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Gertner

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(54) **DATA SHARING USING DISTRIBUTED CACHE IN A NETWORK OF HETEROGENEOUS COMPUTERS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 237 days.

This patent is subject to a terminal disclaimer.

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(65) **Prior Publication Data**
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Related U.S. Application Data

(60) Continuation of application No. 13/527,126, filed on Jun. 19, 2012, now abandoned, which is a continuation of application No. 10/382,016, filed on Mar. 5, 2003, now Pat. No. 8,225,002, which is a (Continued)

(51) **Int. Cl.**
G06F 3/06 (2006.01)
H04L 29/08 (2006.01)
G06F 17/30 (2006.01)
G06F 12/0808 (2016.01)

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CPC **H04L 67/1097** (2013.01); **G06F 3/065** (2013.01); **G06F 3/067** (2013.01); **G06F 3/0619** (2013.01); **G06F 3/0635** (2013.01); **G06F 12/0808** (2013.01); **G06F 12/128** (2013.01); **G06F 17/30569** (2013.01); **H04L 67/2842** (2013.01); **G06F 12/12** (2013.01); **G06F 2212/621** (2013.01); **G06F 2212/69** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

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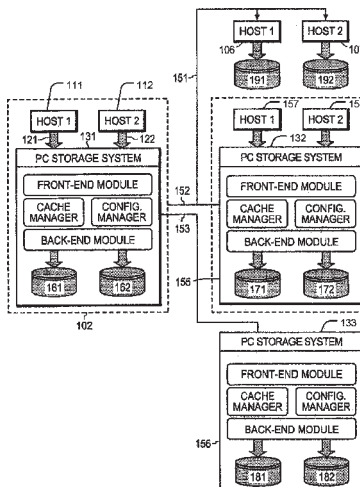
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(57) **ABSTRACT**

A network of PCs includes an I/O channel adapter and network adapter, and is configured for management of a distributed cache memory stored in the plurality of PCs interconnected by the network. The use of standard PCs reduces the cost of the data storage system. The use of the network of PCs permits building large, high-performance, data storage systems.

24 Claims, 13 Drawing Sheets



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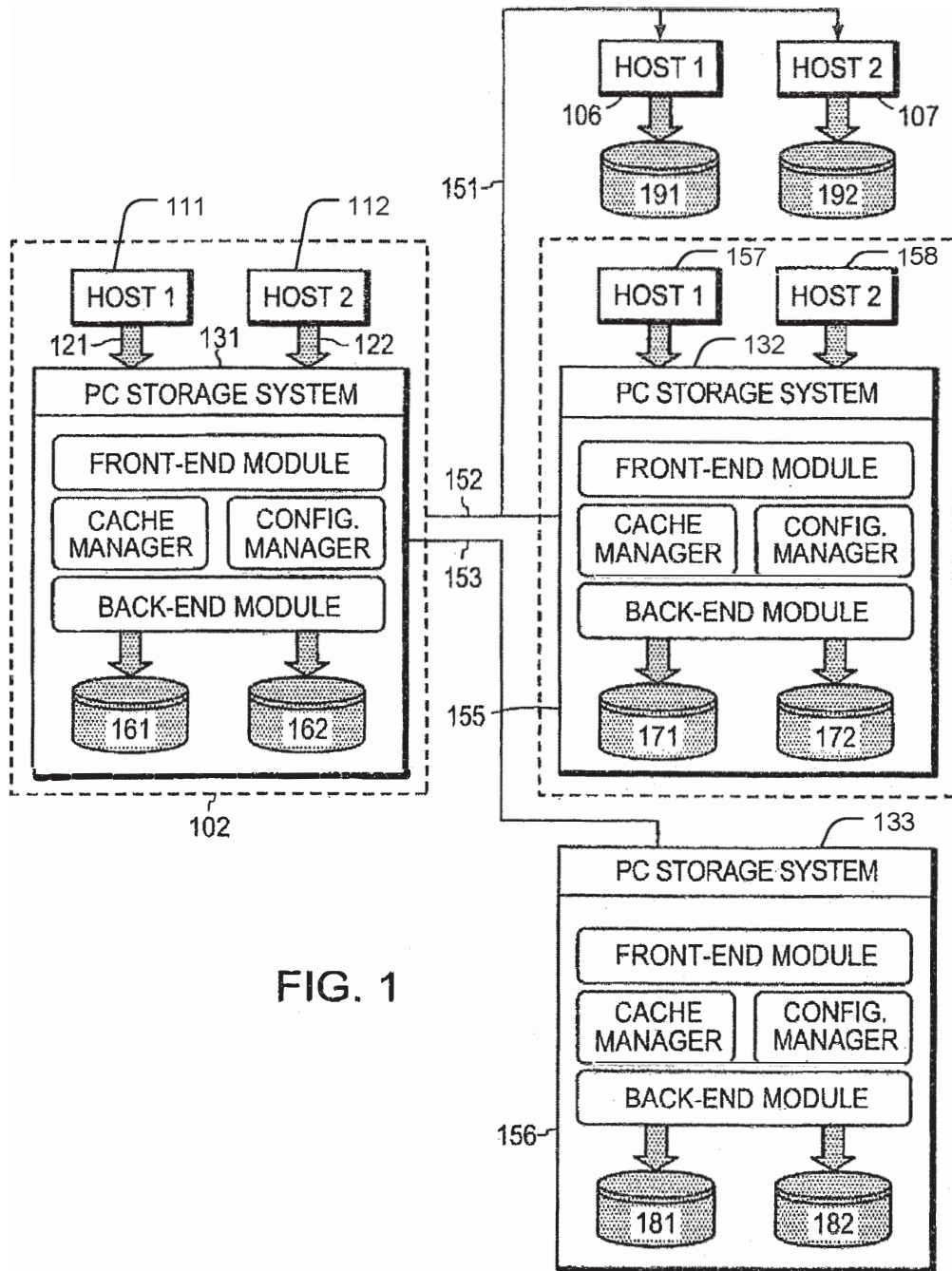


