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(12) **United States Patent**
Lo et al.

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(54) **DISTRIBUTED STORAGE MANAGEMENT PLATFORM ARCHITECTURE**

(52) **U.S. Cl.** 710/2; 710/38; 710/313

(58) **Field of Search** 710/1-2, 8, 29, 710/36-38, 51, 62-64, 72-74, 305-317; 711/100, 114; 709/249; 714/7, 48; 716/2

(75) Inventors: **Horatio Lo**, Milpitas, CA (US); **Sam Tam**, Belmont, CA (US); **David Lee**, San Jose, CA (US); **Dietmar M. Kurpanek**, Emerald Hills, CA (US)

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(73) Assignee: **Vicom Systems, Inc.**, Fremont, CA (US)

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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 77 days.

* cited by examiner

(21) Appl. No.: **09/904,824**

Primary Examiner—Christopher B. Shin

(22) Filed: **Jul. 12, 2001**

(74) *Attorney, Agent, or Firm*—Campbell Stephenson Ascolese LLP; Samuel G. Campbell, III

(65) **Prior Publication Data**

US 2002/0103943 A1 Aug. 1, 2002

(57) **ABSTRACT**

Related U.S. Application Data

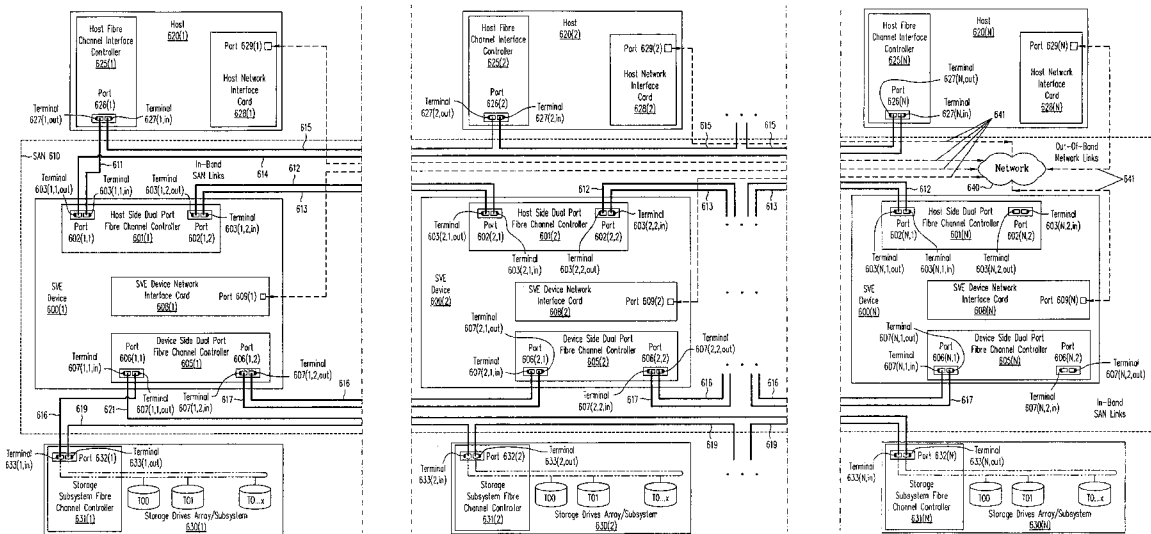
(63) Continuation-in-part of application No. 09/501,881, filed on Feb. 10, 2000, now Pat. No. 6,772,270.

