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U.S. PATENT: *7,844,915*
ISSUE DATE: *November 30, 2010*

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

(10) **Patent No.: US 7,844,915 B2**
(45) **Date of Patent: Nov. 30, 2010**

(54) **APPLICATION PROGRAMMING INTERFACES FOR SCROLLING OPERATIONS**

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(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 583 days.

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(22) Filed: **Jan. 7, 2007**

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(51) **Int. Cl.**
G06F 3/00 (2006.01)
G06F 3/033 (2006.01)
G06F 3/041 (2006.01)
G06F 3/048 (2006.01)

(52) **U.S. Cl.** **715/781**; 715/784; 715/800; 345/173

(58) **Field of Classification Search** 715/764, 715/765, 784, 786, 788, 800, 864, 866, 973, 715/974; 345/156, 157, 169, 173
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,534,893	A	7/1996	Hansen et al.	
5,903,902	A	5/1999	Orr et al.	
6,028,602	A	2/2000	Weidenfeller et al.	
6,486,896	B1	11/2002	Ubillos	
6,677,965	B1 *	1/2004	Ullmann et al.	715/786
6,741,996	B1	5/2004	Brechner et al.	
6,839,721	B2	1/2005	Schwols	
6,903,927	B2	6/2005	Anlauff	
6,957,392	B2	10/2005	Simister et al.	
6,958,749	B1 *	10/2005	Matsushita et al.	345/175
7,009,626	B2	3/2006	Anwar	
7,088,374	B2	8/2006	David et al.	
7,117,453	B2	10/2006	Drucker et al.	
7,173,623	B2	2/2007	Calkins et al.	
7,337,412	B2	2/2008	Guido et al.	
7,346,850	B2	3/2008	Swartz et al.	

(Continued)

FOREIGN PATENT DOCUMENTS

EP	1517228	3/2005

(Continued)

OTHER PUBLICATIONS

Toshiyuki Masui et al; "Elastic Graphical Interfaces for Precise Data Manipulation", 1995; ACM; pp. 143-144.*

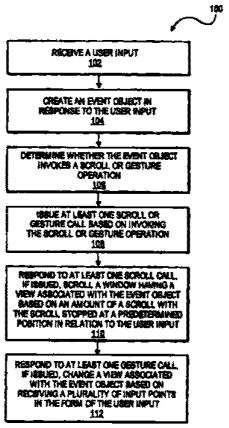
(Continued)

Primary Examiner—Xiomara L. Bautista
(74) *Attorney, Agent, or Firm*—Blakely, Sokoloff, Taylor & Zafman LLP

(57) **ABSTRACT**

At least certain embodiments of the present disclosure include an environment with user interface software interacting with a software application. A method for operating through an application programming interface (API) in this environment includes transferring a set bounce call. The method further includes setting at least one of maximum and minimum bounce values. The set bounce call causes a bounce of a scrolled region in an opposite direction of a scroll based on a region past an edge of the scrolled region being visible in a display region at the end of the scroll.

21 Claims, 37 Drawing Sheets



U.S. PATENT DOCUMENTS

7,561,159	B2	7/2009	Abel et al.	
7,576,732	B2 *	8/2009	Lii	345/173
2001/0045949	A1	11/2001	Chithambaram et al.	
2002/0194589	A1	12/2002	Cristofalo et al.	
2003/0095096	A1	5/2003	Robbin et al.	
2003/0122787	A1	7/2003	Zimmerman et al.	
2003/0132959	A1	7/2003	Simister et al.	
2003/0160832	A1	8/2003	Ridgley et al.	
2003/0174149	A1	9/2003	Fujisaki et al.	
2004/0021676	A1	2/2004	Chen et al.	
2004/0021698	A1	2/2004	Baldwin et al.	
2004/0100479	A1	5/2004	Nakano et al.	
2004/0215643	A1	10/2004	Brechner et al.	
2004/0222992	A1	11/2004	Calkins et al.	
2004/0224638	A1	11/2004	Fadell et al.	
2005/0057524	A1 *	3/2005	Hill et al.	345/173
2005/0088443	A1	4/2005	Blanco et al.	
2005/0193015	A1	9/2005	Logston et al.	
2006/0038796	A1 *	2/2006	Hinckley et al.	345/173
2006/0190833	A1	8/2006	SanGiovanni et al.	
2006/0236263	A1 *	10/2006	Bathiche et al.	715/786
2007/0055967	A1	3/2007	Poff et al.	
2007/0075965	A1	4/2007	Huppi et al.	
2007/0174257	A1	7/2007	Howard	
2007/0185876	A1	8/2007	Mendis et al.	
2007/0252821	A1 *	11/2007	Hollemans et al.	345/173
2007/0288856	A1	12/2007	Butlin et al.	
2008/0005703	A1 *	1/2008	Radivojevic et al.	715/863
2008/0016096	A1	1/2008	Wilding et al.	
2008/0034029	A1	2/2008	Fang et al.	
2008/0048978	A1 *	2/2008	Trent et al.	345/157
2008/0168395	A1 *	7/2008	Ording et al.	715/833
2008/0231610	A1 *	9/2008	Hotelling et al.	345/173
2009/0259969	A1 *	10/2009	Pallakoff	715/808

FOREIGN PATENT DOCUMENTS

GB	2 319 591 A		5/1998
GB	2319591 A	*	5/1998
WO	WO-2006/067711		6/2006
WO	WO 2008/085848 A1	*	7/2008
WO	WO 2008/085877 A1	*	7/2008
WO	WO-2008085848		7/2008
WO	WO-2008085877		7/2008

