

United States Patent [19]
Maclean et al.

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 [45] **Date of Patent:** Dec. 20, 1988

- [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

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Assistant Examiner—Florin Munteanu
Attorney, Agent, or Firm—Kenyon & Kenyon

[57] **ABSTRACT**

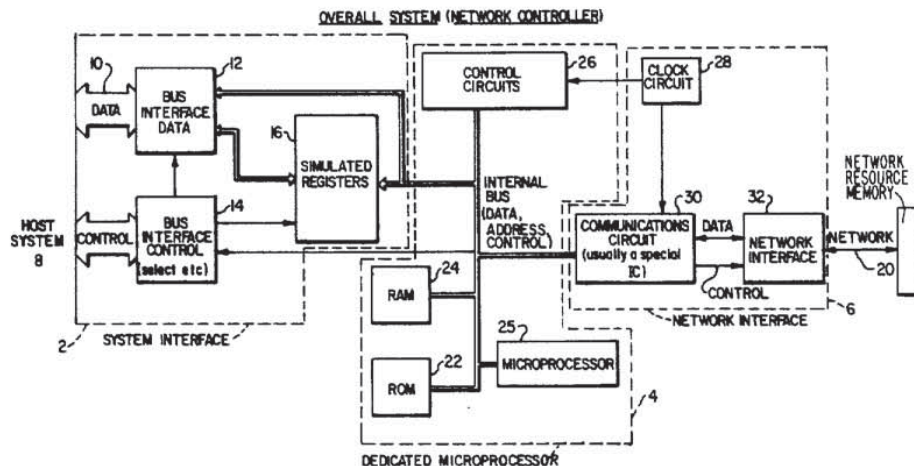
A microprocessor controlled mass storage controller is used as an interface for mass storage devices which are shared by a plurality of stand-alone microcomputer systems. The microprocessor controlled mass storage controller has a system interface which maintains communications with a host microcomputer; 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**