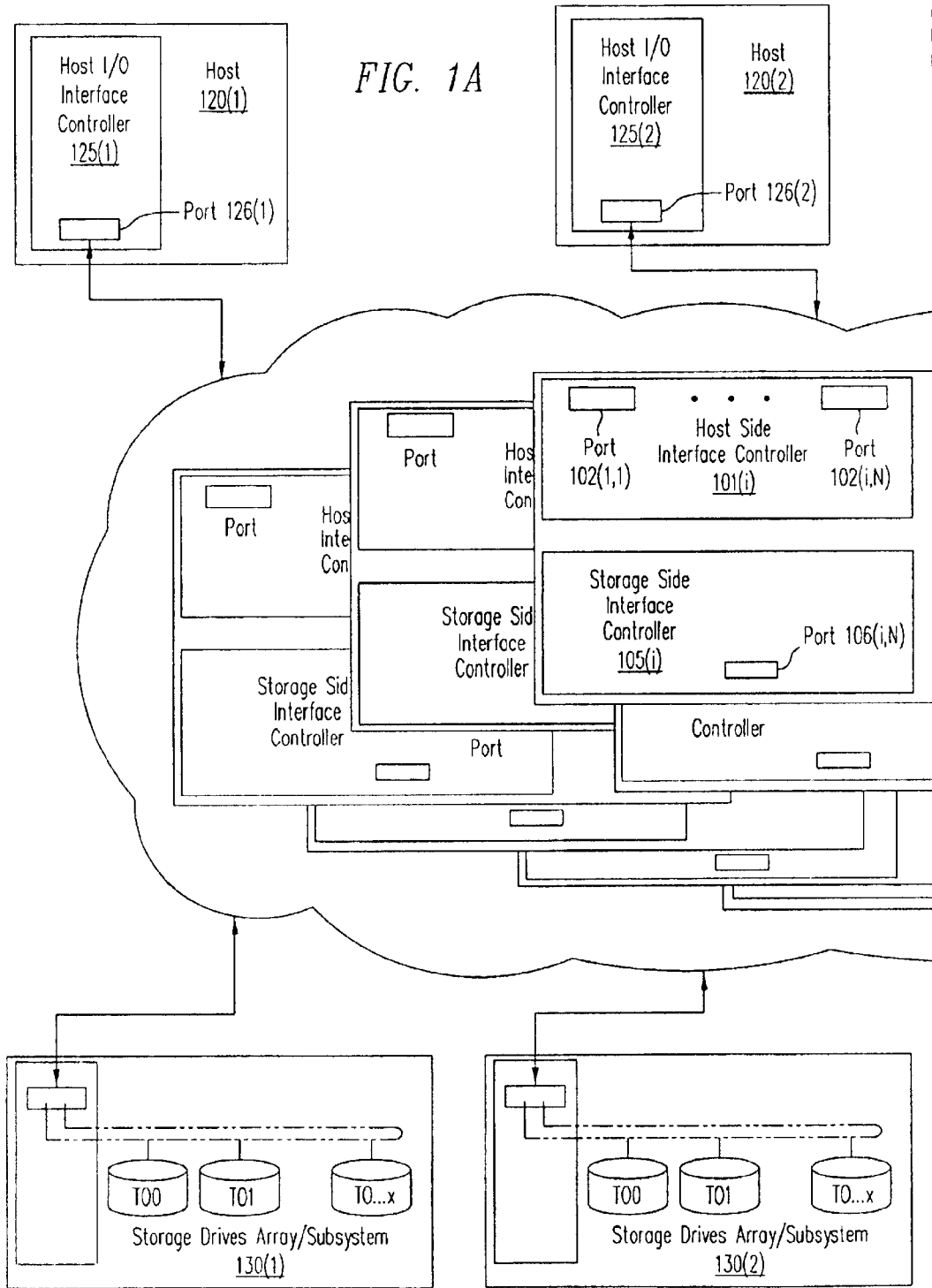
A distributed storage management platform (DSMP) architecture is disclosed. Such a DSMP architecture includes a number of storage routers. Each one of the storage routers comprises a number of interface controllers. One of the interface controllers of each one of the storage routers is communicatively coupled to one of the interface controllers of at least one other of the storage routers.