OTHER PUBLICATIONS

Office Action, U.S. Appl. No. 11/620,723, mailed Apr. 1, 2009, 8 pages.
Office Action, U.S. Appl. No. 11/620,709, mailed Apr. 1, 2009, 8 pages.
Office Action, U.S. Appl. No. 11/620,720, mailed Jun. 23, 2009, 17 pages.
Office Action, U.S. Appl. No. 11/620,720, mailed Dec. 23, 2008, 18 pages.
PCT International Search Report and Written Opinion for PCT International Appln. No. US2008/000058, mailed Jul. 31, 2008 (10 pages).
PCT International Search Report and Written Opinion for PCT International Appln. No. US2008/000089, mailed Apr. 6, 2008 (14 pages).
PCT International Search Report and Written Opinion for PCT International Appln. No. PCT/US2008/000103, mailed Jun. 3, 2008 (15 pages).
PCT International Search Report and Written Opinion for PCT International Appln. No. PCT/US2008/000069, mailed May 2, 2008 (16 pages).
PCT International Search Report and Written Opinion for PCT International Appin. No. PCT/US2008/000060, mailed Apr. 22, 2008 (12 pages).
Office Action, U.S. Appl. No. 11/620,723, mailed Jun. 8, 2010, 7 pages.
Office Action, U.S. Appl. No. 11/620,709, mailed Jun. 9, 2010, 7 pages.
Final Office Action, U.S. Appl. No. 11/620,709 mailed Nov. 13, 2009, 8 pages.
Final Office Action, U.S. Appl. No. 11/620,723, mailed Nov. 17, 2009., 10 pages.
Office Action, U.S. Appl. No. 11/620,720 mailed Nov. 18, 2009, 17 pages.

