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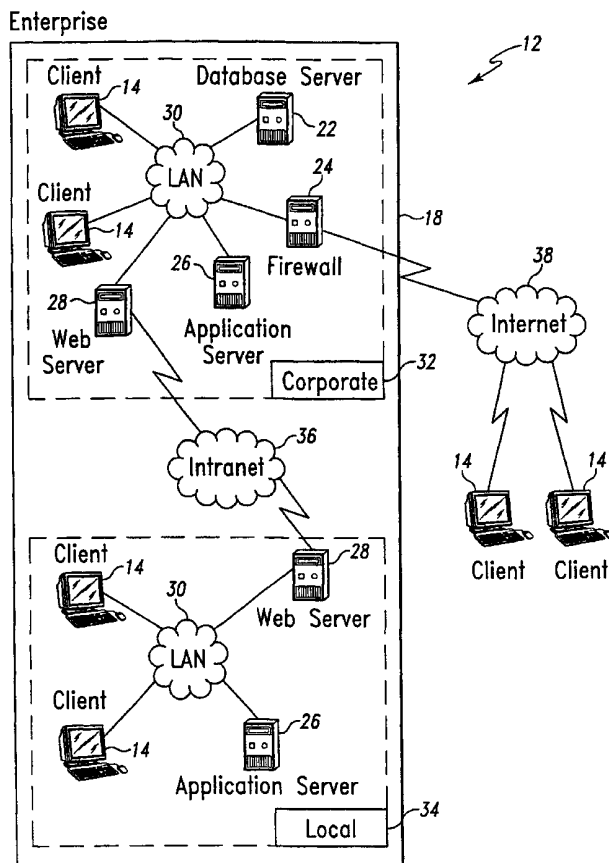
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(54) Title: DATA MANAGEMENT FOR NETCENTRIC COMPUTING SYSTEMS



(57) Abstract: A data management architecture for a netcentric computing system is disclosed by the present invention. The data management architecture includes a plurality of database servers that are in communication with a plurality of data stores to form a distributed data storage system. The distributed data storage system is operably configured within the network of the netcentric computing system to be accessed by a plurality of clients using web servers. The distributed data storage system may comprise a distributed by instance data storage system or a distributed by location data storage system. The data stores within the distributed data storage system each store a predetermined portion of the data for the netcentric computing system. The predetermined portion of the data that is within each of the data stores is determined using a plurality of data distribution strategies. The data distribution strategies provide different ways of segmenting and/or replicating the data to provide efficient and cost effective operation of the netcentric computing system.



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|---|---|---|
| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F17/30 | | |
| 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, IBM-TDB, WPI Data, INSPEC | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X A | US 5 924 096 A (DRAPER STEPHEN PW ET AL) 13 July 1999 (1999-07-13) abstract column 1, line 27 - line 53 column 2, line 57 - column 3, line 8 column 4, line 23 - line 31 --- -/-- | 1, 10, 14-17, 28, 36, 37 2, 29-31, 34, 35, 38-41 |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. | | |
| <input checked="" type="checkbox"/> Patent family members are listed in annex. | | |
| ° Special categories of cited documents : | | |
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| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer <p style="text-align: center;">Archontopoulos, E</p> | |

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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. |
| X A | <p>US 5 710 915 A (MCELHINEY JAMES DAVID) 20 January 1998 (1998-01-20)</p> <p>abstract column 2, line 32 - line 61 column 3, line 37 -column 4, line 2 column 5, line 18 - line 29 column 5, line 51 - line 64 column 7, line 49 - line 66</p> | <p>18-27</p> <p>3-6,8, 11-13</p> |
| A | <p>WO 98 54660 A (ERICSSON TELEFON AB L M) 3 December 1998 (1998-12-03)</p> <p>abstract page 1, line 21 - line 34 page 3, line 6 - line 14 page 3, line 37 -page 4, line 21 page 5, line 30 -page 6, line 3</p> | <p>1-6,8, 10-31, 34-41</p> |

INTERNATIONAL SEARCH REPORT

Information on patent family members

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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|--|--|
| US 5924096 A | 13-07-1999 | NONE | |
| US 5710915 A | 20-01-1998 | NONE | |
| WO 9854660 A | 03-12-1998 | AU 7683298 A SE 9702015 A US 6189017 B | 30-12-1998 29-11-1998 13-02-2001 |