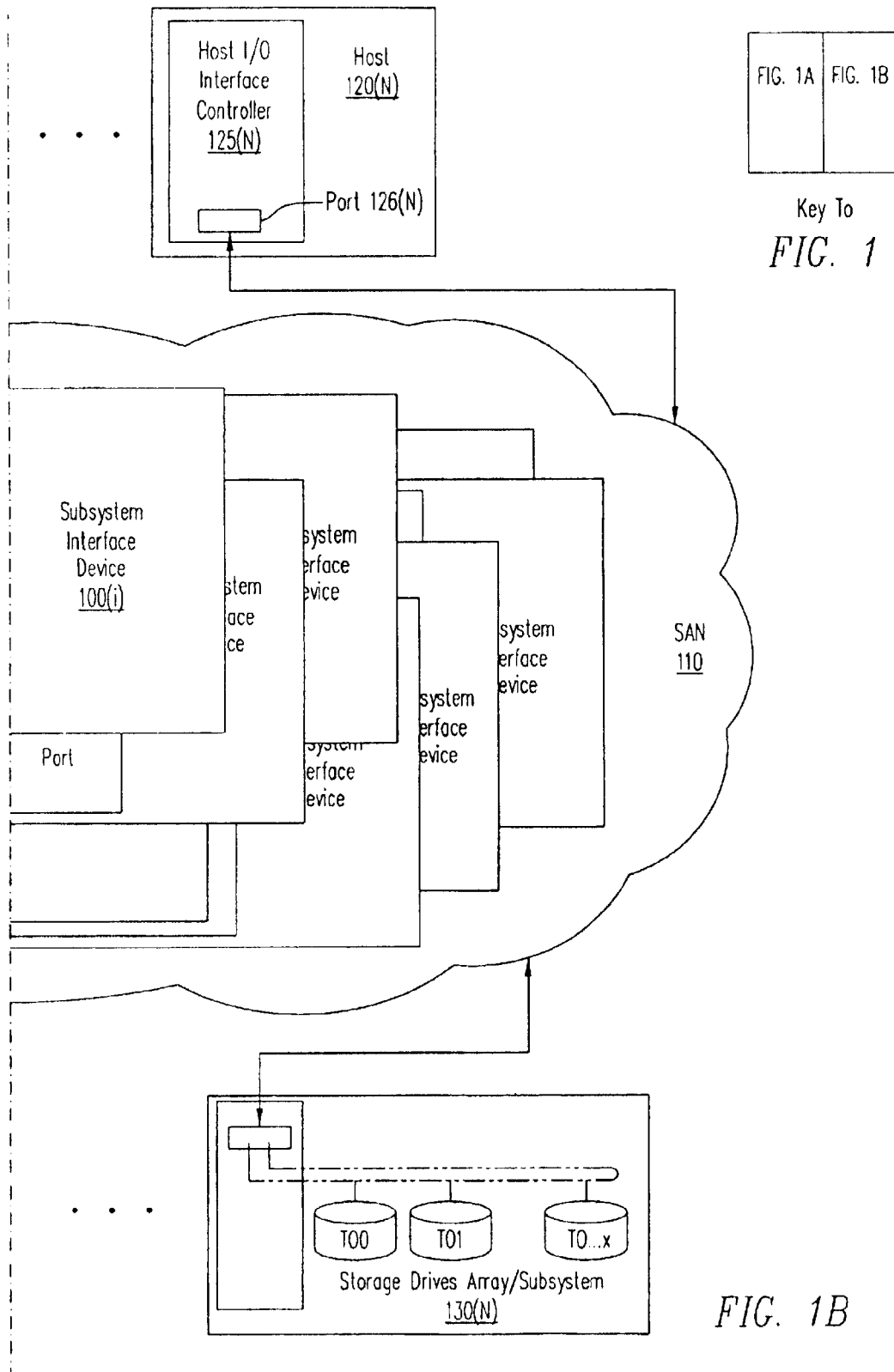
(60) Provisional application No. 60/268,777, filed on Feb. 14, 2001, and provisional application No. 60/217,867, filed on Jul. 12, 2000.

