

### US005163131A

5,163,131

## United States Patent [19]

## Row et al.

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ris			Levin A. Kriess	
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Attorney, Agent, or Firm-Fliesler, Dubb, Meyer & Lovejoy

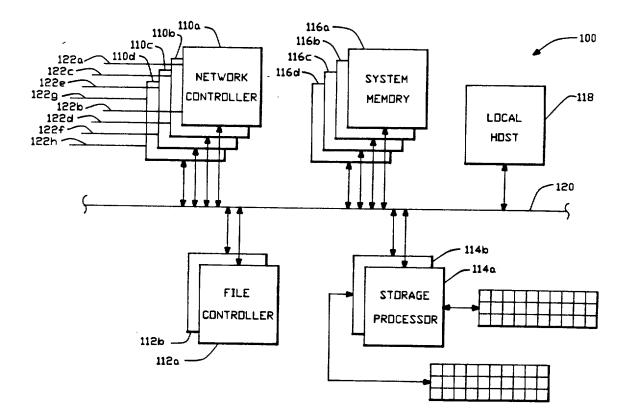
#### [57] ABSTRACT

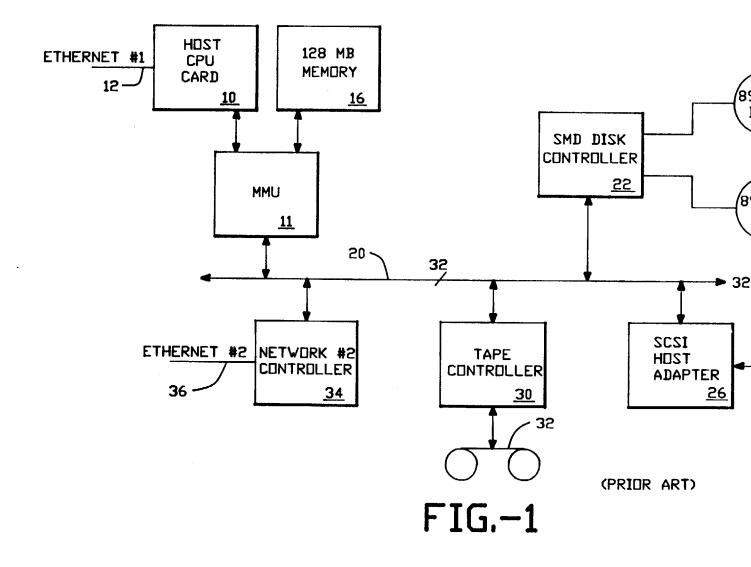
[11]

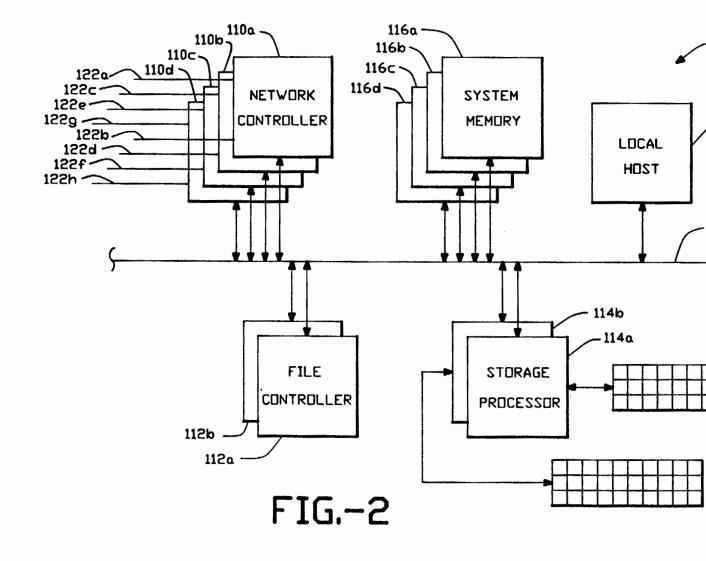
A file server architecture is disclosed, comprising as separate processors, a network controller unit, a file controller unit and a storage processor unit. These units incorporate their own processors, and operate in parallel with a local Unix host processor. All networks are connected to the network controller unit, which performs all protocol processing up through the NFS layer. The virtual file system is implemented in the file control unit, and the storage processor provides high-speed multiplexed access to an array of mass storage devices. The file controller unit control file information caching through its own local cache buffer, and controls disk data caching through a large system memory which is accessible on a bus by any of the processors.