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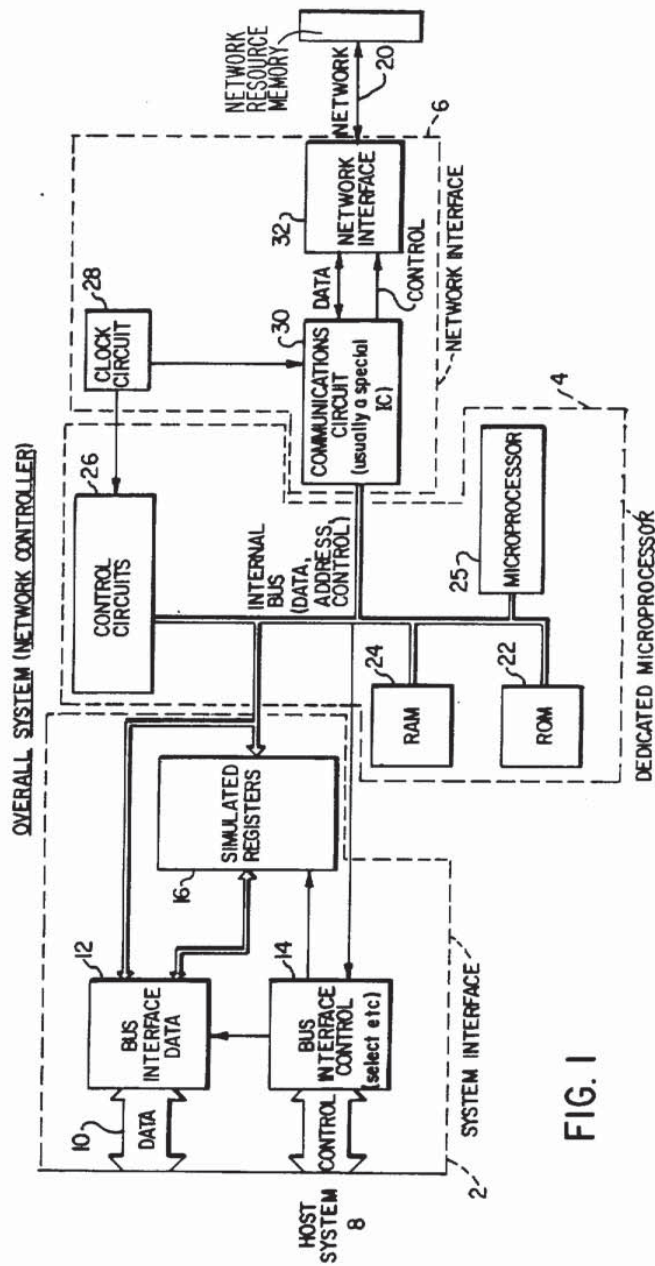
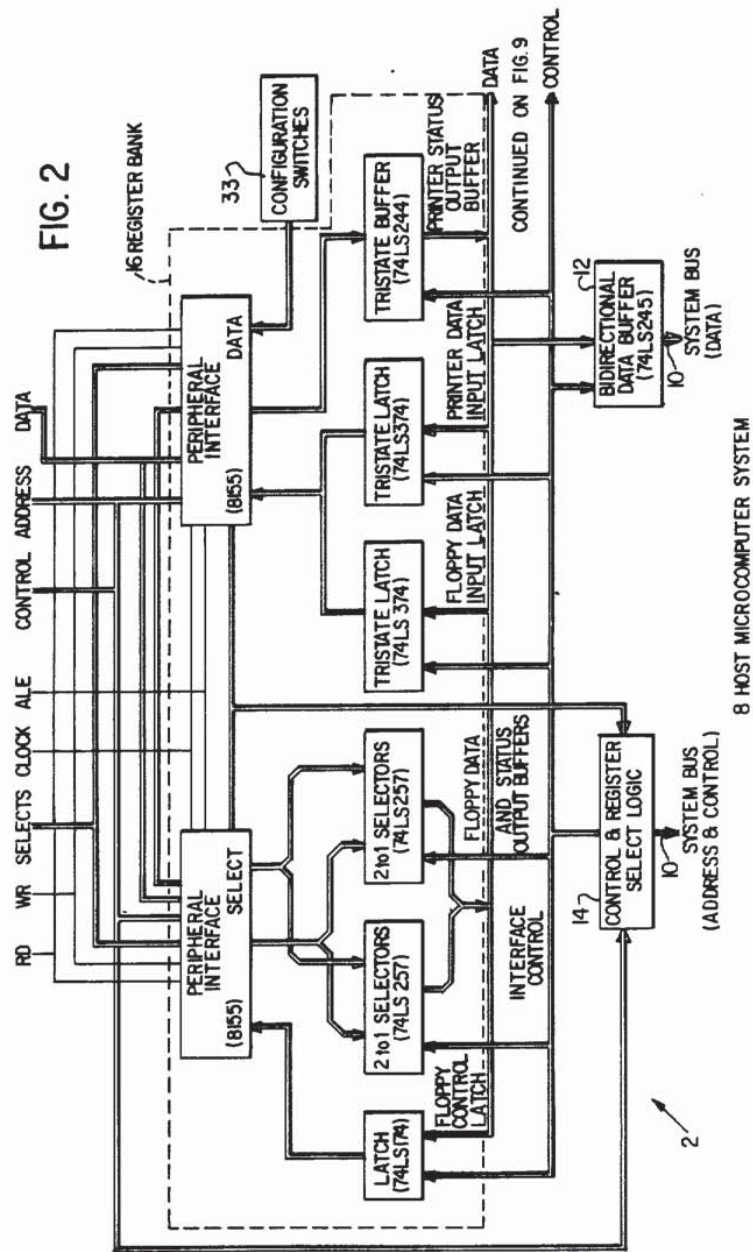