(51) **Int. Cl.**⁷ **G06F 13/00**

38 Claims, 18 Drawing Sheets







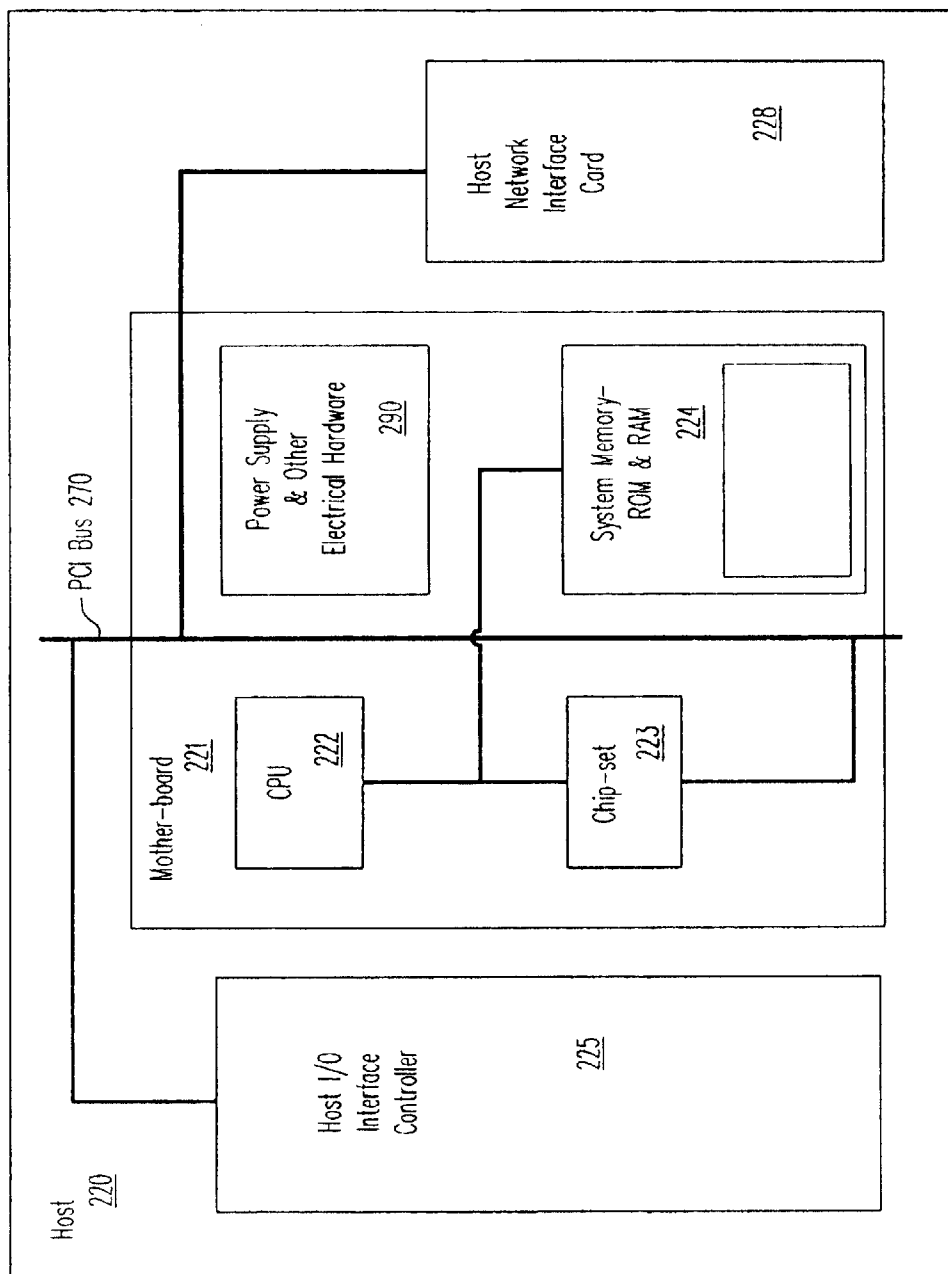


