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(12) United States Patent

Shinozaki et al.

(54) LOAD REQUIRED TO CANCEL AN INPUT ON A TOUCH SENSOR IS ADJUSTED WHEN THE SLIDE OF A TOUCH OBJECT IS DETECTED

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(52) U.S. Cl.

CPC *G06F 3/0486* (2013.01); *G06F 3/0414* (2013.01); *G06F 3/0416* (2013.01)

(58) Field of Classification Search

None

See application file for complete search history.

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(56) References Cited

U.S. PATENT DOCUMENTS

2002/0015064	A1*	2/2002	Robotham et al 345/863
2004/0021643	A1*	2/2004	Hoshino et al 345/173
2010/0057235	A1*	3/2010	Wang et al 700/94

FOREIGN PATENT DOCUMENTS

CN 1845043 A 10/2006 JP 2000-200147 A 7/2000 JP 2004070492 A * 3/2004

(Continued)
OTHER PUBLICATIONS

An Office Action; "Decision of Rejection," issued by the Japanese Patent Office on Nov. 12, 2013, which corresponds to Japanese Patent Application No. 2012-505475 and is related to U.S. Appl. No. 13/635,829; with English concise explanation.

(Continued)

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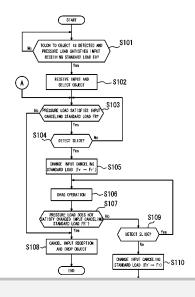
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(57) ABSTRACT

An electronic device for receiving an input based on a pressure load that reduces a risk of ending a drag operation despite a user's intention is provided.

The electronic device includes a touch sensor configured to detect a touch by a touch object, a load detection unit configured to detect a pressure load on a touch face of the touch sensor, and a control unit configured to enter or cancel an input receiving state for receiving an input based on the pressure load detected by the load detection unit. The control unit, in the input receiving state, controls to make a standard load for canceling the input receiving state when a slide of the touch object touching the touch face is detected and a standard load for canceling the input receiving state when the slide of the touch object touching the touch face is not detected different from each other.

4 Claims, 9 Drawing Sheets





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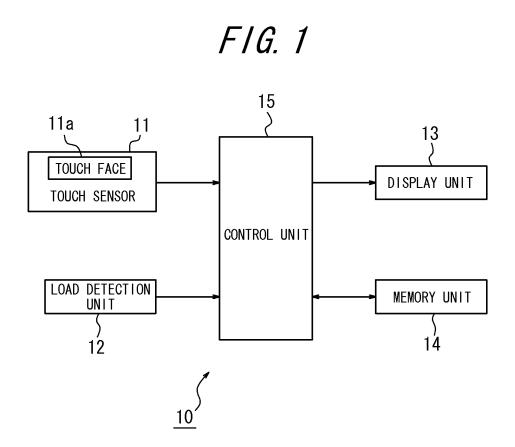
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(56)	References Cited	Japanese Patent Application No. 2012-505475 and is related to U.S. Appl. No. 13/635,829; with Concise Explanation.
FOREIGN PATENT DOCUMENTS		International Search Report; PCT/JP2011/001077; Apr. 12, 2011. An Office Action; "Notification of the First Office Action." issued by
JP JP JP JP	2005-196810 A 7/2005 2006-039745 A 2/2006 2006-311224 A 11/2006 2007080110 A * 3/2007 OTHER PUBLICATIONS	the State Intellectual Property Office of China on Sep. 25, 2014, which corresponds to Chinese Patent Application No. 201180014549.0 and is related to U.S. Appl. No. 13/635,829; with English translation.

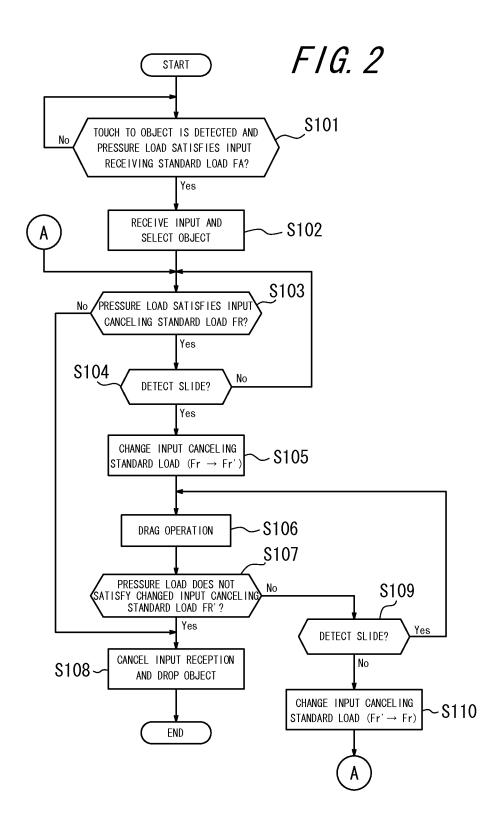
An Office Action: "Notice of Reasons for Rejection," issued by the Japanese Patent Office on Aug. 13, 2013, which corresponds to

* cited by examiner

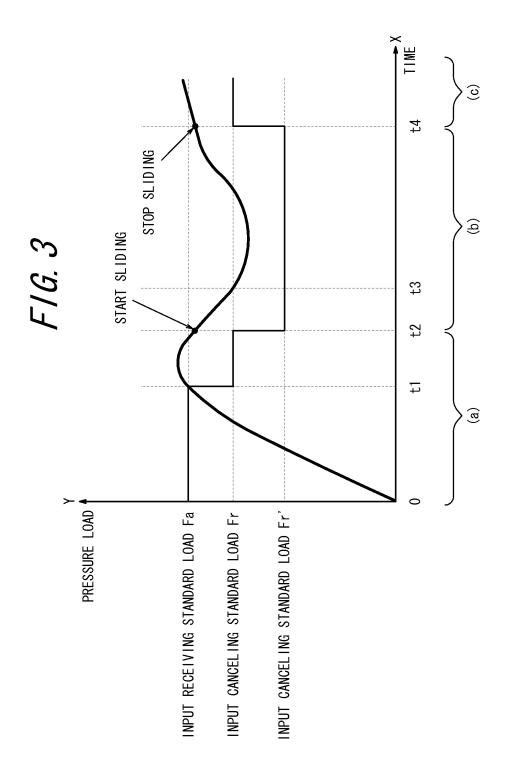














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