EXHIBIT 5



(12) United States Patent Carlson et al.

(10) Patent No.: US

US 8,671,132 B2

Mar. 11, 2014

(54) SYSTEM, METHOD, AND APPARATUS FOR POLICY-BASED DATA MANAGEMENT

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U.S.C. 154(b) by 2908 days.

(21) Appl. No.: 10/389,408

(22) Filed: Mar. 14, 2003

(65) Prior Publication Data

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(51) Int. Cl. G06F 15/16 (2006.0

G06F 15/16 (2006.01) (52) U.S. Cl.

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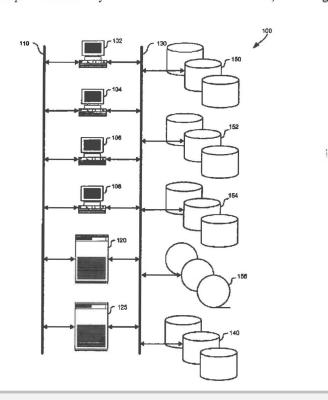
* cited by examiner

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(57) ABSTRACT

A policy-based data management system, method, and apparatus are disclosed. The system, method, and apparatus are configured to operate over a distributed storage system such as a storage area network (SAN). Files to be stored on the network are each assigned a service class and a storage pool based on the application of policies to file attributes such as file name, type, user, etc. The service class and storage pool designations are stored as metadata. Files may be retrieved using the metadata to identify the storage pool where the file is stored, and the service class listed within the metadata may be used to control the manner in which the file is handled. A metadata server may be utilized to provide the appropriate service class of files in response to requests from remote clients that may be of different computing platforms.

27 Claims, 8 Drawing Sheets





U.S. Patent Mar. 11, 2014 Sheet 1 of 8 US 8,671,132 B2

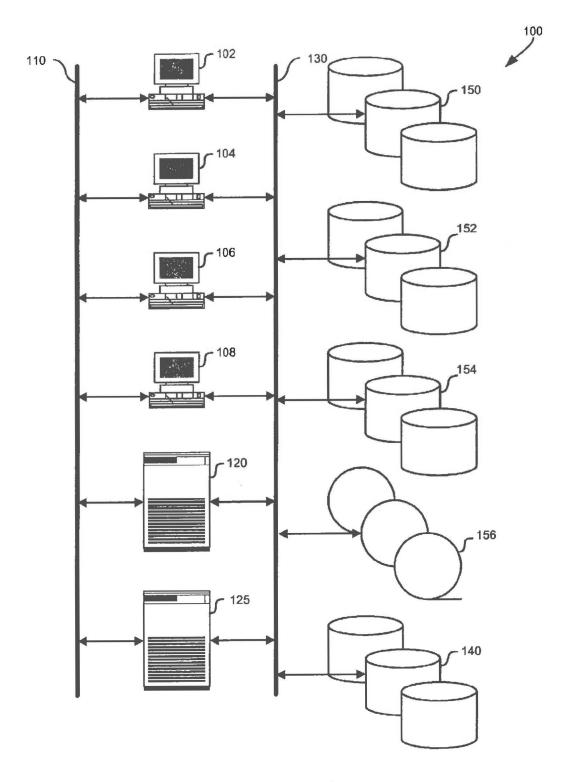


Fig. 1

U.S. Patent

Mar. 11, 2014

Sheet 2 of 8

US 8,671,132 B2

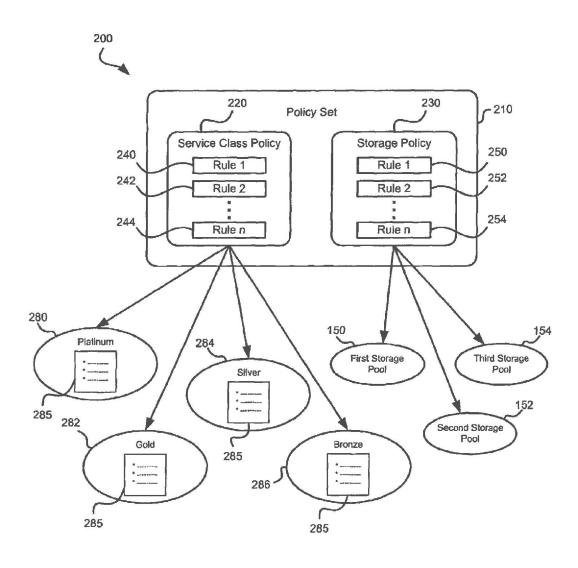


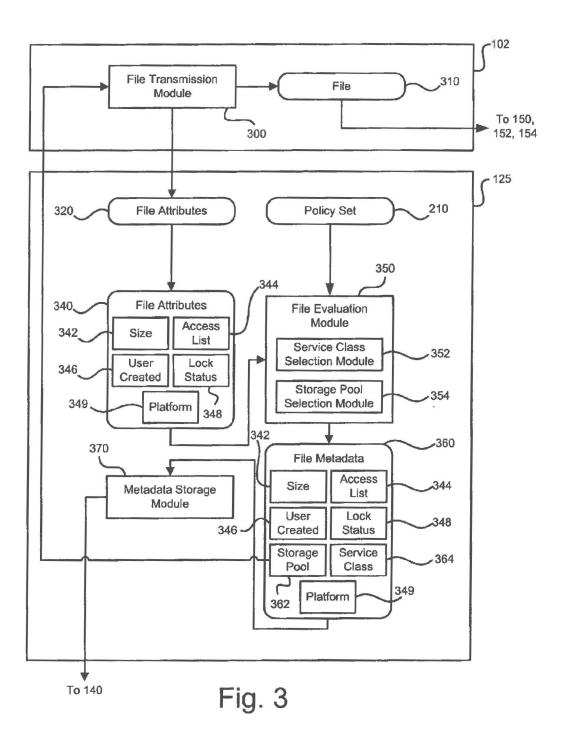
Fig. 2

U.S. Patent

Mar. 11, 2014

Sheet 3 of 8

US 8,671,132 B2



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