* cited by examiner

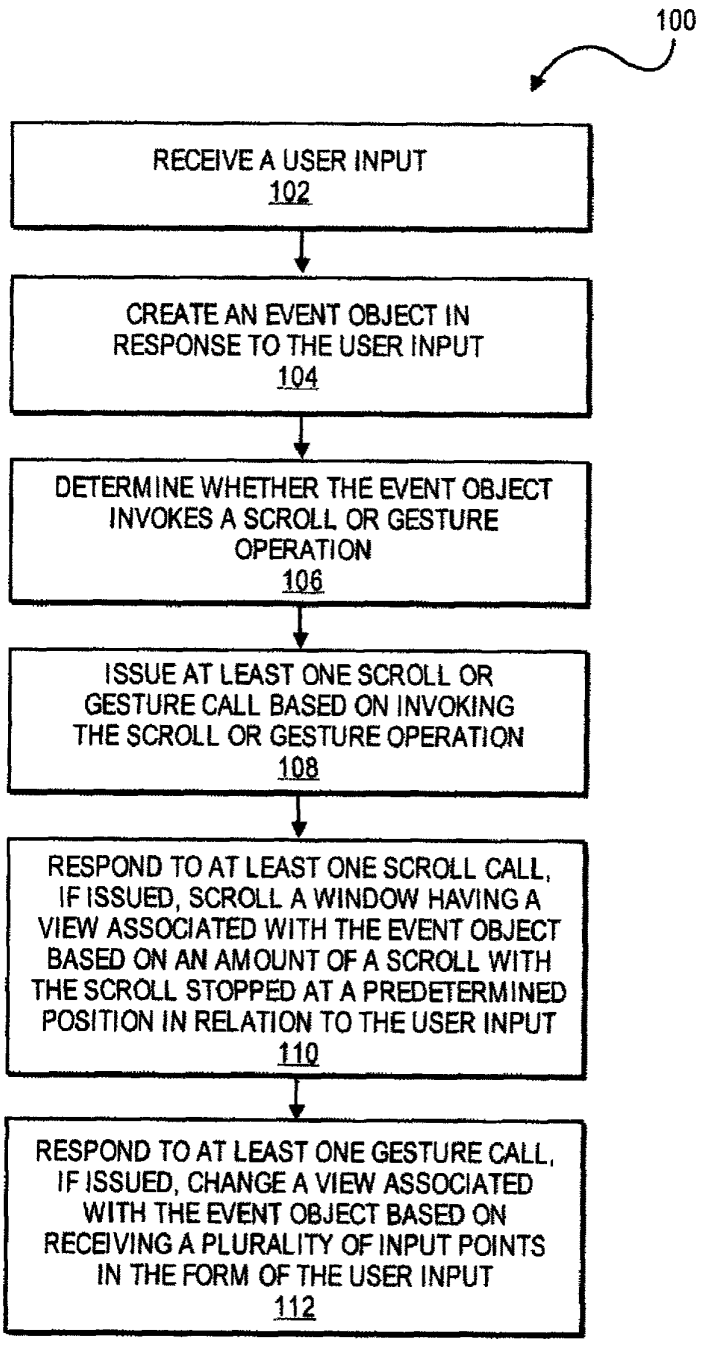


FIG. 1

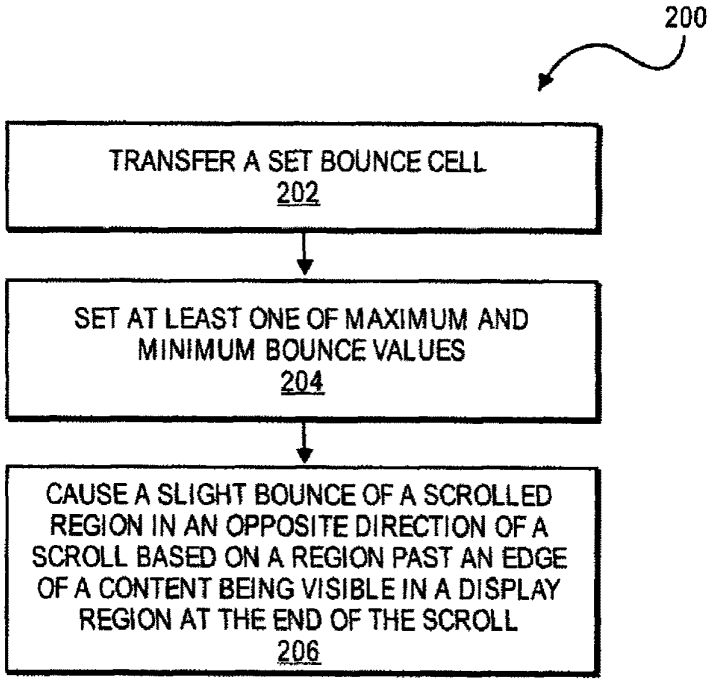


FIG. 2

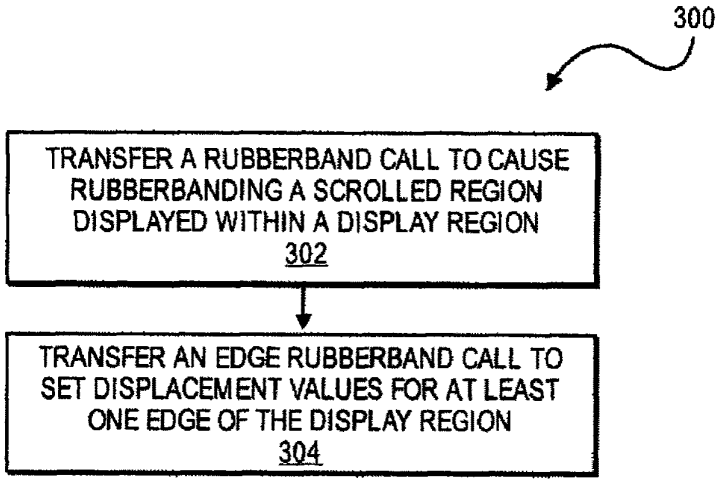


