

- [54] **STORAGE CONTROLLER EMULATOR PROVIDING TRANSPARENT RESOURCE SHARING IN A COMPUTER SYSTEM**
- [75] Inventors: **William M. Maclean, Milton; Edward G. Agnew, Campbellville; Richard C. Madter, Puslinch, all of Canada**
- [73] Assignee: **516277 Ontario Limited, Ontario, Canada**
- [21] Appl. No.: **556,130**
- [22] Filed: **Nov. 29, 1983**
- [51] Int. Cl.⁴ **G06F 13/12**
- [52] U.S. Cl. **364/200**
- [58] Field of Search ... **364/200 MS File, 900 MS File**

4,511,963	4/1985	Kantner	364/200
4,516,199	5/1985	Frieder	364/900
4,641,263	2/1987	Perlman et al.	364/900
4,642,759	2/1987	Foster	364/200

FOREIGN PATENT DOCUMENTS

1106073	7/1981	Canada .
1124883	6/1982	Canada .
1124878	6/1982	Canada .
1145854	5/1983	Canada .

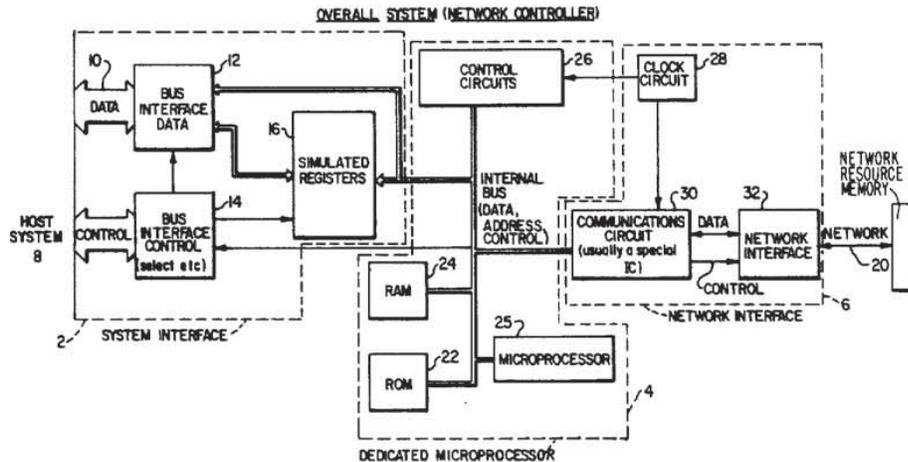
Primary Examiner—Archie E. Williams, Jr.
Assistant Examiner—Florin Munteanu
Attorney, Agent, or Firm—Kenyon & Kenyon

[57] **ABSTRACT**

A microprocessor controlled mass storage controller is used as an interface for mass storage devices which are shared by a plurality of stand-alone microcomputer systems. The microprocessor controlled mass storage controller has a system interface which maintains communications with a host microcomputer; a dedicated microprocessor which maintains the internal control of the controller and a network interface which maintains an access to the external network. Data transparency and integrity are achieved through the simulation by the controller of the mass storage device characteristics and responses.

6 Claims, 7 Drawing Sheets

- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- | | | | |
|-----------|---------|-----------------|---------|
| 3,975,712 | 8/1976 | Hepworth | 364/200 |
| 4,127,896 | 11/1978 | Raslavsky | 364/200 |
| 4,204,251 | 5/1980 | Brudevold | 364/200 |
| 4,295,205 | 10/1981 | Kunstadt | 364/900 |
| 4,303,990 | 12/1981 | Seipp | 364/900 |
| 4,399,503 | 8/1983 | Hawley | 364/200 |
| 4,399,504 | 8/1983 | Obermarck | 364/200 |
| 4,410,962 | 10/1983 | Daniels | 364/900 |
| 4,453,211 | 6/1984 | Askinazi | 364/200 |
| 4,456,971 | 6/1984 | Fukuda | 364/900 |
| 4,509,122 | 4/1985 | Agnew | 364/200 |



