REAL TIME THREE-DIMENSIONAL MULTIPLE DISPLAY IMAGING SYSTEM

A real time three dimensional multiple display imaging system has a central processing node and a plurality of remote, virtual camera processors. Each of the virtual cameras has its own predetermined viewpoint (568) and is capable of displaying a scene into a virtual world (556, 558, 560) from that viewpoint. The virtual world and the objects displayed in it are controlled by the central processing node. Geometric and textural data (562, 564, 566) concerning the objects are stored in advance by memories associated with each one of the virtual cameras, thereby reducing the amount of communication bandwidth necessary for real-time animation.
Published: with international search report

(88) Date of publication of the international search report:
8 May 2003

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

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : G06T 15/10
   US CL. : 345/427, 419, 473,474

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. : 345/427, 419, 473,474

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)
Please See Continuation Sheet

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 6,072,478 A (KURIHARA et al.) 06 June 2000 (06.06.2000), col. 18, lines 47-60, col. 19, lines 34-64, col. 11, lines 41-64, col. 9, lines 39-54, col. 10, lines 39-50, col. 17, lines 6-32, col. 20, line 27-col. 21, line 10, col. 23, line 39-col. 24, line 15, col. 26, lines 5-48.</td>
<td>1-75</td>
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<tr>
<td>Y</td>
<td>US 5,564,000 A (HALPERN) 18 October 1996 (08.10.1996)</td>
<td>1-75</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,256,061 A (MARTIN et al.) 03 July 2001 (03.07.2001)</td>
<td>1-75</td>
</tr>
</tbody>
</table>

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

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"A" document member of the same patent family

Date of the actual completion of the international search
09 October 2002 (09.10.2002)

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20 Feb 2003

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Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:
BRS search term: render image, multiple display unit, camera, viewpoint, sequencing instruction, virtual scene, convergent, divergent