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(12) United States Patent

Baek et al.

(54) APPARATUS FOR REDUNDANT INTERCONNECTION BETWEEN MULTIPLE HOSTS AND RAID

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(65) **Prior Publication Data**

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(30) Foreign Application Priority Data

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- (51) Int. Cl.⁷ G06F 13/00; G06F 12/00
- (52) U.S. Cl. 711/114; 709/250

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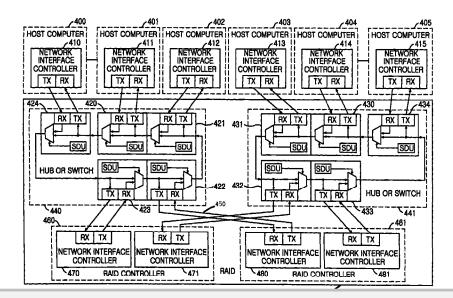
Primary Examiner-Krisna Lim

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(57) ABSTRACT

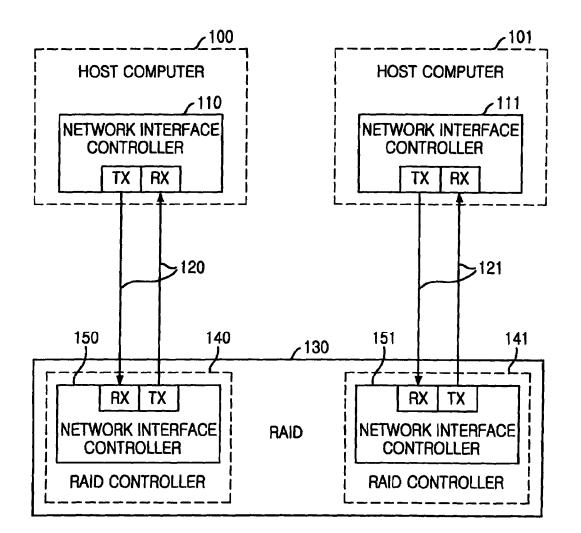
The apparatus for a redundant interconnection between multiple hosts and a redundant array of inexpensive disks (hereinafter, referred to as 'RAID'), which is capable of supporting a fault tolerance of RAID controllers and simultaneously heightening a performance, comprises a plurality of RAID controlling units for processing a requirement of numerous host computers connected with one another through the industrial standard communication network and for fault tolerance; a plurality of connecting units for connecting the plurality of RAID controlling units to the numerous host computers; and a plural number of network interface controlling units respectively contained into the plurality of RAID controlling units, for exchanging information directly with an opposite network interface controlling unit provided within an opposite RAID controlling unit and the numerous host computers, through the plurality of connecting units.

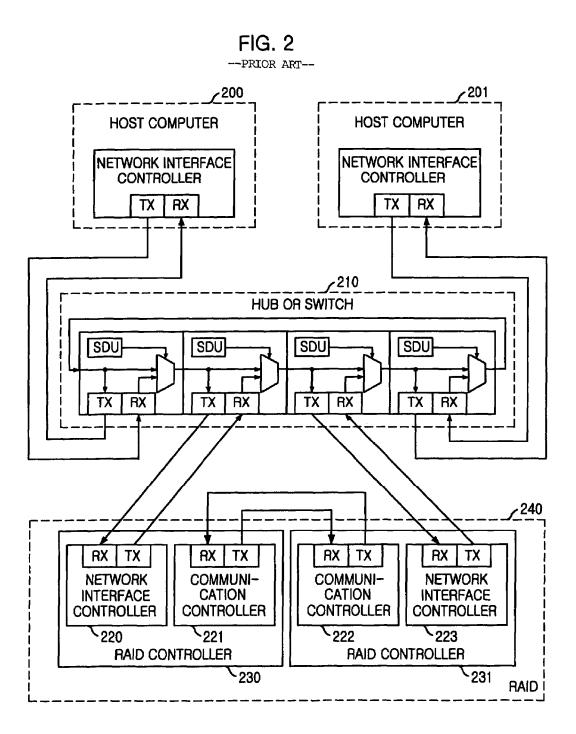
9 Claims, 6 Drawing Sheets





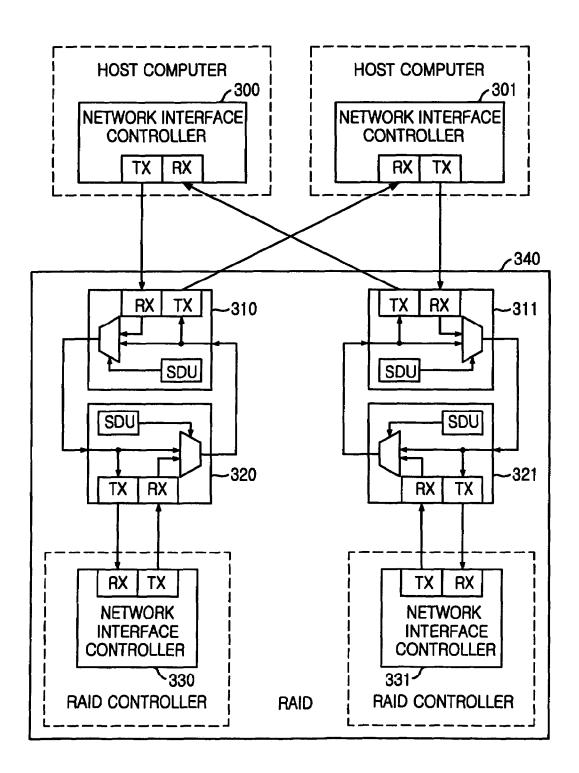
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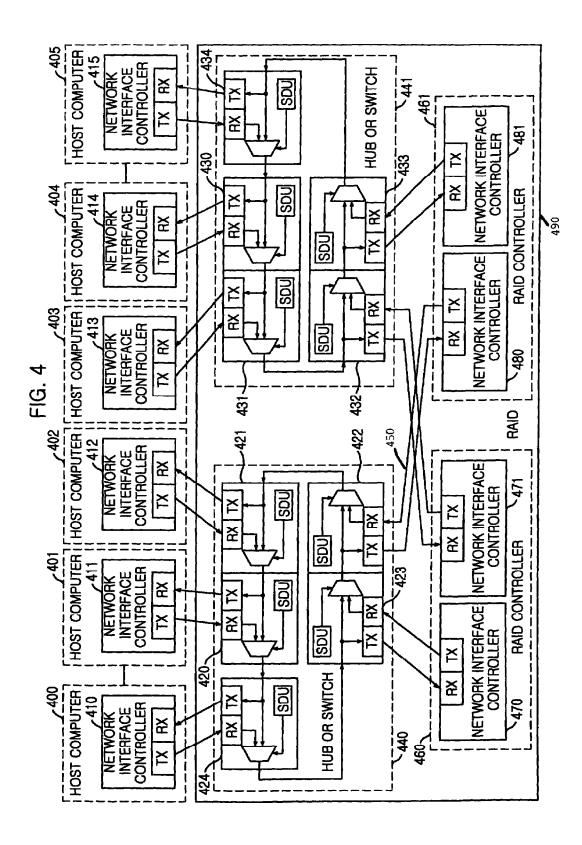
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