FIG. 3

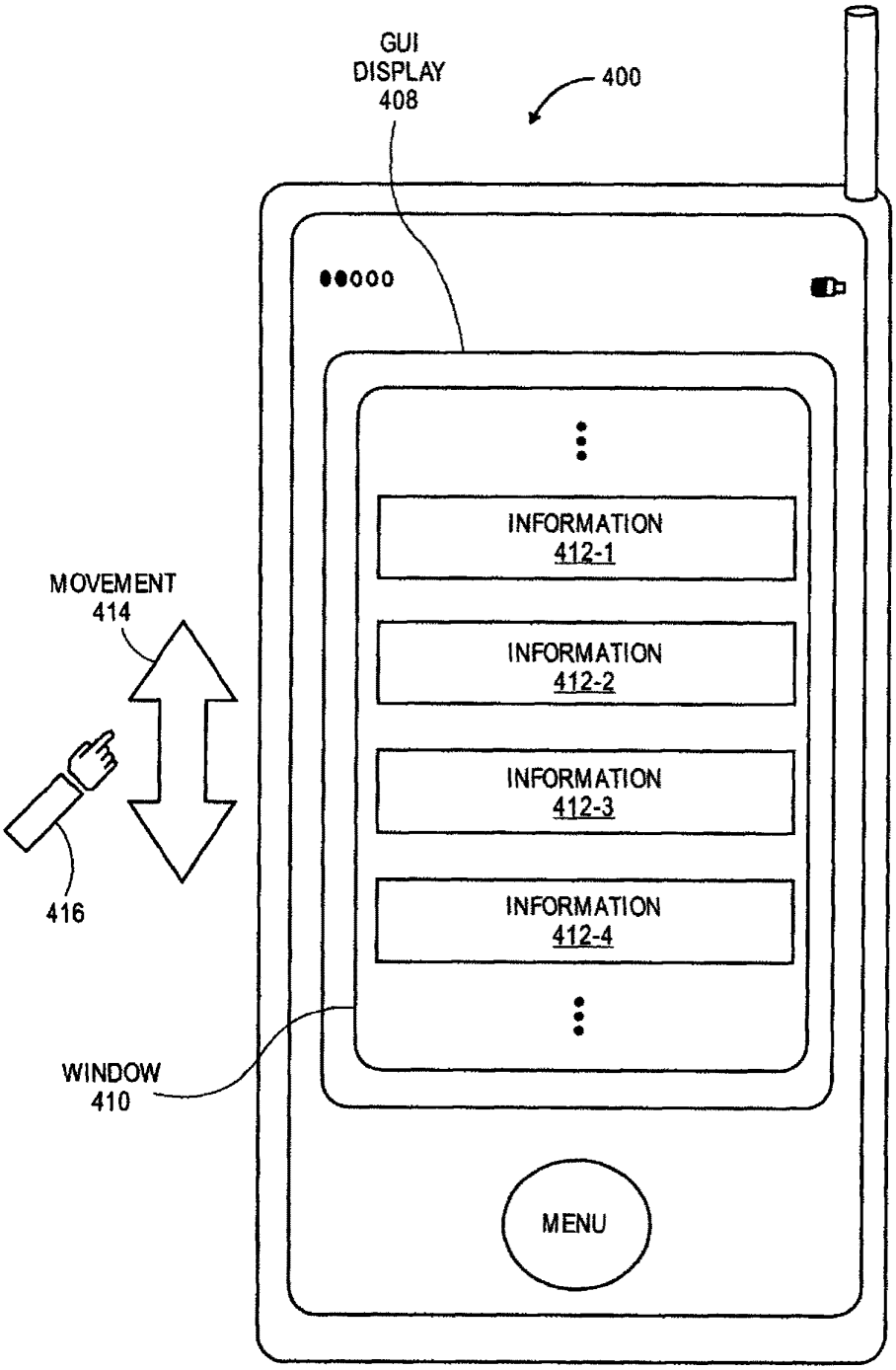


FIG. 4

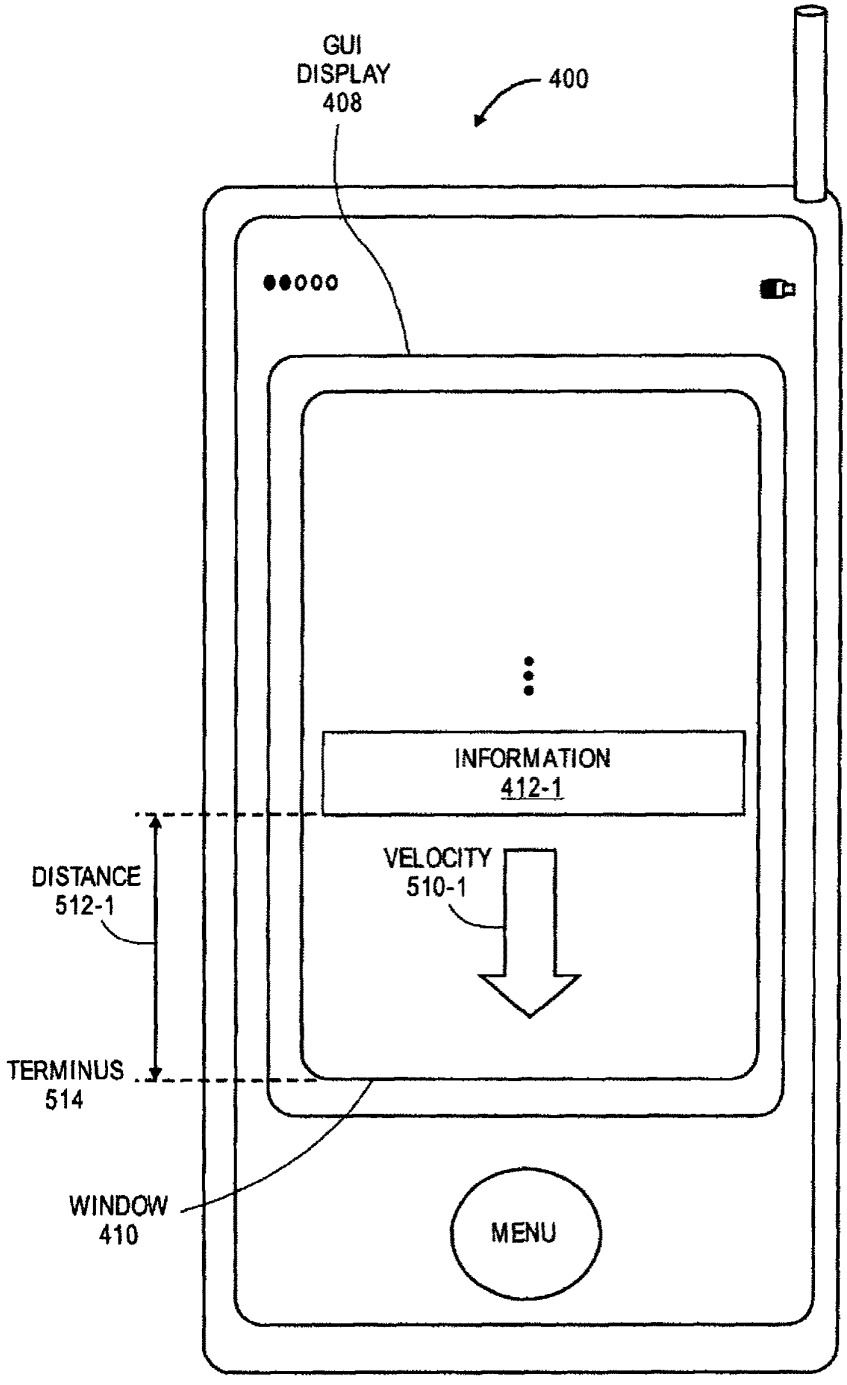

GUI
DISPLAY
408
400
INFORMATION
412-1
VELOCITY
510-1
DISTANCE
512-1
TERMINUS
