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[Continued on next page]

(54) **Title:** DYNAMICALLY LOCATED ONSCREEN KEYBOARD

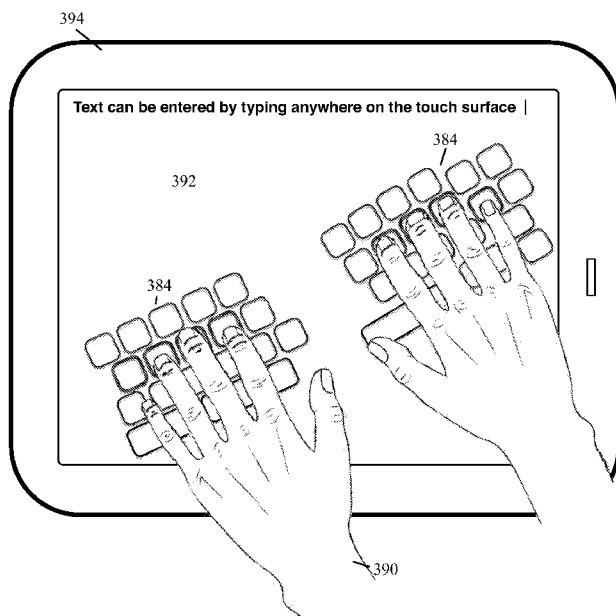


FIG. 3C.

(57) **Abstract:** A touch-sensitive display surface having touch-capacitive and vibration sensors. This surface allows the user to rest their fingers on the keys of an onscreen keyboard and type as they would on a regular keyboard. As the user places their fingers on the touch screen, the system relocates the onscreen keyboard to the location where the fingers are resting. The touch sensors report the signal strength level of each key touched to a processor, but no keystroke is issued by the processor until a corresponding "tap" (i.e., vibration) is detected. When a tap is detected, the processor references the status of the touch capacitance sensors before, during, and/or immediately after the moment in time the tap occurred. The size, position, and orientation of the onscreen keyboard keys are dynamically set as determined by the user initiating a home-row definition event by resting their fingers momentarily on a virtual home-row.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/062721**A. CLASSIFICATION OF SUBJECT MATTER****G06F 3/02(2006.01)i, G06F 3/041(2006.01)i, G06F 3/14(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 3/02; 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: touch screen, keyboard, display

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0237359 A1 (KIM BO-MI et al.) 24 September 2009 See paragraphs [0035]–[0048], claims 13–19, and figures 1–2, 9	1–2, 13–14, 15–16, 18, 21
A	US 2009-0073128 A1 (MARSDEN RANDAL J.) 19 March 2009 See paragraphs [0033]–[0039], claims 1–37, and figures 1–2	1–22
A	US 2010-0194692 A1 (ORR KEVIN et al.) 05 August 2010 See paragraphs [0035]–[0055], claims 1–21, and figures 1–2	1–22
A	US 7768501 B1 (MADDALOZZO, JR. JOHN et al.) 03 August 2010 See claims 8–21 and figures 1–6	1–22

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

* Special categories of cited documents:

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"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"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

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2010-0194692 A1	05.08.2010	US 2010-0194682 A1	05.08.2010
US 7768501 B1	03.08.2010	None	