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Moore et al.

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(54) **SYSTEM OF AND METHOD FOR
TRANSPARENT MANAGEMENT OF DATA
OBJECTS IN CONTAINERS ACROSS
DISTRIBUTED HETEROGENOUS
RESOURCES**

(75) Inventors: **Reagan W. Moore**, San Diego, CA
(US); **Arcot Rajasekar**, Del Mar, CA
(US); **Michael Y. Wan**, San Diego, CA
(US)

(73) Assignee: **General Atomics**, San Diego, CA (US)

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(52) **U.S. Cl.** **707/200; 707/10; 707/103 R;**
709/201

(58) **Field of Search** 707/3, 8, 10, 100,
707/102, 103 R, 203, 205; 709/201, 203,
310, 316, 200; 714/43

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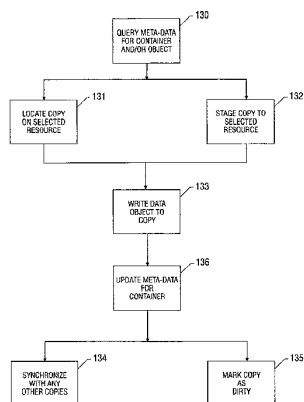
Primary Examiner—Shahid Alam

(74) *Attorney, Agent, or Firm*—Howrey Simon Arnold & White, LLP

(57) **ABSTRACT**

A system of and method for maintaining data objects in containers across a network of distributed heterogeneous resources in a manner which is transparent to a client. A client request pertaining to containers is resolved by querying meta data for the container, processing the request through one or more copies of the container maintained on the system, updating the meta data for the container to reflect any changes made to the container as a result processing the request, and, if a copy of the container has changed, changing the status of the copy to indicate dirty status or synchronizing the copy to one or more other copies that may be present on the system.