514
WINDOW
410
MENU

FIG. 5A

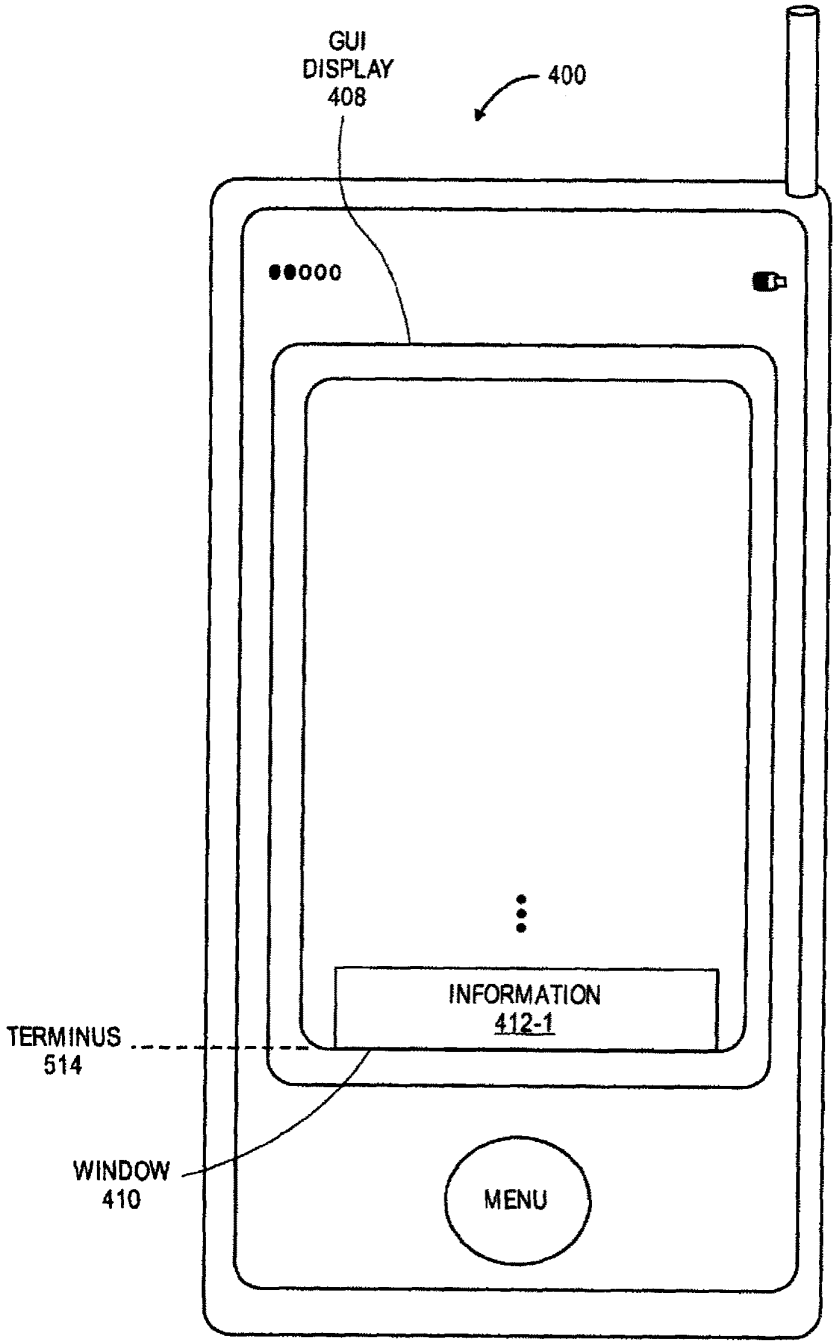


FIG. 5B

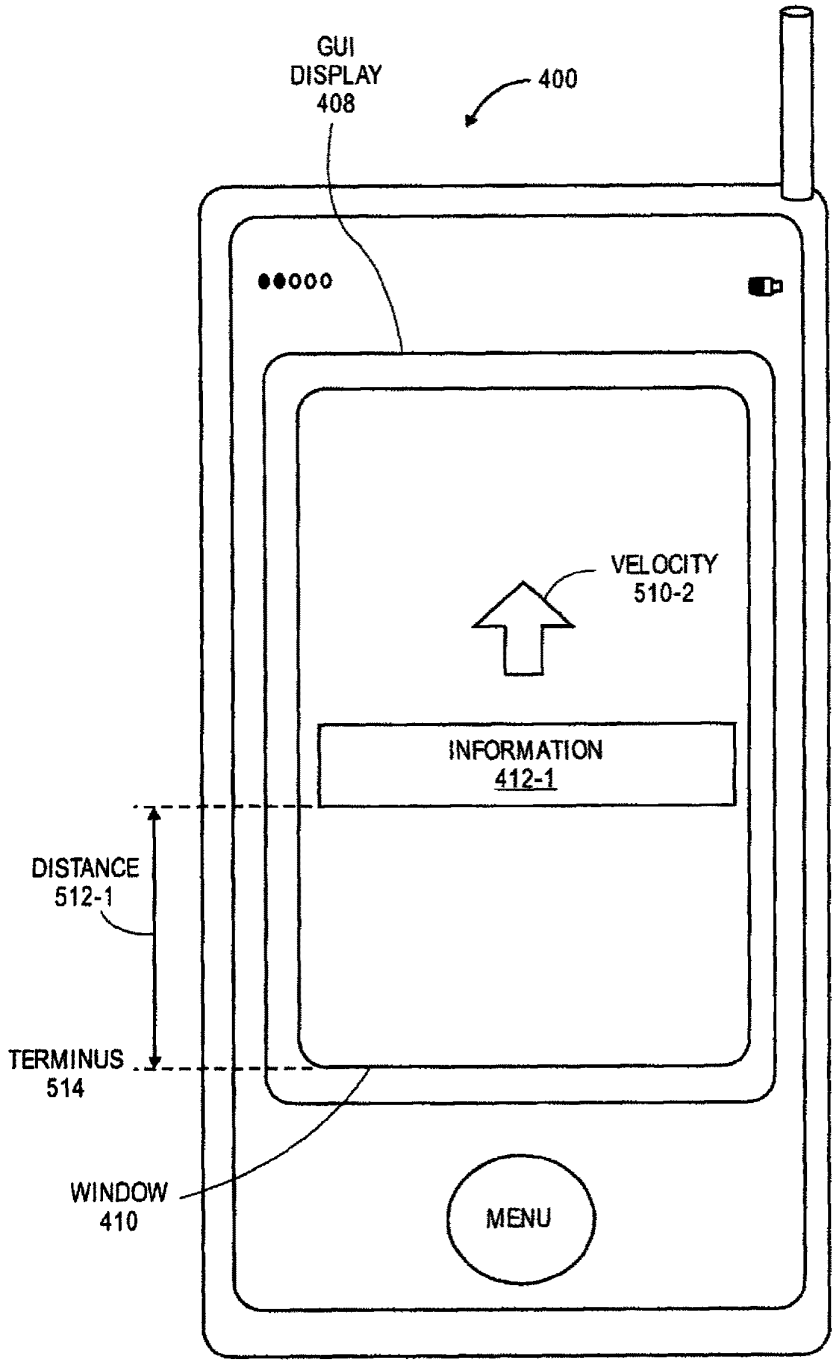
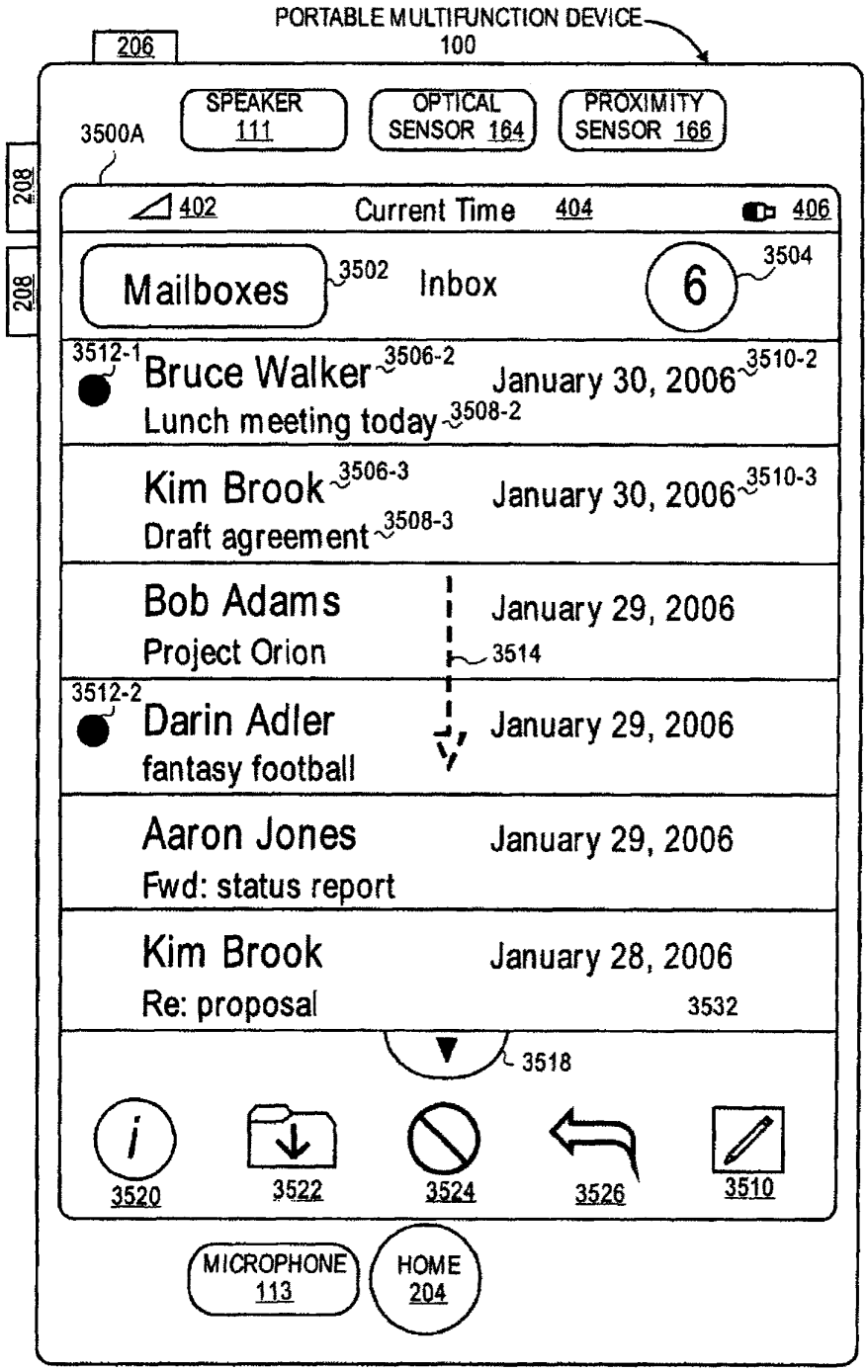