FIG. 1



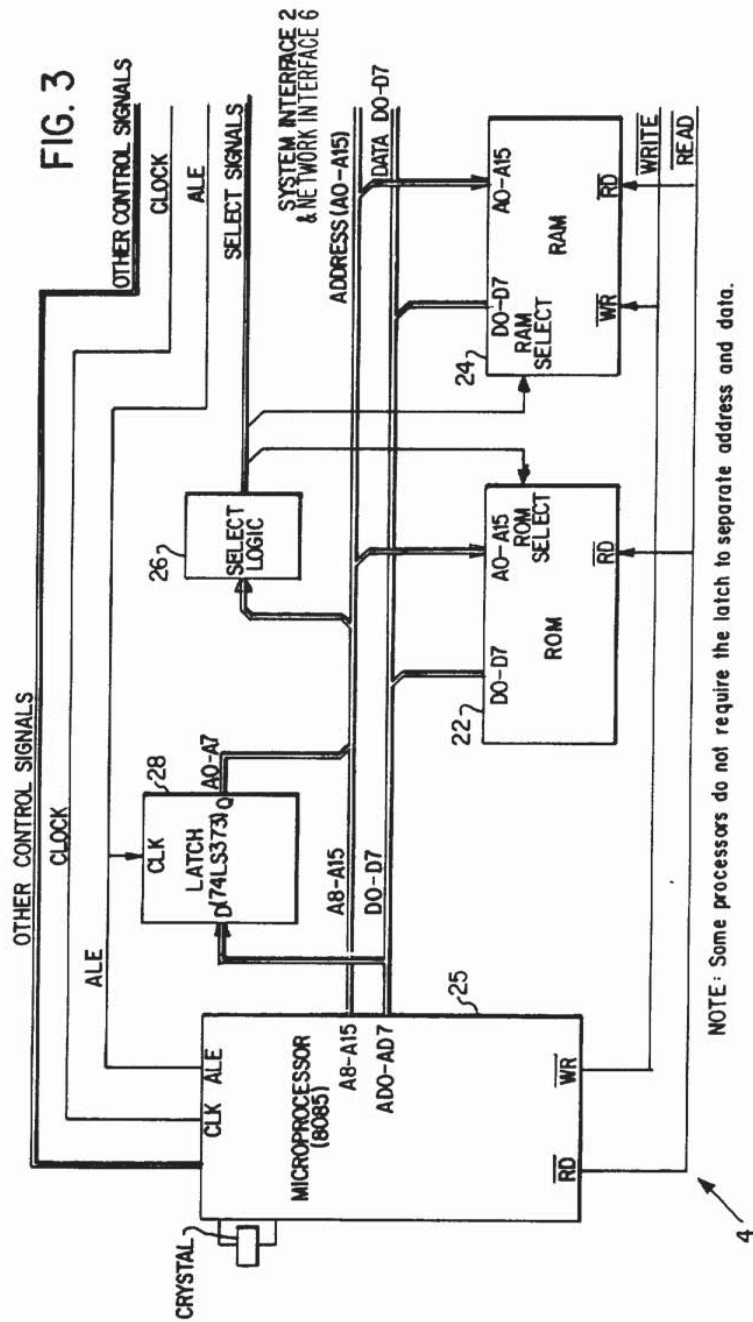
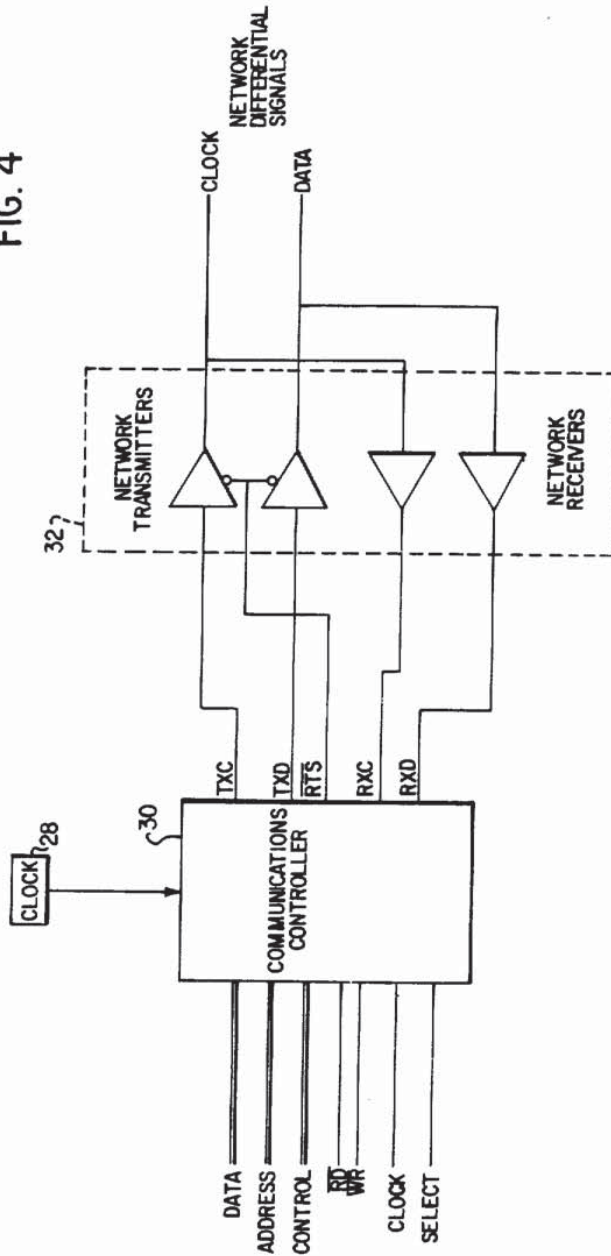


FIG. 4



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

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