17 Claims, 27 Drawing Sheets



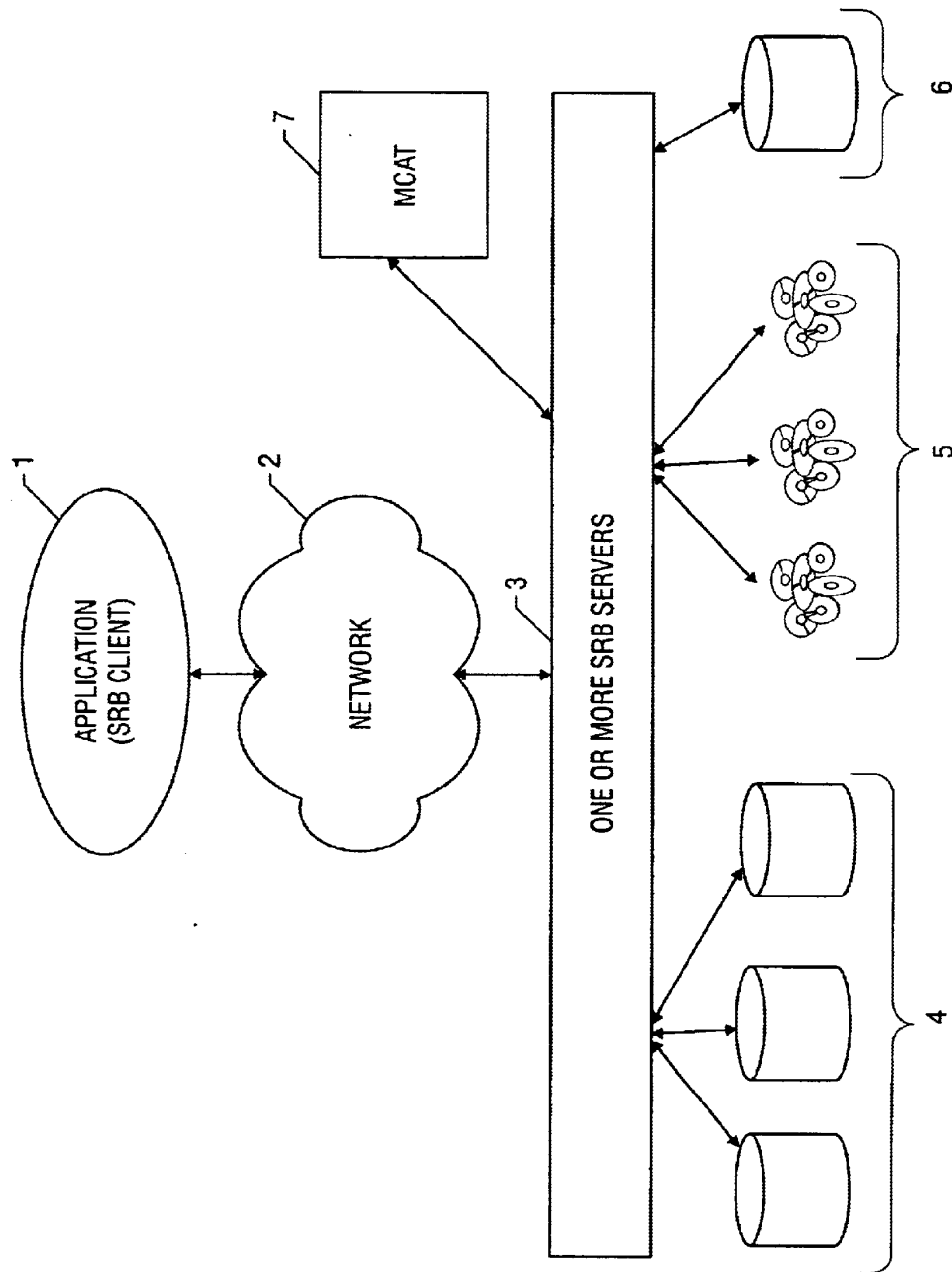


FIG. 1

