(54) Title: COMPUTER SYSTEMS AND METHODS FOR THE QUERY AND VISUALIZATION OF MULTIDIMENSIONAL DATABASES

(57) Abstract: A method and system for producing graphics. A hierarchical structure of a database (548) is determined. A visual table (550), comprising a plurality of panes (557), is constructed by providing a specification that is in a language based on the hierarchical structure of the database. In some cases, this language can include fields that are in the database schema (560). The database is queried to retrieve a set of tuples in accordance with the specification. A subset of the set of tuples is associated with a pane in the plurality of panes.
Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 23 March 2006

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**

**International application No.**

PCT/US04/18217

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : Go6F 17/30; G06T 11/20
US CL : 707/101, 104; 345/440; 702/189

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. : 707/101, 104; 345/440; 702/189

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 practicable, search terms used)

IEEE, ACM, WEST

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**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>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 6,100,901 A (MOHDA et al.) 8 August 2000, see entire document</td>
<td>1-136</td>
</tr>
</tbody>
</table>

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Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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

03 September 2005 (03.09.2005)

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

07 FEB 2006

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