FIG. 5C


PORTABLE MULTIFUNCTION DEVICE
100
206
SPEAKER 111
OPTICAL SENSOR 164
PROXIMITY SENSOR 166
3500A
208
208
402
Current Time 404
406
Mailboxes
3502
Inbox
6
3504
3512-1
Bruce Walker
3506-2
January 30, 2006
3510-2
Lunch meeting today
3508-2
Kim Brook
3506-3
January 30, 2006
3510-3
Draft agreement
3508-3
Bob Adams
January 29, 2006
Project Orion
3514
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Darin Adler
January 29, 2006
fantasy football
Aaron Jones
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Fwd: status report
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3532
3518
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3526
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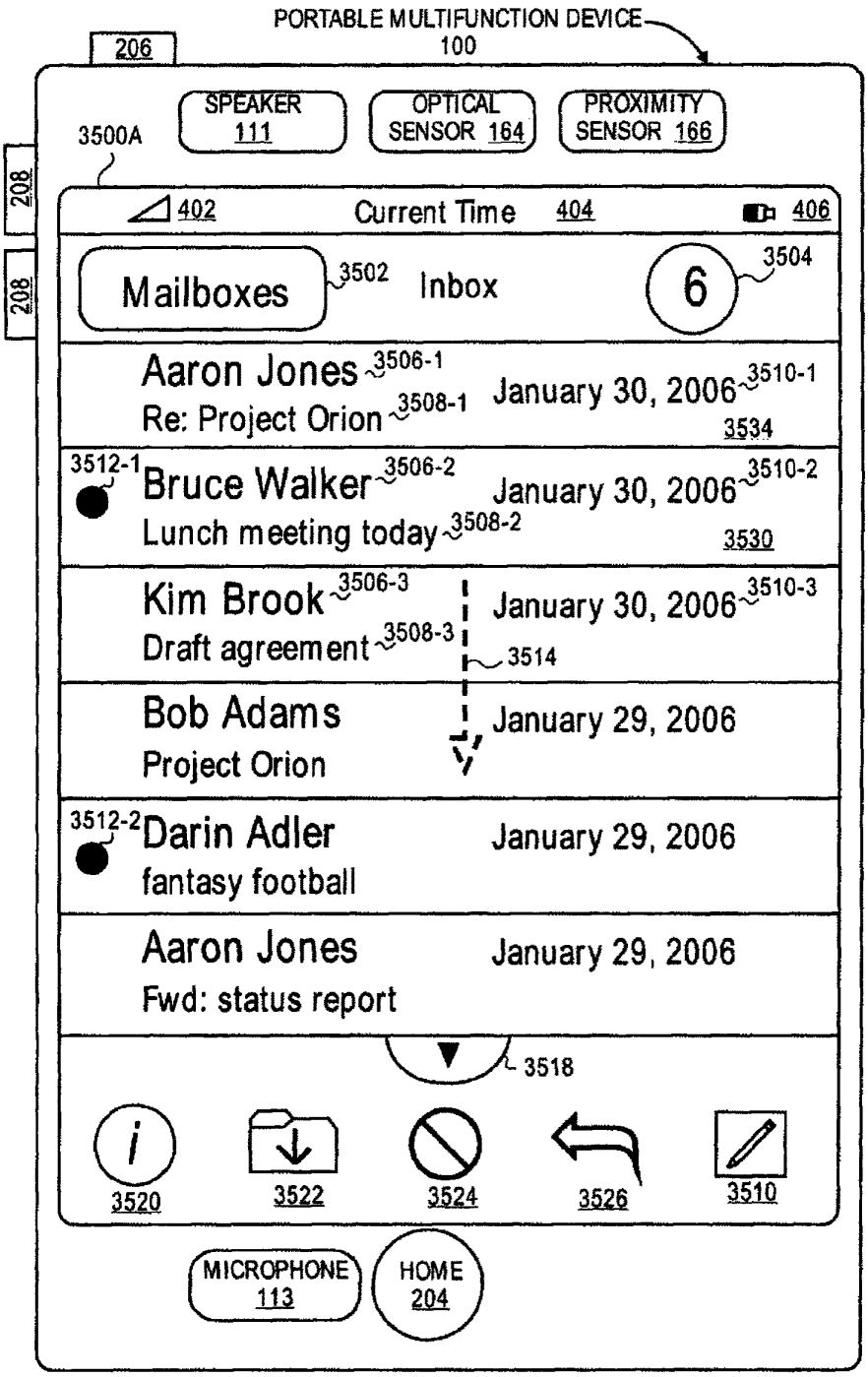
MICROPHONE 113
HOME 204

