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Kim

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(54) **DISK SYSTEM ADAPTED TO BE DIRECTLY ATTACHED TO NETWORK**

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G06F 15/16 (2006.01)
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(52) **U.S. Cl.** **709/217**; 709/218; 709/236; 709/246; 709/250; 710/5; 710/36; 711/110
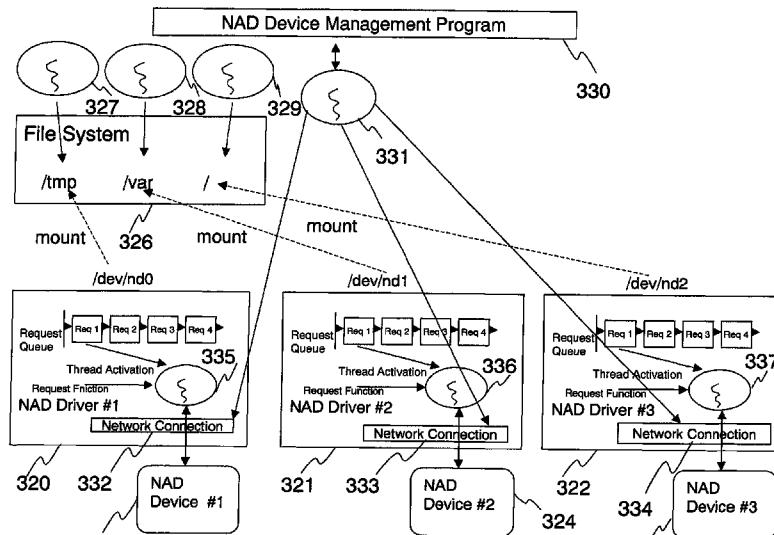
(58) **Field of Classification Search** 709/217, 709/218, 236, 246, 250; 711/110; 710/5
See application file for complete search history.

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(57) **ABSTRACT**

A network-attached disk (NAD) system is disclosed that includes an NAD device for receiving a disk access command from a host through a network, and a device driver at the host for controlling the NAD device through the network, where the device driver creates a virtual host bus adapter so that the host recognizes the NAD device as if it is a local device to the host. The host may run the UNIX or Windows family of operating systems. The NAD device includes a disk for storing data, a disk controller for controlling the disk, and a network adapter for receiving a disk access command from the host through a network port.

