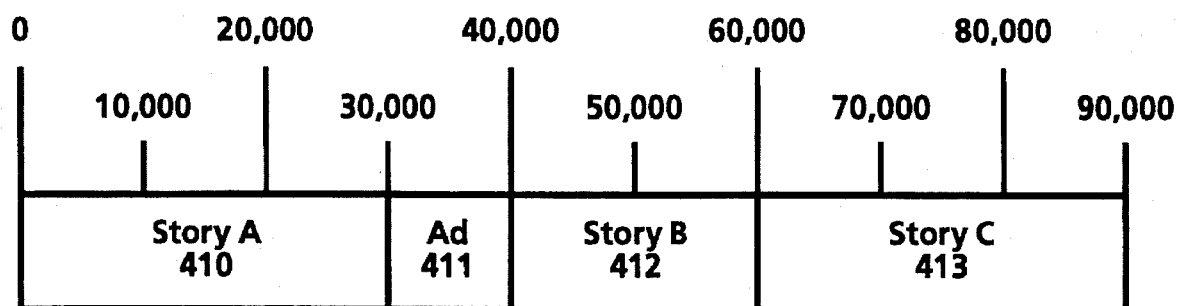
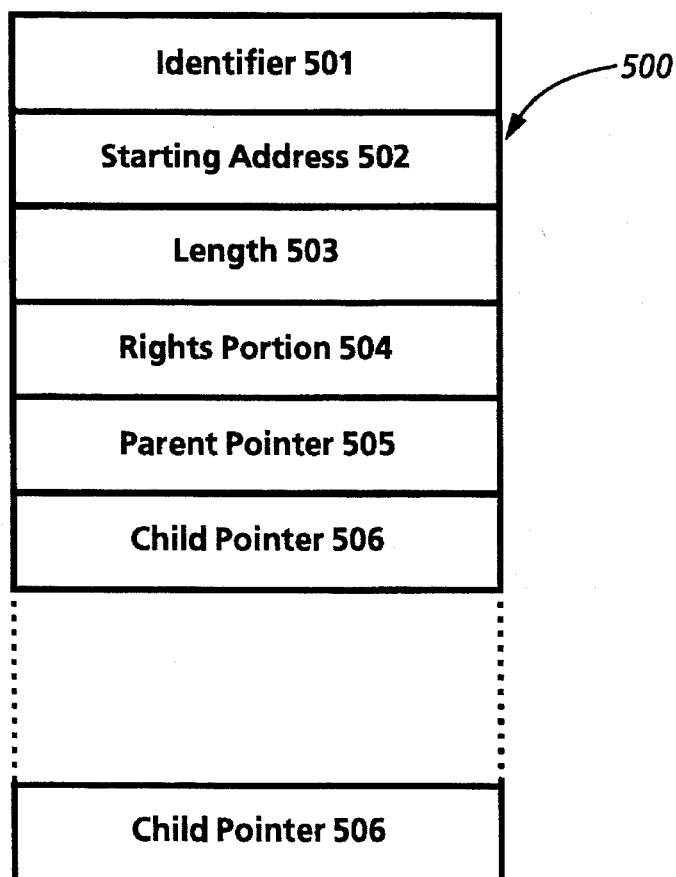
[73] Assignee: **Xerox Corporation**, Stamford, Conn.[21] Appl. No.: **389,670**[22] Filed: **Feb. 16, 1995**[51] **Int. Cl.**⁶ **G06K 19/06**[52] **U.S. Cl.** **235/492; 235/380; 235/487**[58] **Field of Search** **235/380, 487, 235/492**[56] **References Cited****U.S. PATENT DOCUMENTS**