FIG. 6A



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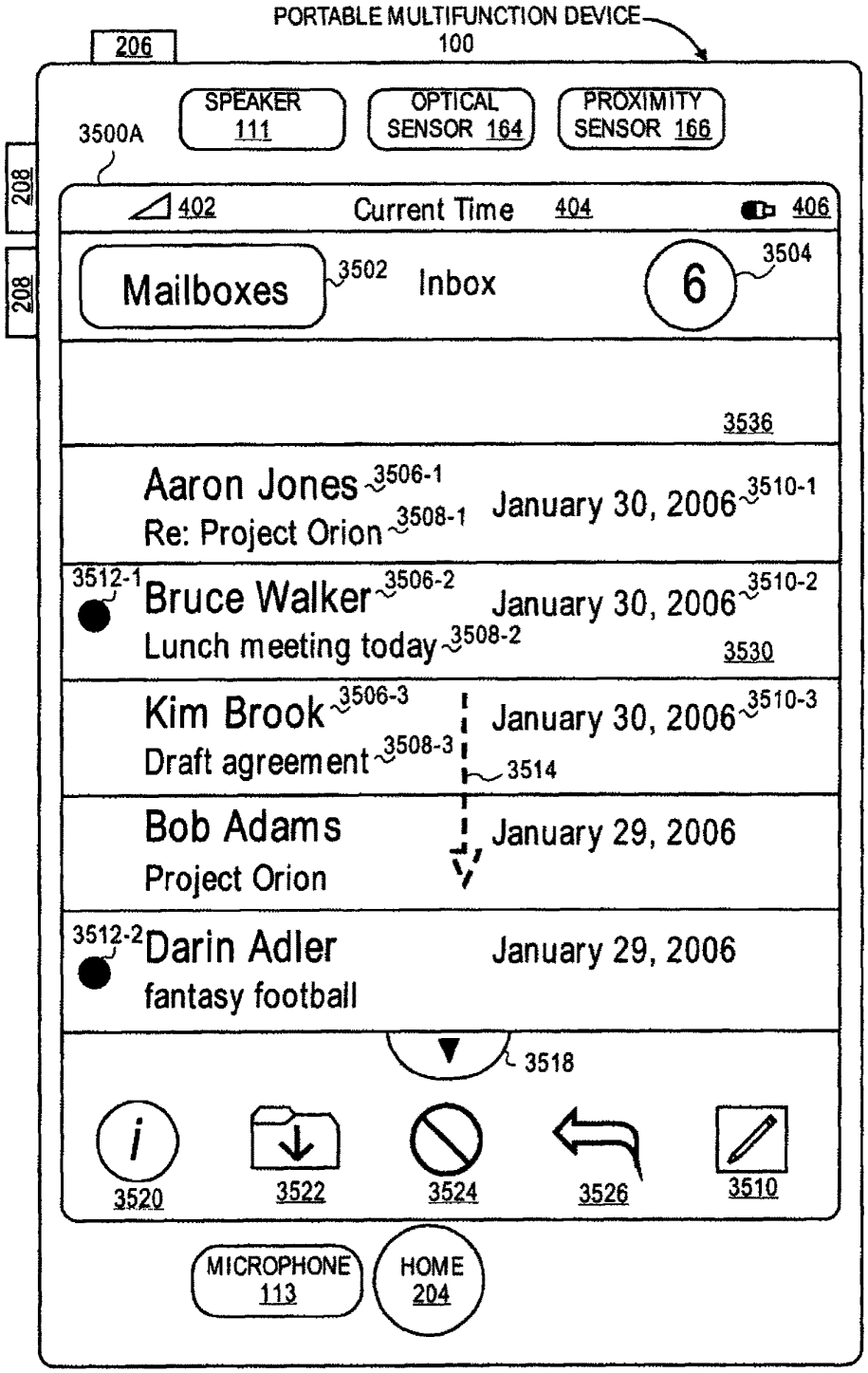


