Title: HUMAN-COMPUTER INTERFACES INCORPORATING HAPTICS AND PATH-BASED INTERACTION

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : C09G 5/00
US Cl. : 345/678, 701, 861
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. : 345/157, 158, 652, 663, 678, 701, 702, 859, 860, 861; 463/3, 23, 30; 273/317.1, 317.2; 473/221, 219

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>X</td>
<td>US 6,219,032 B1 (Rosenberg et al.) 17 April 2001, column 2, line 53 - column 3, line 17; column 3, lines 37-49; column 14, lines 1-9; column 30, line 51 - column 32, line 7; column 38, line 38 - column 39, line 9; column 40, line 21 - column 43, line 57; column 44, line 50 - column 45, line 21; column 45, line 61 - column 46, line 29; column 52, lines 54-59; column 56, line 60 - column 57, line 17; column 57, line 30 - column 58, line 8; and column 59, line 49 - column 60, line 62.</td>
<td>1-8, 11-14, 19-30, 33-43, and 45-50</td>
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<tr>
<td>Y</td>
<td>US 5,655,093 A (Frid-Nielsen) 5 August 1997, column 8, lines 29-48.</td>
<td>9-10, 15-18, 31-32, and 44</td>
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<td>Y</td>
<td>US 6,219,032 B1 (Rosenberg et al.) 17 April 2001, column 2, line 53 - column 3, line 17; column 3, lines 37-49; column 14, lines 1-9; column 30, line 51 - column 32, line 7; column 38, line 38 - column 39, line 9; column 40, line 21 - column 43, line 57; column 44, line 50 - column 45, line 21; column 45, line 61 - column 46, line 29; column 52, lines 54-59; column 56, line 60 - column 57, line 17; column 57, line 30 - column 58, line 8; and column 59, line 49 - column 60, line 62.</td>
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<tr>
<td>Y</td>
<td>US 6,191,785 B1 (Bertram et al.) 20 February 2001, column 1, line 19 - column 2, line 13; and figure 3.</td>
<td>9</td>
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<td>Y</td>
<td>US 6,433,775 B1 (Gould et al.) 13 August 2002, column 6, lines 40-67; column 8, lines 26-37; column 15, line 61 - column 16, line 13; and column 16, lines 36-49.</td>
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<td>Y, P</td>
<td>US 6,552,722 B1 (Shih et al.) 22 April 2003, column 1, line 61 - column 2, line 9; column 8, line 21 - column 9, line 23; and column 37, line 15 - column 38, line 11.</td>
<td>15</td>
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<td>Y</td>
<td>US 6,220,963 B1 (Meredith) 24 Apr. 2001, column 2, lines 6-13; and column 5, lines 16-30.</td>
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<td>Y</td>
<td>US 6,277,030 B1 (Boynton et al.) 21 August 2001, column 3, lines 17-52.</td>
<td>31</td>
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Date of the actual completion of the international search
07 September 2004 (07.09.2004)

Date of mailing of the international search report
80 SEP 2004

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### C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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<tr>
<td>Y</td>
<td>US 6,219,033 B1 (Rosenberg et al.) 17 April 2001, column 45, lines 1-7.</td>
<td>44</td>
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</table>

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