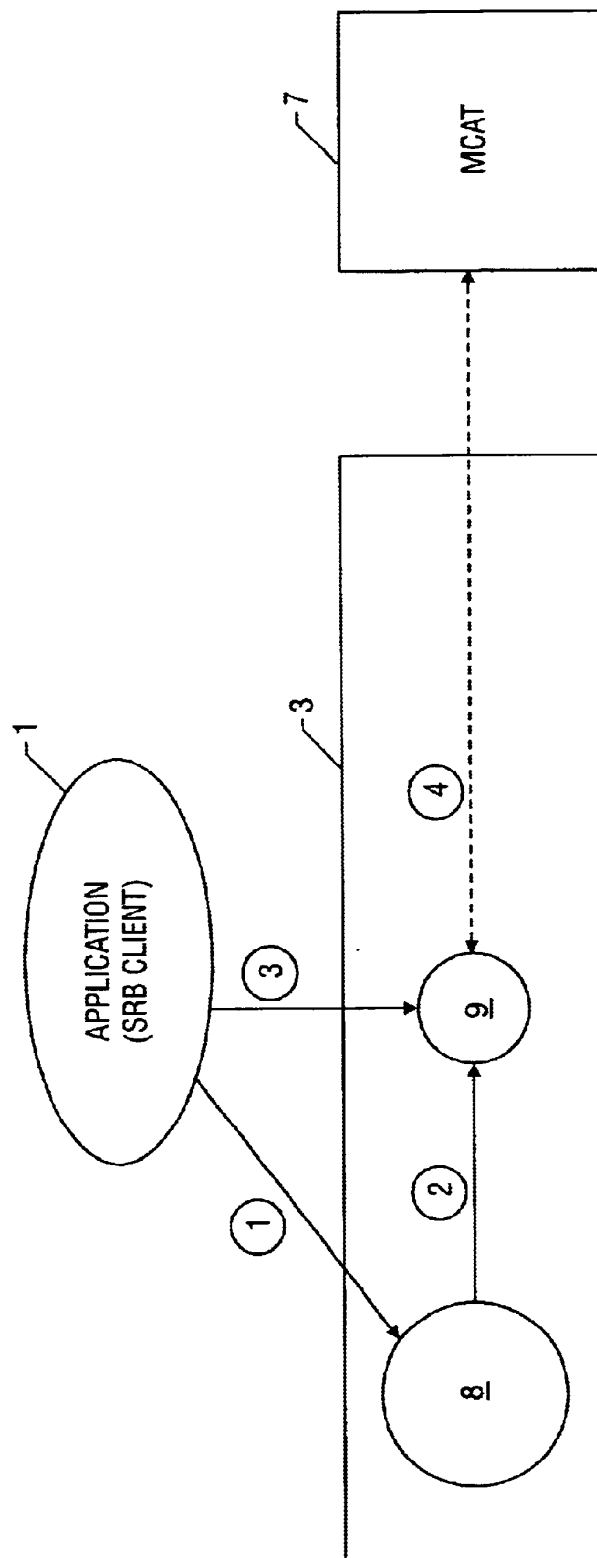


FIG. 2

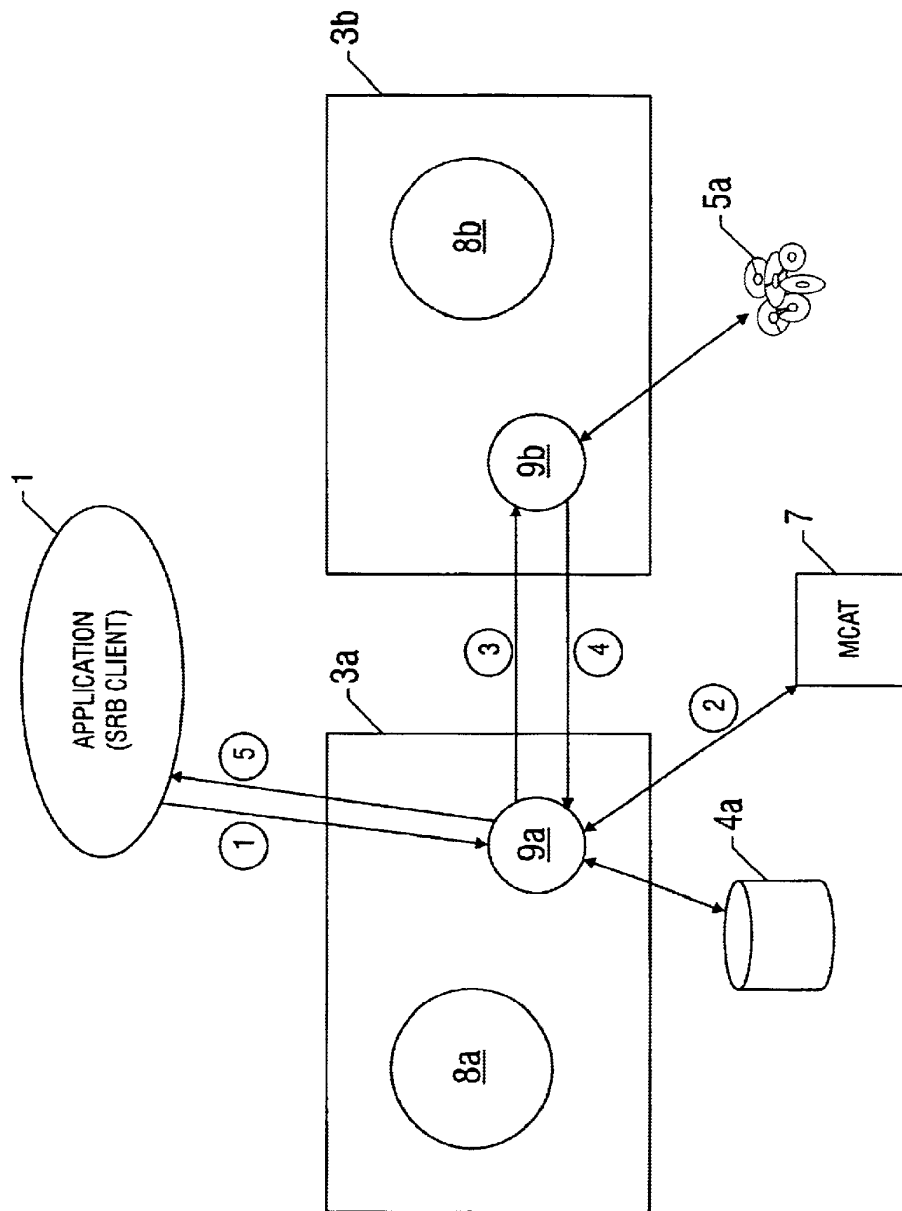


FIG. 3

