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(54) Title: APPARATUS AND METHOD FOR TRUNCATING POLYHEDRA

(57) Abstract: An apparatus for creating truncated polyhedra without using complex formulas and without requiring advanced computer processors and computer memory according to one embodiment includes at least one processor, means for inputting vertex data to the processor, a display in data communication with the processor, and computer memory coupled to the processor. The computer memory has recorded within it machine readable instructions for storing vertex data previously input to the processor, truncating a polyhedron created using the vertex data, and actuating the display. The instructions for truncating a polyhedron utilize length data and angle data for triangles formed from the vertex data.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/057238

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06T17/20

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)
G06T

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 396 494 B1 (PITTET JEAN-JACQUES [CH]) 28 May 2002 (2002-05-28) abstract; figures 4-6	1-17
A	US 5 113 490 A (WINGET JAMES M [US]) 12 May 1992 (1992-05-12) abstract; figures 1-3,13a-14	1-17

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

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- *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

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INTERNATIONAL SEARCH REPORT

International application No.
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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.:
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:

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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

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

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.:

1-17

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-17

apparatus for creating a truncated polyhedron

2. claims: 18-20

apparatus for determining properties of polyhedra

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/057238

Patent document cited in search report	Publication (date)	Patent family member(s)	Publication date
US 6396494	B1	28-05-2002	NONE
US 5113490	A	12-05-1992	NONE