22 Claims, 24 Drawing Sheets

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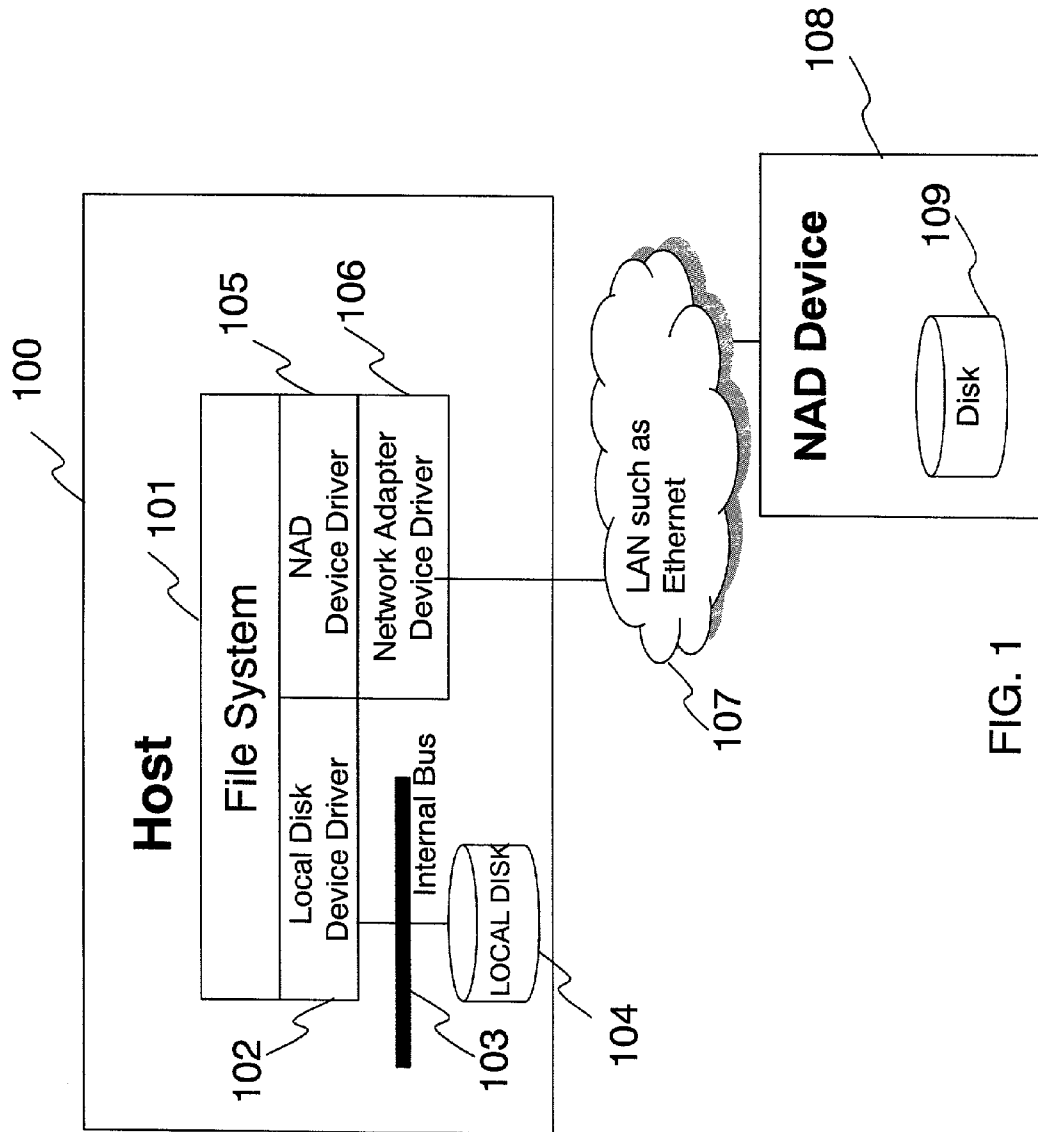Japanese Office Action, App. No. 513300/2003, Feb. 6, 2007.
