

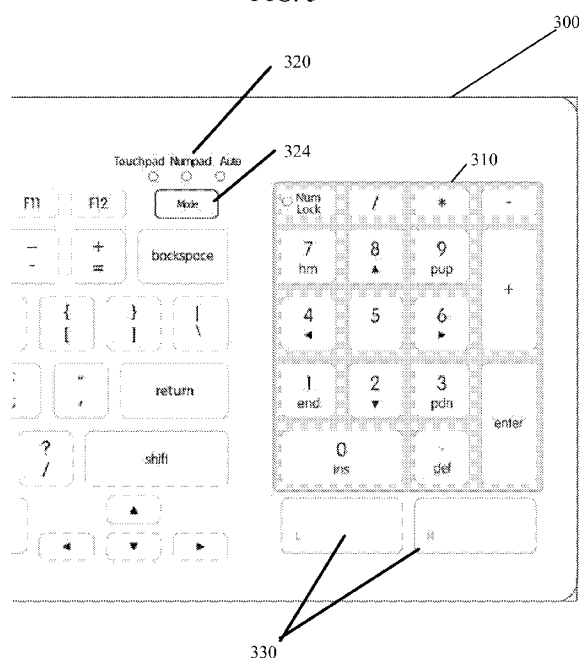


- (51) **International Patent Classification:**
G06F 3/01 (2006.01) **G06F 3/041** (2006.01)
G06F 3/02 (2006.01)
- (21) **International Application Number:**
PCT/US2011/062723
- (22) **International Filing Date:**
30 November 2011 (30.11.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/418,279 30 November 2010 (30.11.2010) US
61/472,799 7 April 2011 (07.04.2011) US
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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) **Title:** MULTIPLEXED NUMERIC KEYPAD AND TOUCHPAD

FIG. 3



(57) **Abstract:** A method and system that integrates a numeric keypad with a touchpad in the same physical location on a touch-sensitive display device. Operational mode of the same location is automatically determined based on user actions with the display or based on a manual entry by the user. The system operates in at least one mode of operation selected from: numpad mode, touchpad mode, keyboard mode and auto-detect mode. A visual indicator communicates with the user which mode is the current mode.

**Published:****(88) Date of publication of the international search report:**

27 September 2012

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/062723**A. CLASSIFICATION OF SUBJECT MATTER****G06F 3/01(2006.01)i, G06F 3/02(2006.01)i, G06F 3/041(2006.01)i**

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)

G06F 3/01; G06F 3/048; G06F 3/02; G02F 1/13; G08C 21/00; G09G 5/00; G06F 3/041

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: touchpad, number key pad, keyboard, touch/motion sensor, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2008-0225006 A1 (ENNADI ABDERRAHIM) 18 September 2008 See paragraphs [0001]–[0028]; and figures 1–2.	1–5, 10–15, 20
Y	US 2003-0122784 A1 (MARK SHKOLNIKOV) 03 July 2003 See paragraphs [0040]–[0048]; and figures 1–4.	1–5, 10–15, 20
Y	US 2007-0091070 A1 (MICROSOFT CORPORATION) 26 April 2007 See abstract; paragraphs [0010]–[0034]; and figures 1–4.	5, 15
A	US 04725694A A (AUER; CAROL M. et al.) 16 February 1988 See column 1, line 36 – column 4, line 2; and figures 3–5.	1–20
A	US 2005-0122313 A1 (MICHAEL ASHBY) 09 June 2005 See paragraphs [0042]–[0055]; and figures 1–4.	1–20
A	KR 10-2010-0029026 A (MITAKE INFORMATION CORPORATION) 15 March 2010 See abstract; paragraphs [0001]–[0014]; and figures 1–10.	1–20

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

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"O" document referring to an oral disclosure, use, exhibition or other means

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Date of the actual completion of the international search

19 JULY 2012 (19.07.2012)

Date of mailing of the international search report

20 JULY 2012 (20.07.2012)

Name and mailing address of the ISA/KR

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Facsimile No. 82-42-472-7140

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Telephone No. 82-42-481-8514



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/062723

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