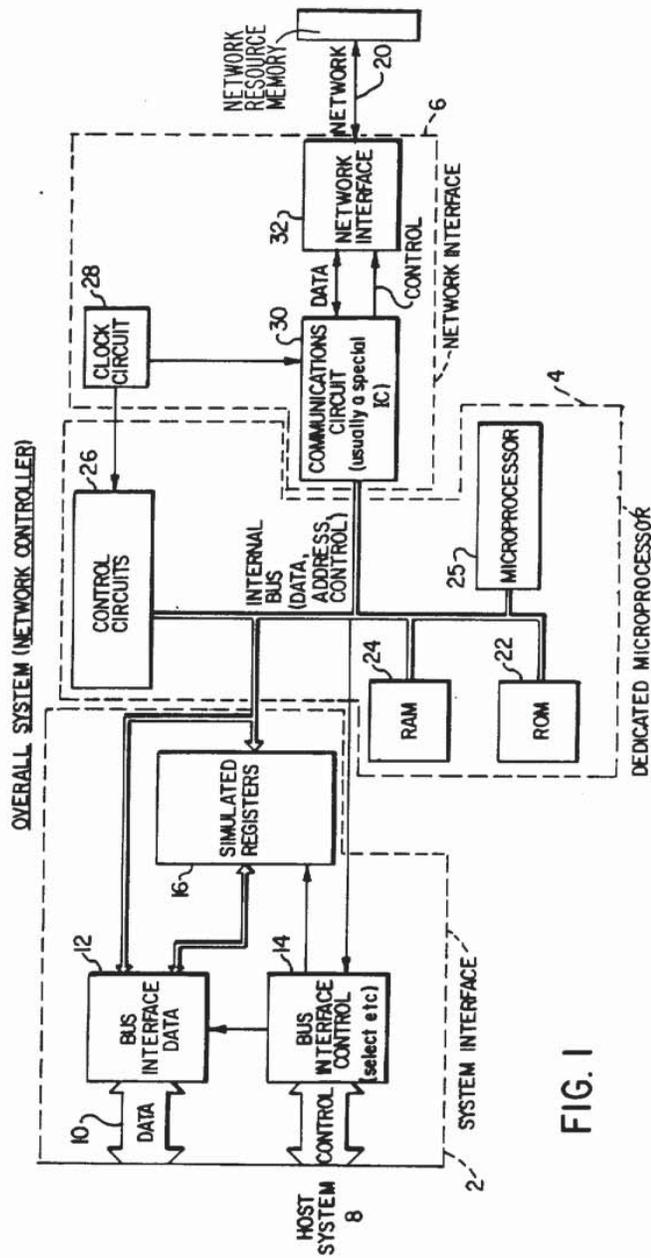
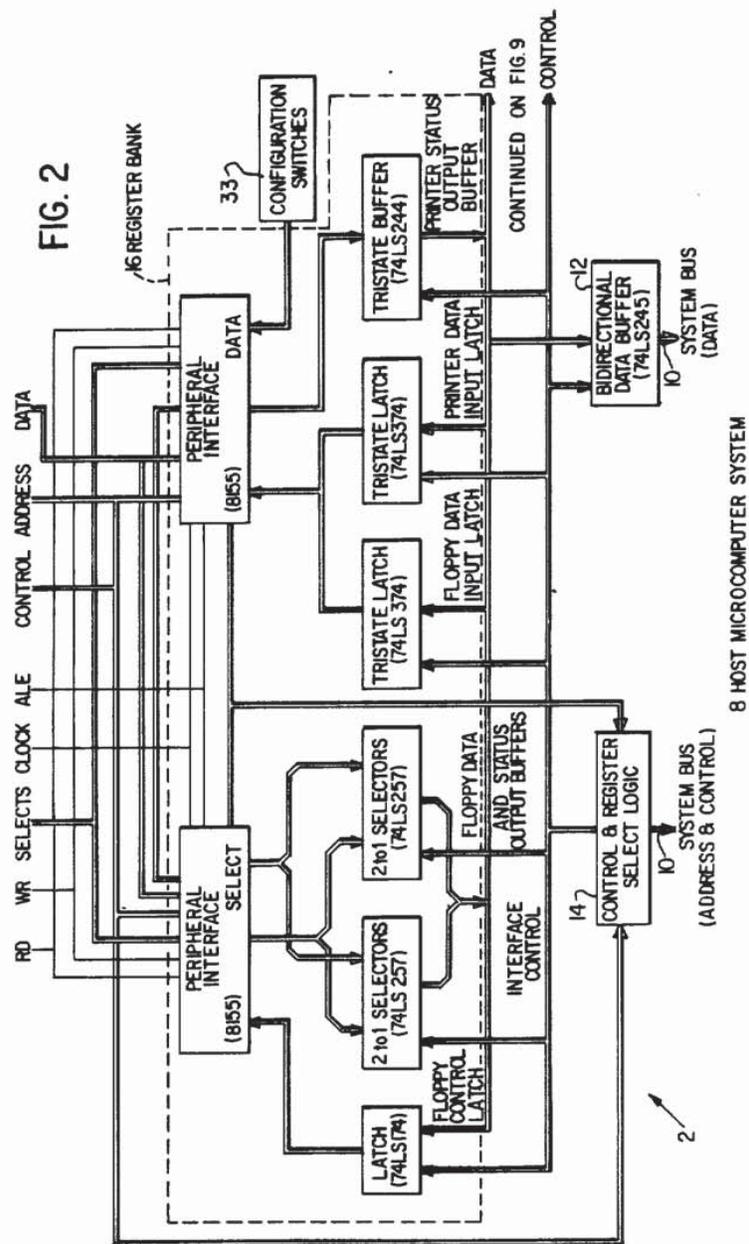