FIG. 1

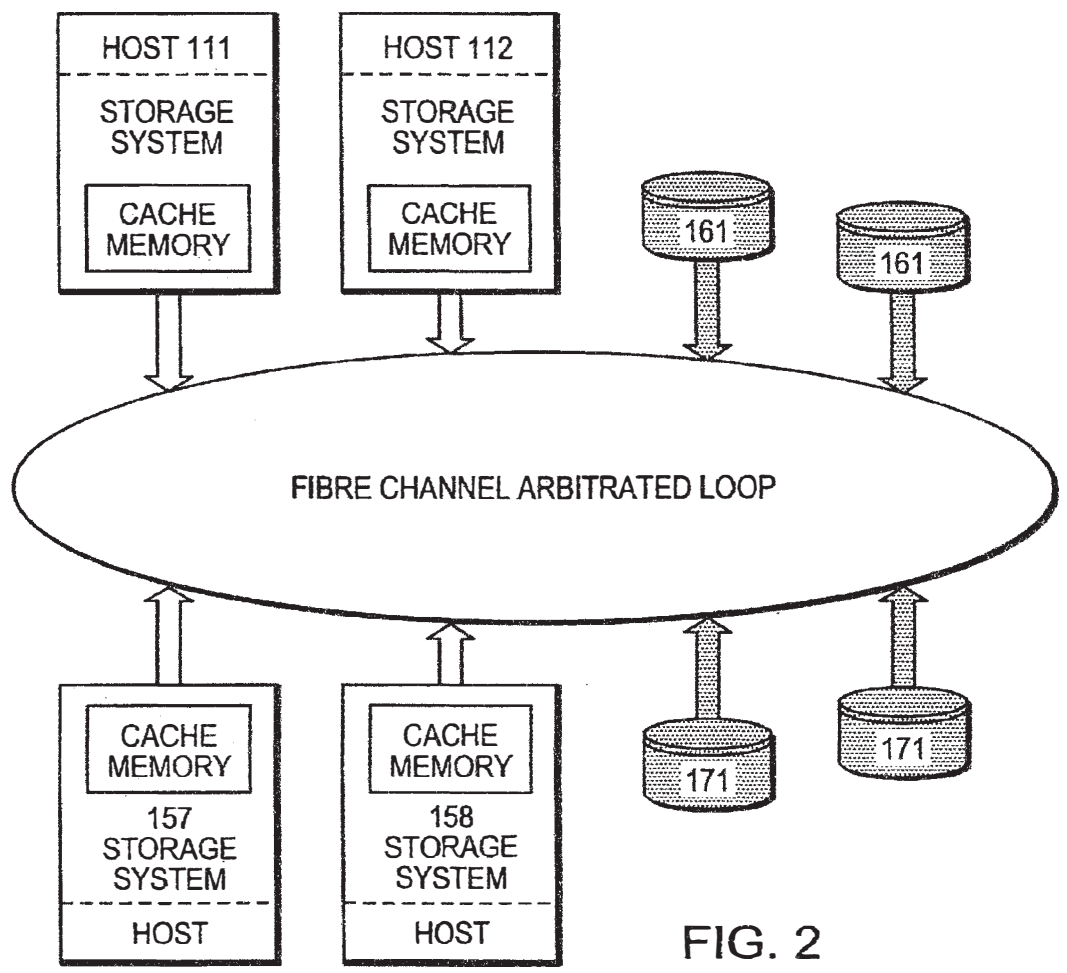


FIG. 2

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