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*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: WEB SERVICES APPARATUS AND METHODS

(57) Abstract: A method for use in a Web Services system having complex UDDI object(s) having at least one non-compound data structure and at least one compound data structures, each compound data structure having at least one value, each value having a plurality of fields. The method provides in a Directory parent object, an attribute representing each non-compound data structure and provides for each at least one value, a Directory child object having an attribute representing each field of compound data structure.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/26525

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F9/44

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, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>OBJECT MANAGEMENT GROUP: "The Common Object Request Broker: Architecture and Specifications, 'Online! no. Revision 2.0, July 1995 (1995-07), - July 1996 (1996-07) XP002308138 Retrieved from the Internet: URL: http://www.omg.org/cgi-bin/apps/doc?formal/97-02-25.ps pages 12-4, paragraph 12.3 - pages 12-14, last line</p>	1-3,5-7
X	<p>WO 02/03245 A (OTOUBE ; QUEREL LAURENT (FR); FONTVIELLE LAURENT (FR); SAIM HADDACHE B) 10 January 2002 (2002-01-10) page 2, line 30 - line 33 page 3, line 12 - page 4, line 20 page 11, line 7 - last line claims 1,2</p>	1-3,5-7

Further documents are listed in the continuation of box C.

Patent family members are listed in 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
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *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.
- *Z* document member of the same patent family

Date of the actual completion of the international search

29 November 2004

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09/12/2004

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/26525

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 4, 8
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 4,8

As no concrete functionality is derivable from the wording of claims 4 and 8 beyond the mere reference to flattening of an abstract hierarchy, and there is a complete lack of concrete technical features to flatten such a hierarchy, the International Search Authority finds it impossible to determine the matter for which protection is sought. This conclusion remains even when the claims are interpreted in the light of the description. The present invention fails to comply with the clarity requirement of PCT Article 6 (see also PCT Rule 6.3) to such an extent that a meaningful search of claims 4 and 8 is not possible (see also Guidelines for examination in the European Patent Office, B-VIII, in particular section 3). Consequently, no search report can be established for the claims 4 and 8 of the present application.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/26525

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0203245	A	10-01-2002	WO 0203245 A1	10-01-2002
			AU 6165600 A	14-01-2002
