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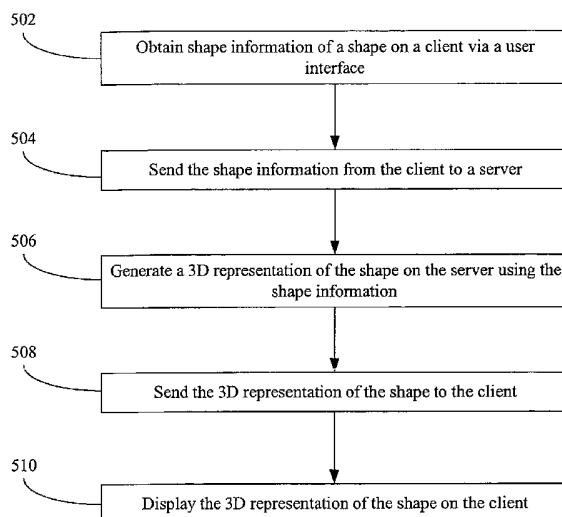
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(54) Title: SYSTEMS AND METHODS FOR COLLABORATIVE SHAPE DESIGN



(57) Abstract: One embodiment of the present invention provides a computer-implemented method for collaborative shape design in a web-based system having a client (104) and a server (106). In this embodiment, the method includes obtaining shape information of shape on the client (502) via a user interface, sending the shape information from the client to the server (504), generating a three-dimensional representation of the shape on the server using the shape information (506), sending the three-dimensional representation of the shape to the client (508), and displaying the three-dimensional representation of the shape on the client (510). In one embodiment, the method further includes modifying the three-dimensional representation of the shape on the client (706), and sending the modified three-dimensional representation of the shape to the server (708).

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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

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06T 17/00
US CL : 345/419, 420

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. : 345/418, 419, 420, 427, 619, 700

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

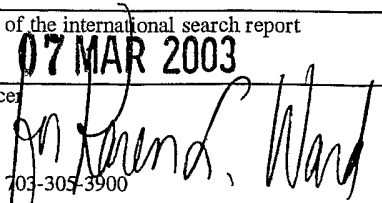
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,111,582 A (JENKINS) 29 August 2000, All	1-54
X, P	US 6,331,858 B2 (FISHER) 18 December 2001, col.3, line 15 through col.6, line 25.	1-54

Further documents are listed in the continuation of Box C. See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>
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<p>Date of the actual completion of the international search</p> <p>04 February 2003 (04.02.2003)</p>	<p>Date of mailing of the international search report</p> <p style="text-align: center; font-size: 1.2em;">07 MAR 2003</p>
<p>Name and mailing address of the ISA/US</p> <p style="font-size: 0.8em;">Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231</p> <p>Facsimile No. (703)305-3230</p>	<p>Authorized office:</p> <p style="font-size: 0.8em;">CLIFF N VO</p> <p>Telephone No. 703-305-3900</p> <div style="text-align: right; font-family: cursive; font-size: 1.5em; margin-top: 10px;">  </div>