Delavan Avenue, Austin, TX 78717 (US). BANDREDDI, Prasad; 9021 Evening Primrose Path, Austin, TX 78750 (US). YANG, Shaoxiang; 11215 Research Boulevard, Apt. 1119, Austin, TX 78759 (US).


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Title: TRANSPARENT EJBI SUPPORT AND HORIZONTAL DATA PARTITIONING

Abstract: The present invention relates to application development using a common object framework (COF). More particularly, aspects of the invention relate to adapting the COF to be substantially compliant with a standard-based server-side component model and remote method invocation protocol. Additional aspects of the invention relate to horizontal partitioning of databases at a middle, business application tier, above a database tier. Combinations including staging, change history, and internationalization of fields within objects are further aspects of this invention. Particular aspects of the present invention are described in the claims, specification and drawings.
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

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29 September 2005

Declaration under Rule 4.17:
— as to applicant’s entitlement to apply for and be granted a
   patent (Rule 4.17(ii)) for all designations

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

<table>
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<th>IPC(7)</th>
<th>G06F 9/44</th>
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<td>US CL</td>
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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)

U.S.: 717/105, 109, 130, 705/7, 707.10, 102, 103R, 709/200, 201, 202

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

USPAT; US-PGFUB; EPO; JPO; DERWENT; IBM-TDB

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

Please See Continuation Sheet.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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<tr>
<td>Y</td>
<td>US 2002/0104071 A1 (CHARISIUS et al) 01 August 2002 - fig. 20, page 14, para. 0157, page 16, para. 0175, fig. 30-35, page 21-22, para. 206-207. e.g. fig. 38A-F, 40-41 and 51-60.</td>
<td>1 - 40</td>
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<td>Y</td>
<td>US 2002/0194181 A1 (WACHTEL) 19 December 2002 - page 10, para. 0137.</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

**Date of the actual completion of the international search**

05 May 2004 (05.05.2004)

**Date of mailing of the international search report**

07 JUL 2003

**Name and mailing address of the ISA/US**

Mail Stop PCT, Attn: ISA/US Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

FAX No. (703) 305-3330

**Authorized officer**

Vincent Trang

**Telephone No.** 703-305-3900

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## INTERNATIONAL SEARCH REPORT

### C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>Y</td>
<td>US 2003/0212987 A1 (DEMUTH et al) 13 November 2003 - page 2, para. 0016, fig. 4; page 2-3, para. 0020-027.</td>
<td>28, 41 &amp; 42</td>
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<td>Y</td>
<td>US 6,067,548 A (CHENG) 23 May 2000 - fig 8, col. 18, lines 38-58, col. 3 lines 7-11, col. 6, line 40, col. 7, line 14, fig. 3-5, col. 7 lines 54-67, col. 9, line 16 to col. 10, line 20, fig. 3-4, col. 17 lines 6 to col. 18, line 58.</td>
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, 03). | 1 - 46 |

Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:
rational rose, uml modeling database, interface server, generate$4 creat$4 near$4 interface, container common object framework, model beans, local remote buffer$5, partition$5 near$5, horizontal$4.