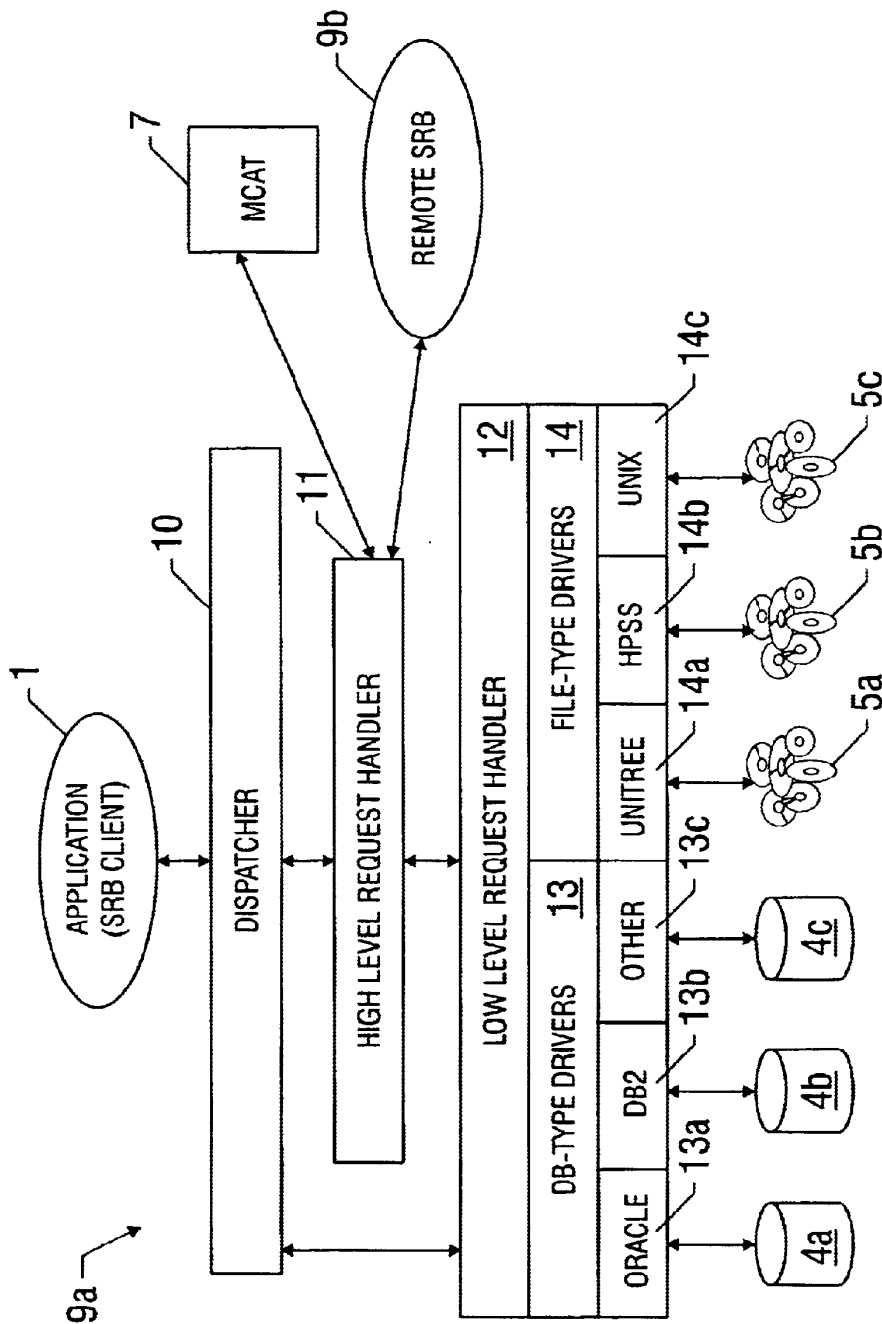


FIG. 4

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