A KEYPAD WHEREIN EACH KEY IS ASSOCIATED WITH A PRIMARY INPUT AND PLURAL SECONDARY INPUTS

A keypad (100) and method for detecting the selection of one of a plurality of key inputs associated with a single key (102) is provide. The keypad (100) includes one or more keys (102) having a primary input selection and three or more secondary input selections. Each secondary input selection has a corresponding switch, where if only one of the switches is engaged when the key (102) is actuated, the corresponding secondary input selection is indicated. If any combination of a plurality of switches are engaged, when the key (102) is actuated, the primary input selection is indicated.
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
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9 November 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/US05/03430

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC:**
- G09G 5/00 (2006.01)
- G06F 3/00 (2006.01), 13/00 (2006.01)

**USPC:** 345/172,708/144

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)


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 6,541,715 B2 (SWANSON) 01 April 2003 (01.04.2003), figures 1-4, column 2, line 56 - column 5, line 24.</td>
<td>1-3, 5-8, 11, 15-20</td>
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<td>Y</td>
<td>US 6,356,258 B1 (KATO et al) 12 March 2002 (12.03.2002), figures 1, 3, and 5, column 1, lines 30-37, column 6, lines 4-15, column 14, lines 35-42, column 16, lines 30-36, column 17, lines 39-58, column 18, line 64 - column 19, line 10, and column 31, lines 3-11.</td>
<td>4, 9, 10, 12-14, 21, 22</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,852,41A A (YU et al) 22 December 1998 (22.12.1998), figure 2, column 1, line 25 - column 2, line 14.</td>
<td>12-14</td>
</tr>
</tbody>
</table>

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

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

08 June 2006 (08.06.2006)

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

31 JUL 2006

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of Item 4 of the first sheet:
A KEYPAD WHEREIN EACH KEY IS ASSOCIATED WITH A PRIMARY INPUT AND PLURAL SECONDARY INPUTS

Continuation of B. FIELDS SEARCHED Item 3:
EAST

search terms: keypad, keyboard, multifunction, numeric, alphabetic, triangle, telephone, simultaneous