FIG. 1



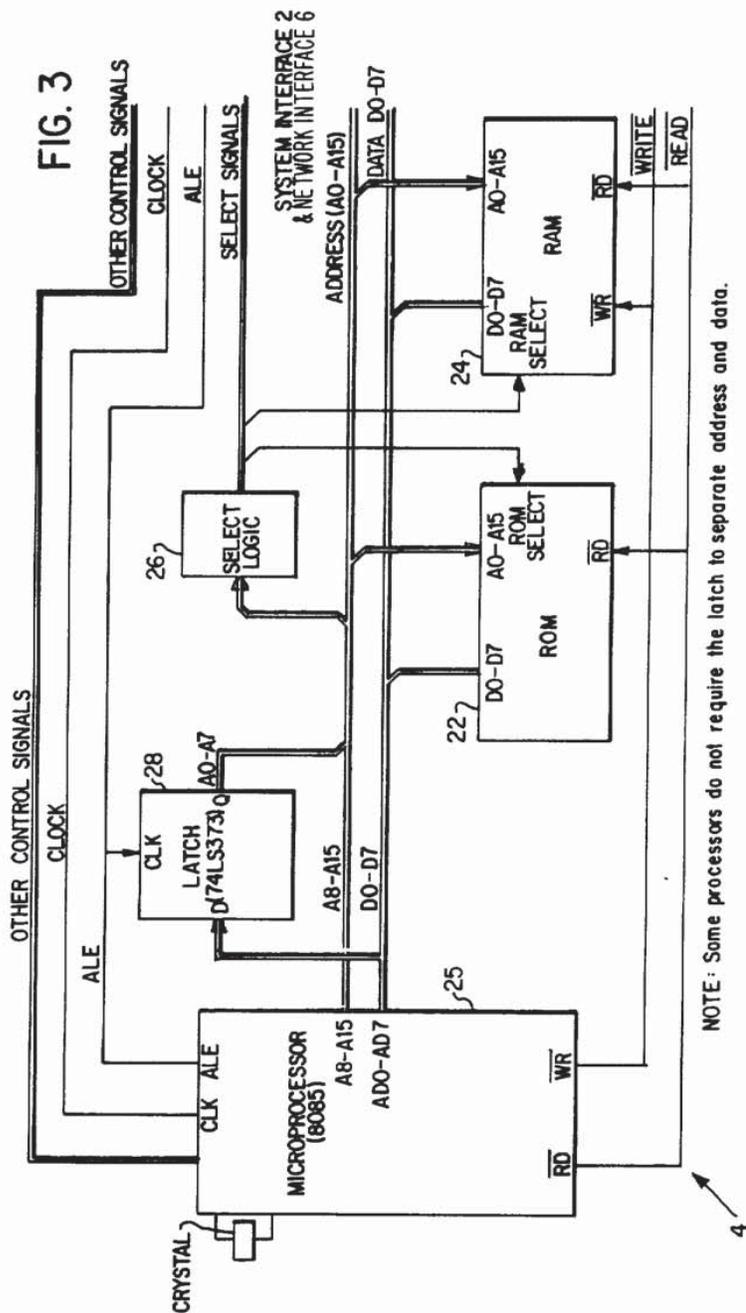
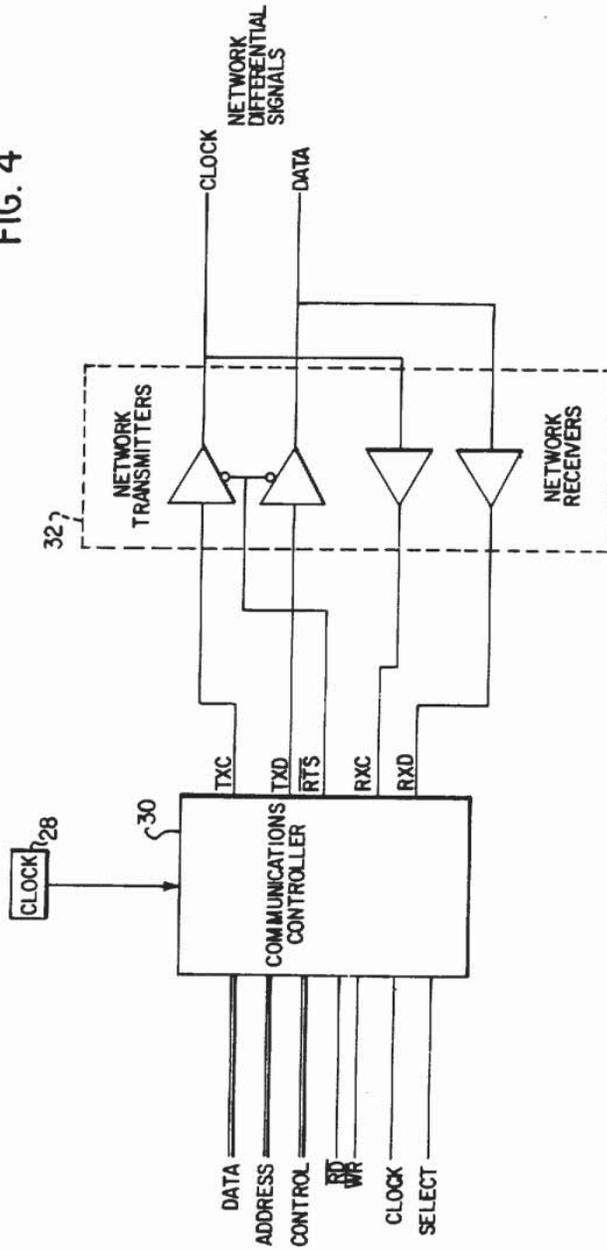


FIG. 4



NOTE: This part of the hardware is variable, and depends on the type of network being used.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.