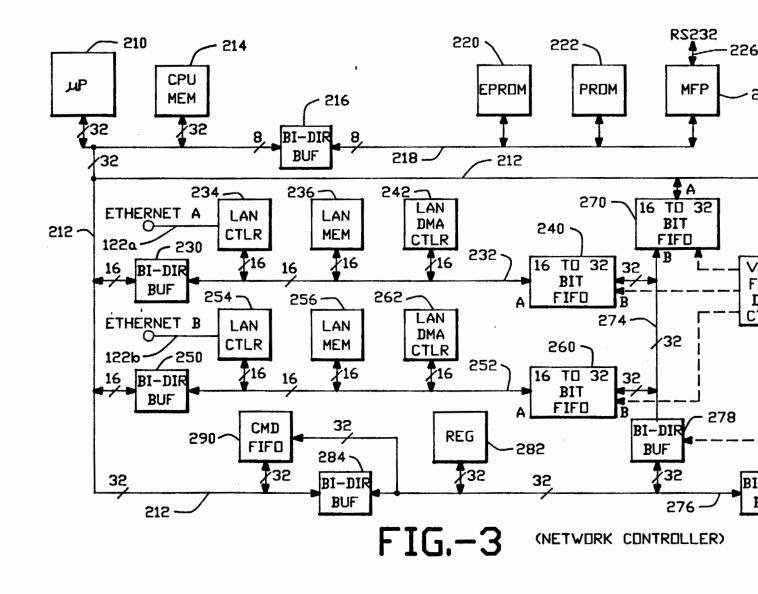
#### 67 Claims, 12 Drawing Sheets

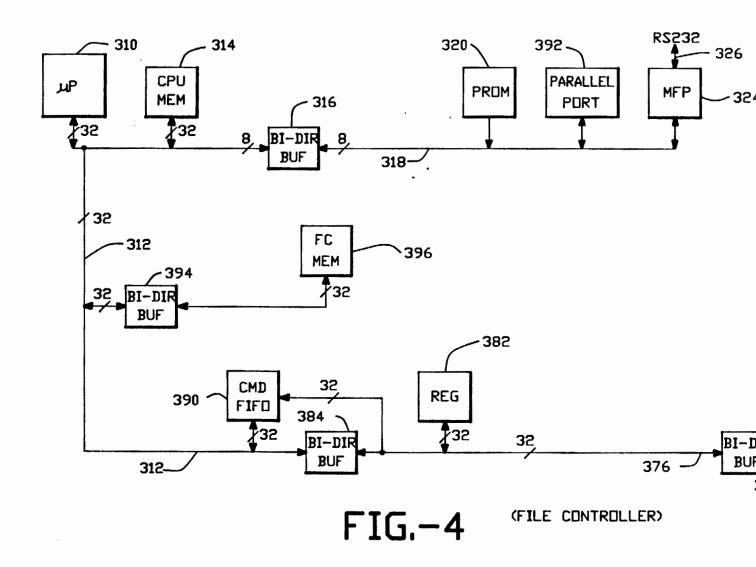
[54]	PARALLEL I/O NETWORK FILE SERVER ARCHITECTURE					
[75]		Edward J. Row, Mountain View; Laurence B. Boucher, Saratoga; William M. Pitts, Los Altos; Stephen E. Blightman, San Jose, all of Calif.				
[73]	Assignee:	Auspex Systems, Inc., Santa Clara, Calif.				
[21]	Appl. No.:	404,959				
[22]	Filed:	Sep. 8, 1989				
[51] [52]	U.S. Cl					
[58]	Field of Sea	arch 364/200 MS File, 900 MS File; 395/200, 650				
[56]	[56] References Cited					
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