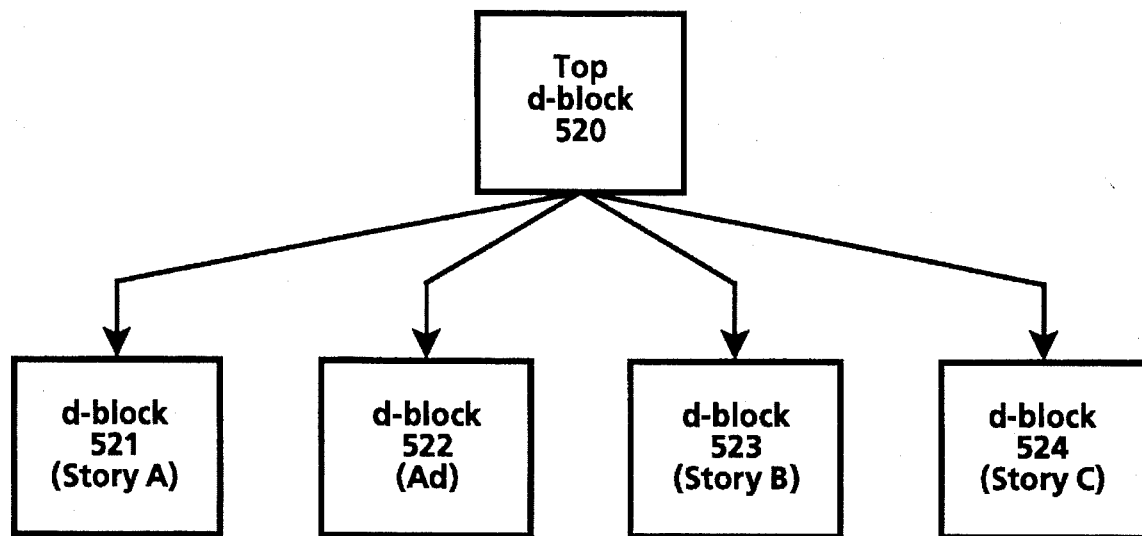
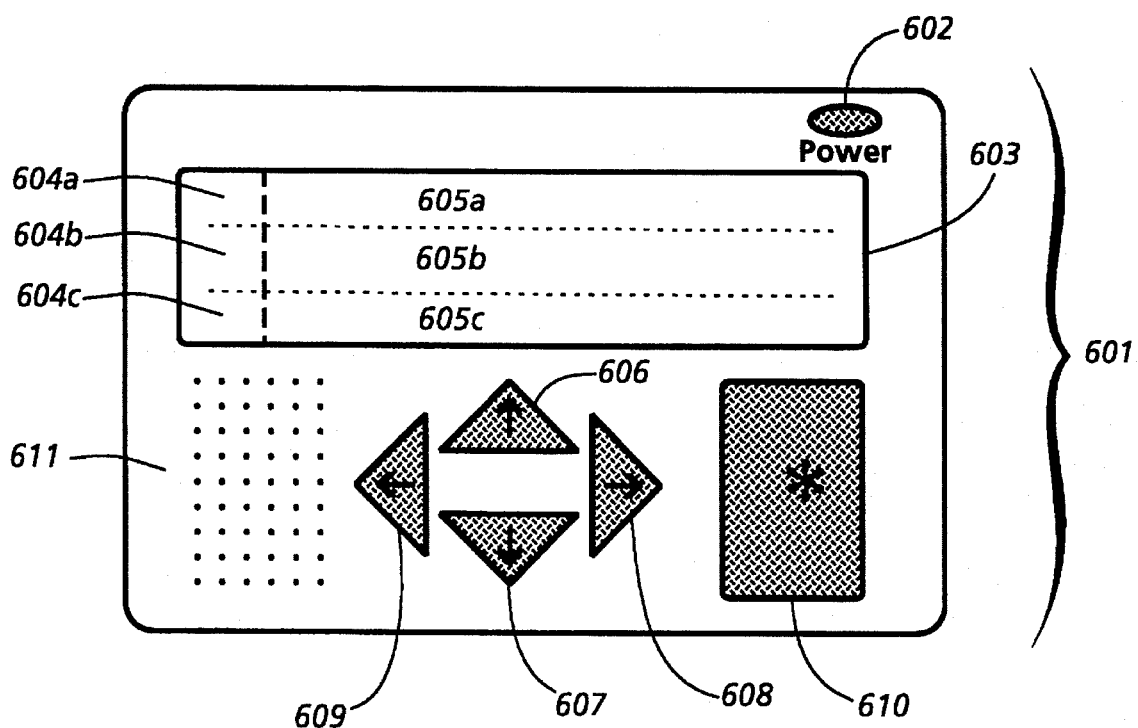
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23 Claims, 10 Drawing Sheets

**Fig. 1****Fig. 2**

**Fig. 3**

**Fig. 4****Fig. 5a**

*Fig. 5b**Fig. 6*

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