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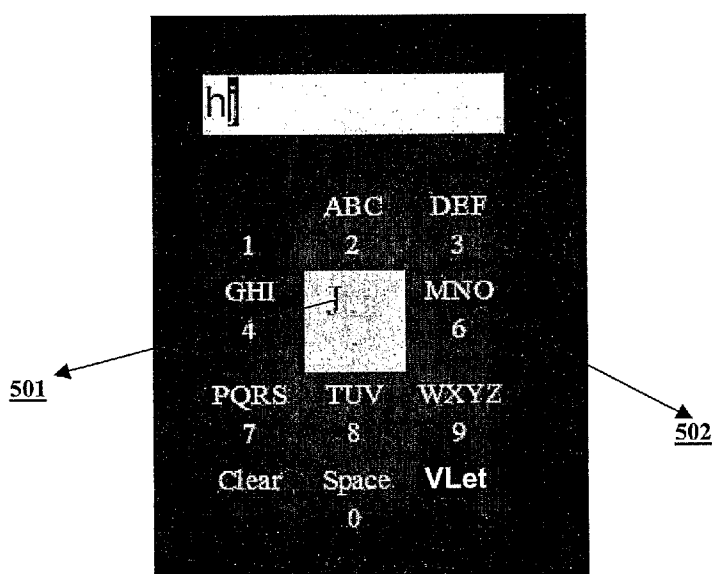
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[Continued on next page]

(54) Title: USER INTERFACE FOR VISUAL COOPERATION BETWEEN TEXT INPUT AND DISPLAY DEVICE



(57) Abstract: A user-interface system for entering an alphanumeric string or alphanumeric clusters for identifying information content is presented. The user-interface system has presentation logic for displaying an image of a virtual user alphanumeric interface on a presentation device. The virtual user alphanumeric interface includes an image of an overloaded keypad that has a two dimensional configuration of alphanumeric clusters. Each cluster corresponds to a set of alphanumeric characters. The user-interface system also has cluster selection logic for receiving user actions from an input device (e.g., five-button interface) to provide visual cues to help the user select an alphanumeric cluster and to cause the selected alphanumeric cluster or character from a cluster to be displayed in a display field of the virtual user alphanumeric interface.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC: 715/816

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)

IPC(8): G06F 3/048 (2007.01)

USPC: 715/816

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 345/168, 169; 715/700, 773 (text search)

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

EAST(USPT,PGPB,EPO,JPO,DERWENT); DialogPRO(Engineering); Google

Search terms: on screen, virtual, graphical, keyboard, keypad, text, character, alphanumeric, pad, display, present, GUI view, user, operator, person, input, selection, enter, entry, typed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X | US 2003/0011573 A1 (VILLET et al.) 16 January 2003 (16.01.2003); fig 1-8; para [0031]-[0088], [0105], [0112] | 1-23 |
| A | US 2004/0046744 A1 (RAFII et al.) 11 March 2004 (11.03.2004), fig 1c, 1d; para [0028], [0029], [0045]-[0048] | 1, 9, 10, 13, 21 |
| A | US 6,266,048 B1 (CARAU, SR.) 24 July 2001 (24.07.2001), abstract; fig 1; col 1-2 | 1, 9, 10, 13, 21 |

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