US009128583B2

(12) **United States Patent**
Sirpal et al.

(10) **Patent No.: US 9,128,583 B2**
(45) **Date of Patent: *Sep. 8, 2015**

(54) **FOCUS CHANGES DUE TO GRAVITY DROP**

(75) Inventors: **Sanjiv Sirpal**, Oakville (CA); **Martin Gimpl**, Helsinki (FI)

(73) Assignee: **Z124**, George Town (KY)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 173 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/248,496**

(22) Filed: **Sep. 29, 2011**

(65) **Prior Publication Data**

US 2012/0081401 A1 Apr. 5, 2012

Related U.S. Application Data

(60) Provisional application No. 61/539,884, filed on Sep. 27, 2011, provisional application No. 61/458,150, filed on Nov. 17, 2010, provisional application No. 61/389,000, filed on Oct. 1, 2010, provisional application No. 61/389,117, filed on Oct. 1, 2010, provisional application No. 61/389,087, filed on Oct. 1, 2010.

(51) **Int. Cl.**

G06F 1/16	(2006.01)
G06F 3/0481	(2013.01)
G06F 3/048	(2013.01)
G06F 3/0483	(2013.01)
G06F 3/0488	(2013.01)
G06F 3/01	(2006.01)
G06F 3/0484	(2013.01)
G06F 3/041	(2006.01)
G06F 3/14	(2006.01)

(52) **U.S. Cl.**

CPC ***G06F 3/0481*** (2013.01); ***G06F 1/16*** (2013.01); ***G06F 1/1616*** (2013.01); ***G06F 1/1641*** (2013.01); ***G06F 1/1677*** (2013.01); ***G06F 3/017*** (2013.01); ***G06F 3/048*** (2013.01); ***G06F 3/0412*** (2013.01); ***G06F 3/0483*** (2013.01); ***G06F 3/0484*** (2013.01); ***G06F 3/0488*** (2013.01); ***G06F 3/04812*** (2013.01); ***G06F 3/04842*** (2013.01); ***G06F 3/04883*** (2013.01); ***G06F 3/04886*** (2013.01); *G06F 3/1423* (2013.01); *G06F 2200/1614* (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,227,771	A *	7/1993	Kerr et al.	715/800
5,467,102	A	11/1995	Kuno et al.	
5,847,698	A	12/1998	Reavey et al.	
7,289,084	B2 *	10/2007	Lesniak	345/1.1
RE40,821	E	7/2009	Narayanaswamy et al.	
8,046,701	B2	10/2011	Chiu et al.	

(Continued)

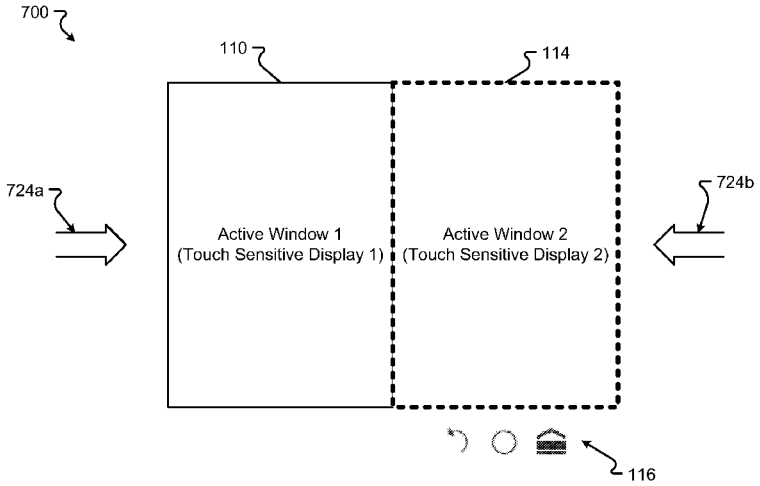
OTHER PUBLICATIONS

U.S. Appl. No. 13/187,026, filed Jul. 20, 2011, Chen

(Continued)

Primary Examiner — Xiao Wu
Assistant Examiner — Steven Elbinger

(57) **ABSTRACT**

Systems and methods are provides for adjusting focus during an orientation change. A window is displayed on a single display before the orientation change. After the device is oriented in the landscape orientation, the window expands into a full screen window being displayed on two displays. Further, the focus is changed to the window. And, a configurable area associated with at least one screen that displays the full screen window is changed to display the configurable area on the screen that is at the top of the device.

20 Claims, 26 Drawing Sheets