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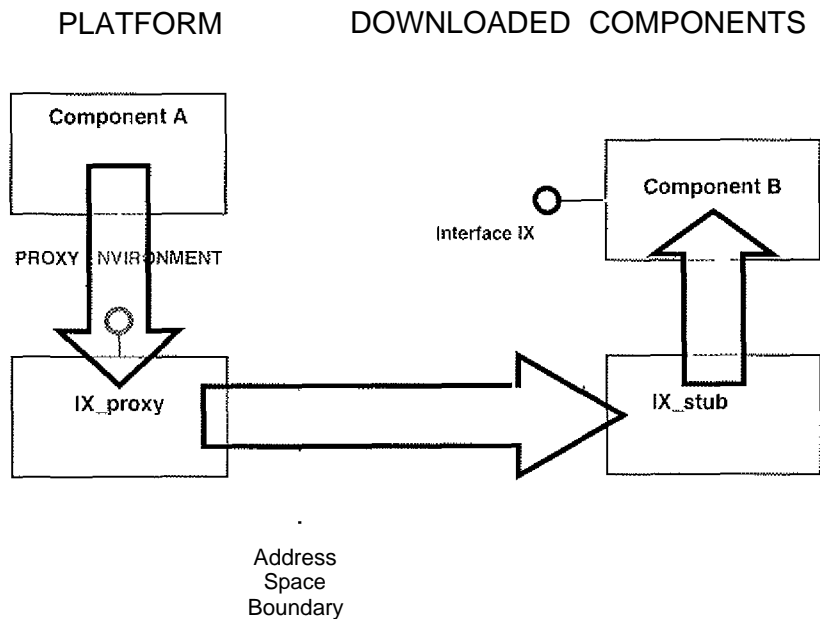
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(54) **Title:** INJECTING PROXY COMPONENTS USING BLUEPRINTS



(57) **Abstract:** A software component deployed in a distributed system includes a stub that enables the component to be used remotely. The stub can include its own proxy (or at least a sufficient description of it) that is automatically and dynamically injected to the remote environment. Thus, native proxies do not need to be included in the platform initially, and do not need to be downloaded, since marshalling methods are generated at runtime based on a blueprint in the code of the application.

WO 2008/031754 A3

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP 2007/059333

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. G06F9/54

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)  
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, INSPEC, COMPENDEX

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication where appropriate of the relevant passages	Relevant to claim No
X	US 6 993 774 B1 (GLASS GRAHAM W [US]) 31 January 2006 (2006-01-31) column 5, line 53 - column 6, line 6; figures 1, 3, 5-7 column 6, line 23 - line 39 column 7, line 6 - line 19 column 8, line 30 - line 40 column 8, line 58 - column 9, line 11 column 12, line 6 - line 21 column 12, line 44 - column 13, line 17 column 13, line 34 - line 56 <p style="text-align: center;">----- -/--</p>	1-29

Further documents are listed in the continuation of Box C

See patent family annex

\* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2007/059333

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LI J ET AL: "Enabling .rapid feature deployment on embedded platforms with JeCOM bridge"</p> <p>ON THE MOVE TO MEANINGFUL INTERNET SYSTEMS 2004: COOPIS, DOA, AND ODBASE. OTM CONFEDERATED INTERNATIONAL CONFERENCES COOPIS, DOA, AND ODBASE 2004. PROCEEDINGS, PART II (LECTURE NOTES IN COMPUTER SCIENCE VOL. 3291) SPRINGER-VERLAG BERLIN, GERMANY, 25 October 2004 (2004-10-25), pages 1482-1501, XP002428438</p> <p>ISBN: 3-540-23662-7</p> <p>abstract</p> <p>page 1484, line 13 - line 37; figure 1</p> <p>page 1485, line 12 - line 14</p> <p>page 1488, line 5 - line 24</p> <p>page 1491, line 36 - page 1492, line 19</p> <p>page 1496, line 15 - line 34</p> <p>-----</p>	1-29
X	<p>CORSARO A ET AL: "A C++ native interface for interpreted JVMs"</p> <p>ON THE MOVE TO MEANINGFUL INTERNET SYSTEMS 2003: OTM 2003 WORKSHOPS. OTM CONFEDERATED INTERNATIONAL WORKSHOPS HCI-SWWA, IPW, JTRES, WORM, WMS, AND WRSM 2003. PROCEEDINGS. (LECTURE NOTES IN COMPUT. SCI. VOL. 2889) SPRINGER - VERLAG BERLIN, GERMANY, 3 November 2003 (2003-11-03), pages 564-577, XP002428439</p> <p>ISBN: 3-540-20494-6</p> <p>page 565, line 20 - line 30; figure 2</p> <p>page 568, line 24 - page 569, line 9</p> <p>page 571, line 3 - page 572, line 1</p> <p>page 574, line 17 - line 33</p> <p>-----</p>	1-29
X	<p>EP 1 420 340 A (HEWLETT PACKARD CO [US])</p> <p>19 May 2004 (2004-05-19)</p> <p>paragraph [0045] - paragraph [0047];</p> <p>figure 2</p> <p>paragraph [0060] - paragraph [0061]</p> <p>-----</p>	1-29
A	<p>WOLLRATH A ET AL: "A DISTRIBUTED OBJECT MODEL FOR THE JAVA(TM) SYSTEM"</p> <p>CONFERENCE ON OBJECT-ORIENTED TECHNOLOGIES, XX, XX,</p> <p>17 June 1996 (1996-06-17), pages 219-231, XP000997457</p> <p>page 221, left-hand column, line 14 - line 26</p> <p>page 225, left-hand column, line 33 - right-hand column, line 31</p> <p>page 226, left-hand column, line 28 - right-hand column, line 11</p> <p>page 228, left-hand column, line 21 - right-hand column, line 26</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1-29

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2007/059333

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>ANONYMOUS: "Accessing Java objects from COM"</p> <p>J-INTEGRA FOR COM DOCUMENTATION, [Online] 20 December 2005 (2005-12-20), pages 1-10, XP002428441</p> <p>Retrieved from the Internet: URL :http://web.archive.org/web/20051220231202/http://j-integra.intrinsyc.com/support/com/doc/javafromcom/index.html&gt; [retrieved on 2007-04-05] the whole document</p> <p style="text-align: center;">-----</p>	1-29
A	<p>ANONYMOUS: "J-Integra for COM Documentation - Version 2.3 - Introduction"</p> <p>J-INTEGRA DOCUMENTATION, [Online] 2 August 2005 (2005-08-02), pages 1-2, XP002428440</p> <p>Retrieved from the Internet: URL :http://web.archive.org/web/20050802093713/http://j-integra.intrinsyc.com/support/com/doc/intro.html &gt; [retrieved on 2007-04-05] the whole document</p> <p style="text-align: center;">-----</p>	1-29

# 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 6993774	B1	31-01-2006	NONE	
EP 1420340	A	19-05-2004	US 2004158843 A1	12-08-2004