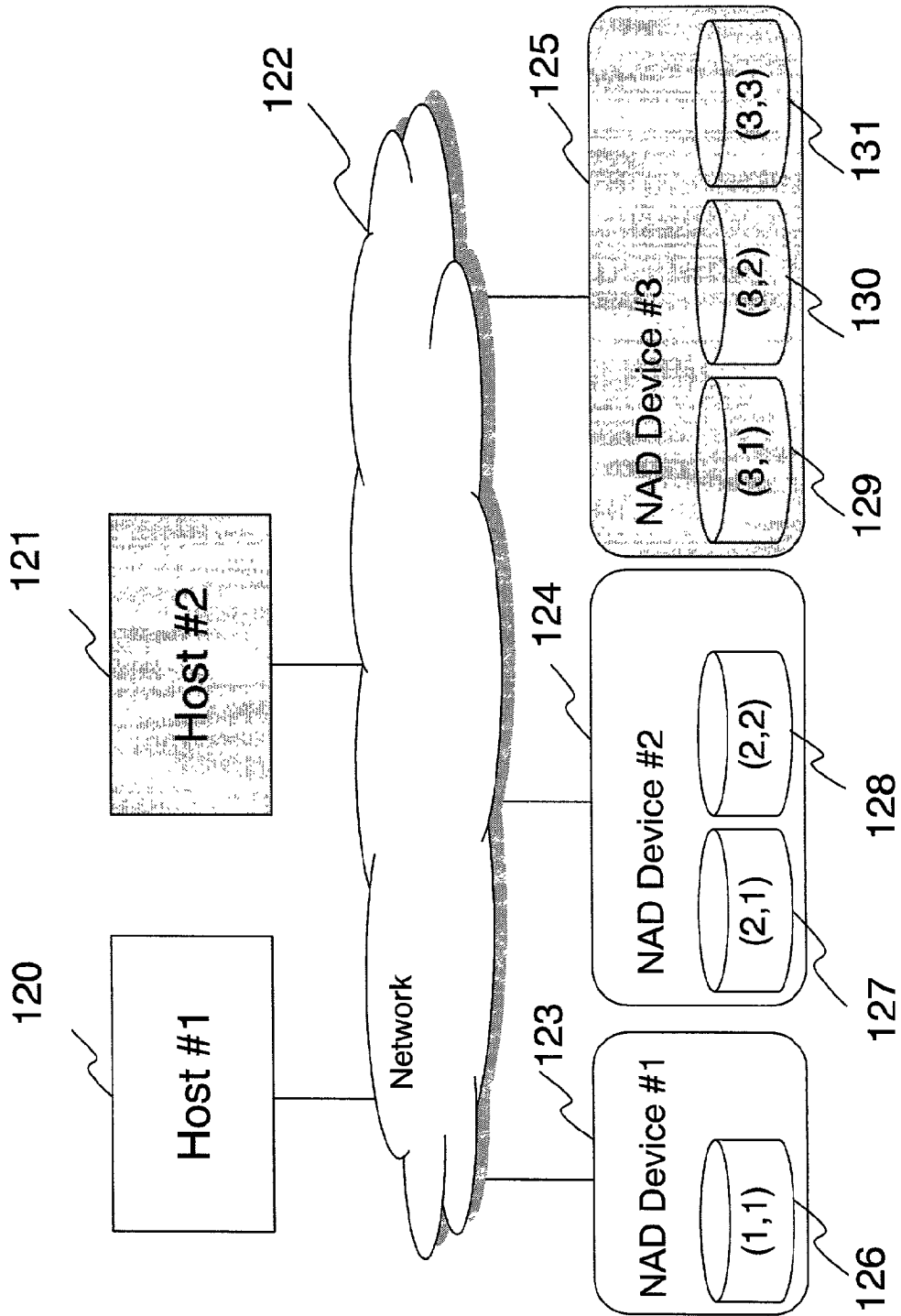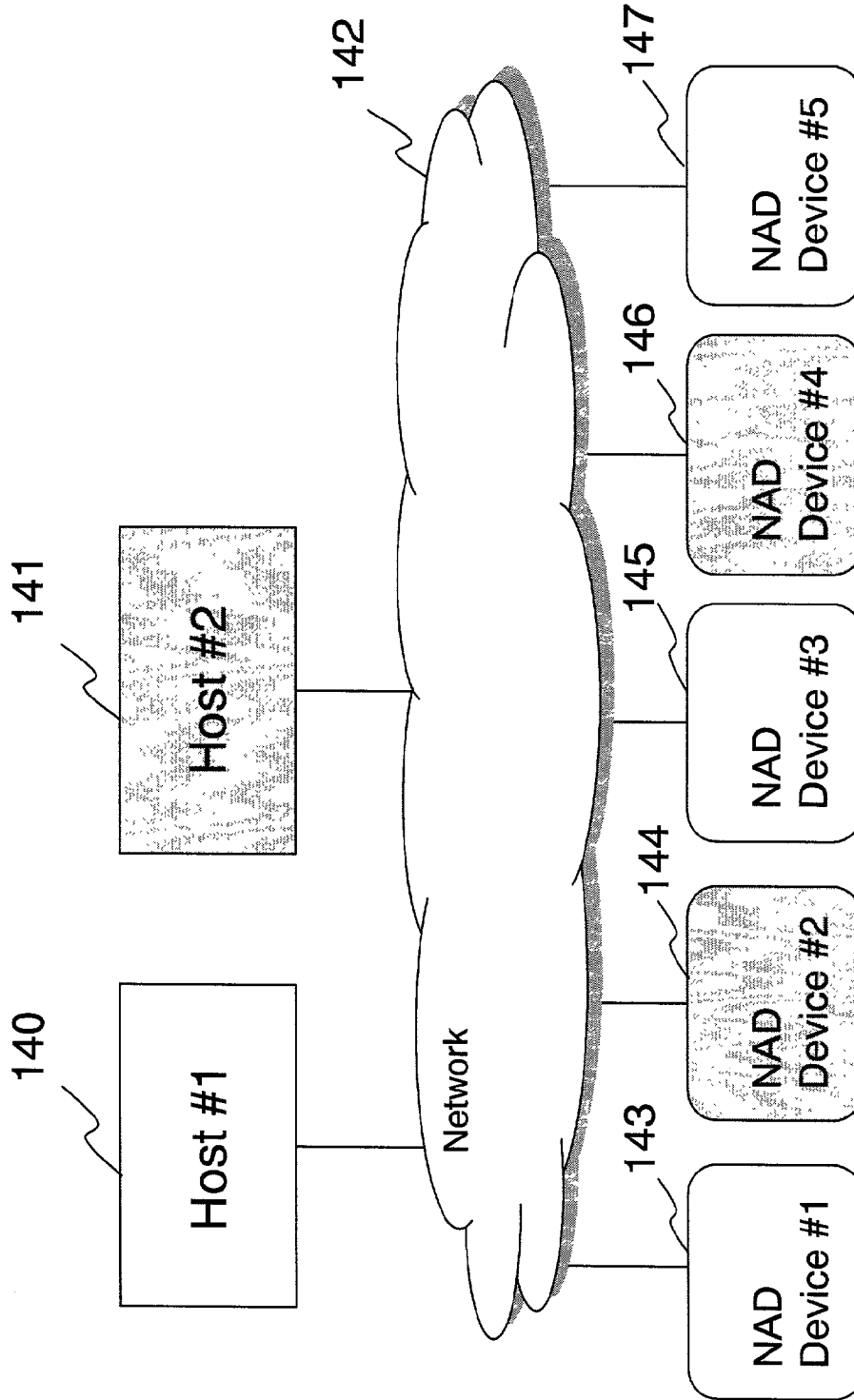
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FIG. 1

FIG. 2

FIG. 3

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