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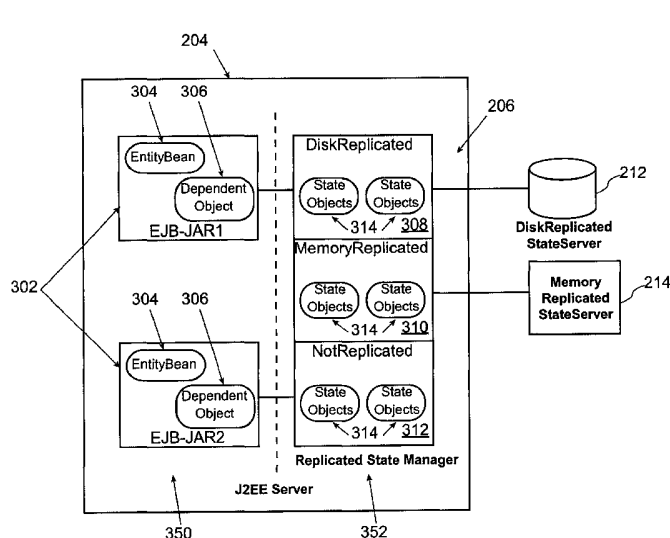
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(54) Title: METHOD AND APPARATUS FOR MANAGING REPLICATED AND MIGRATION CAPABLE SESSION STATE FOR A JAVA PLATFORM



(57) Abstract: An invention is disclosed managing the replicated and migration capable state for an enterprise Java bean (EJB) application. The invention includes executing a Java application on a server that includes an entity bean. In addition, a replicated state manager is executed that includes program instructions for managing an in-memory state of the Java application, and program instructions for replicating the in-memory state of the Java application to a replicated state server. The replicated state server can be a memory replicated state server, or a disk replicated state server. To facilitate application state management, embodiments of the present invention store states of the entity beans objects using state objects, which are updated in response to changes in the state of the application. Hence, the embodiments of the present invention define a logical separation between the application and the state objects.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/08849

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F9/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | <p>LITTLE M C ET AL: "Maintaining information about persistent replicated objects in a distributed system"</p> <p>PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING SYSTEMS. PITTSBURGH, MAY 25 - 28, 1993, LOS ALAMITOS, IEEE COMP. SOC. PRESS, US, vol. CONF. 13, 25 May 1993 (1993-05-25), pages 491-498, XP010095684</p> <p>ISBN: 0-8186-3770-6</p> <p>abstract</p> <p>paragraph [02.3]</p> <p>paragraph [03.2]</p> <p>---</p> <p>-/--</p> | 1-32 |



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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | <p>ORACLE CORPORATION: "Oracle 9i Application Server" TECHNICAL WHITEPAPER, [Online] November 2000 (2000-11), XP002244807 Retrieved from the Internet: <URL:http://technet.oracle.com/products/ias/pdf/9ias_102.pdf> [retrieved on 2003-06-17] page 17, line 21 -page 19, line 1 page 32, line 16 -page 35, line 6</p> <p>---</p> | 1-32 |
| A | <p>SALIL DESHPANDE: "Clustering: Transparent Replication, Load Balancing and Failover" WHITEPAPER, [Online] January 2000 (2000-01), XP002244805 Retrieved from the Internet: <URL:http://bdn.borland.com/article/images/26438/11501_r1.pdf> [retrieved on 2003-06-18] page 9, paragraph 6.3 -page 12, paragraph 6.5.4 page 13, paragraph 8 -page 15, paragraph 8.4</p> <p>---</p> | 1-32 |
| A | <p>SILVA L M ET AL: "Fault-tolerant execution of mobile agents" DEPENDABLE SYSTEMS AND NETWORKS, 2000. DSN 2000. PROCEEDINGS INTERNATIONAL CONFERENCE ON NEW YORK, NY, USA 25-28 JUNE 2000, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 25 June 2000 (2000-06-25), pages 135-143, XP010504324 ISBN: 0-7695-0707-7 paragraph [4.2.2] paragraph [4.3.3]</p> <p>-----</p> | 10,15, 20,28-32 |