FIG. 2

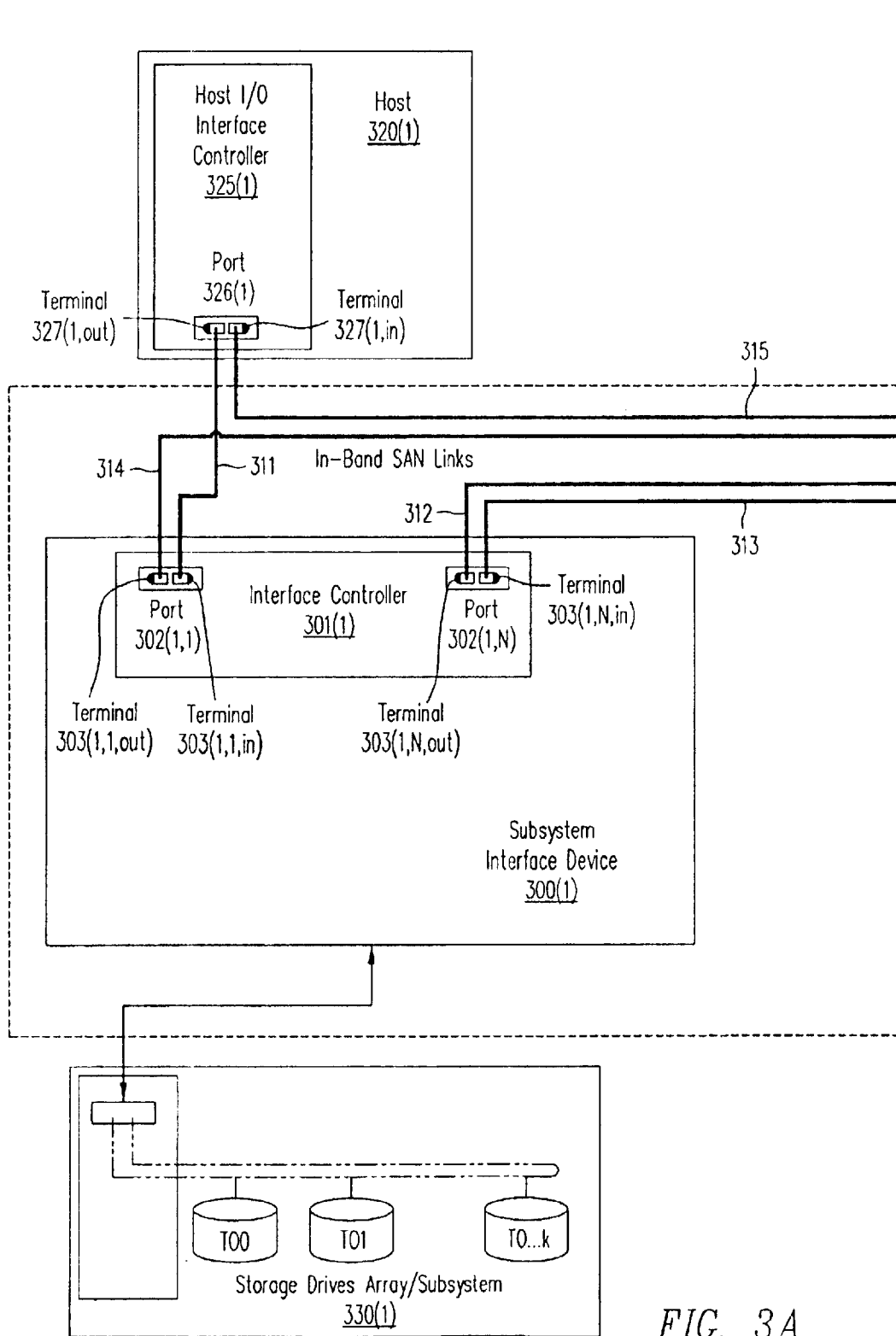


FIG. 3A

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