FIG. 6C

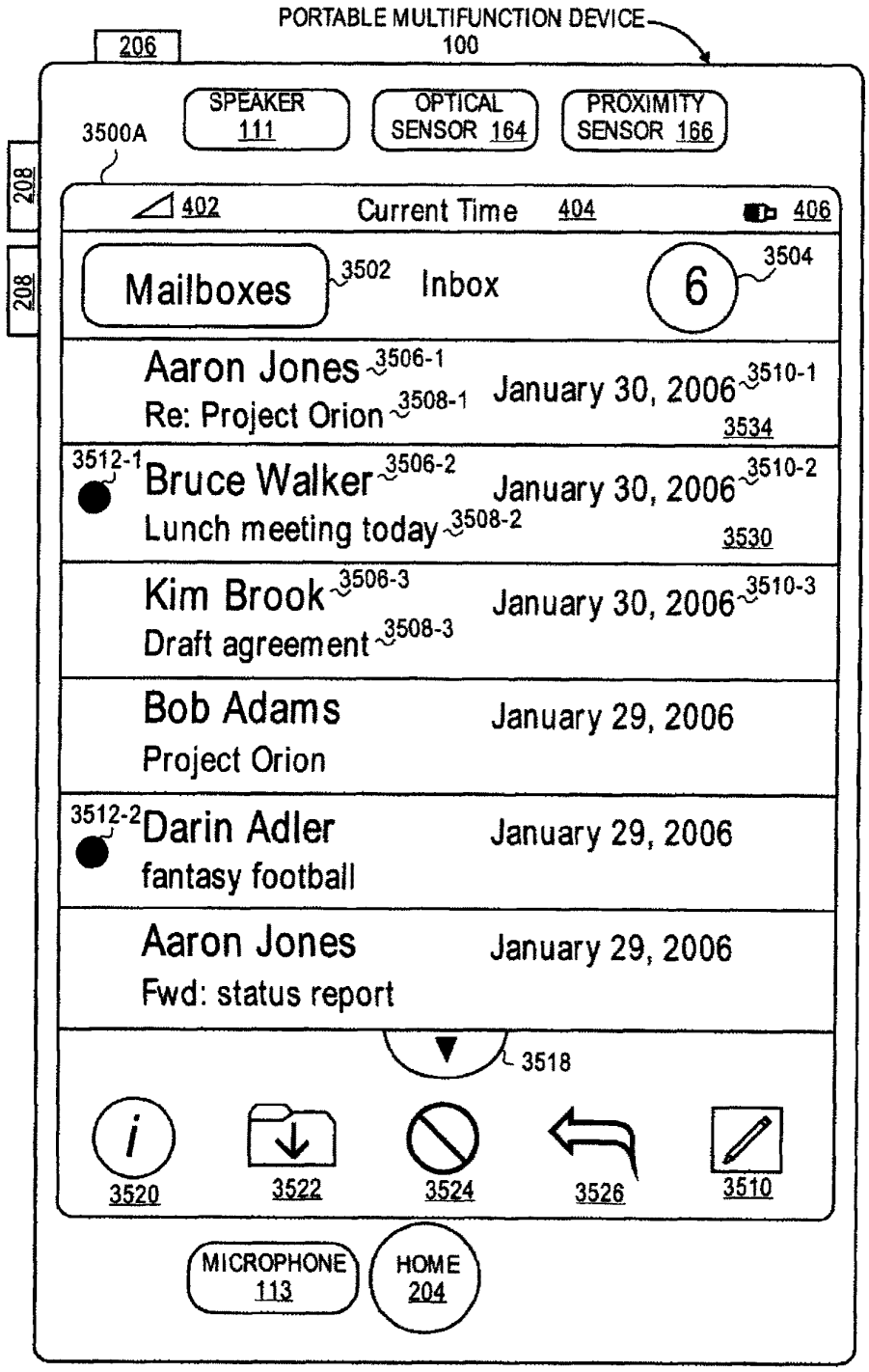


FIG. 6D

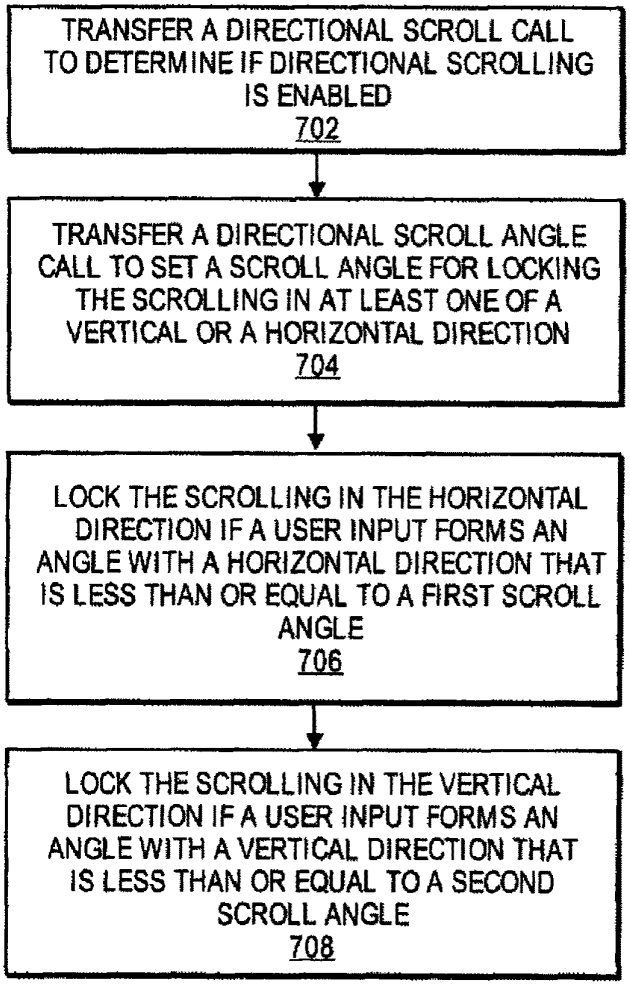


FIG. 7

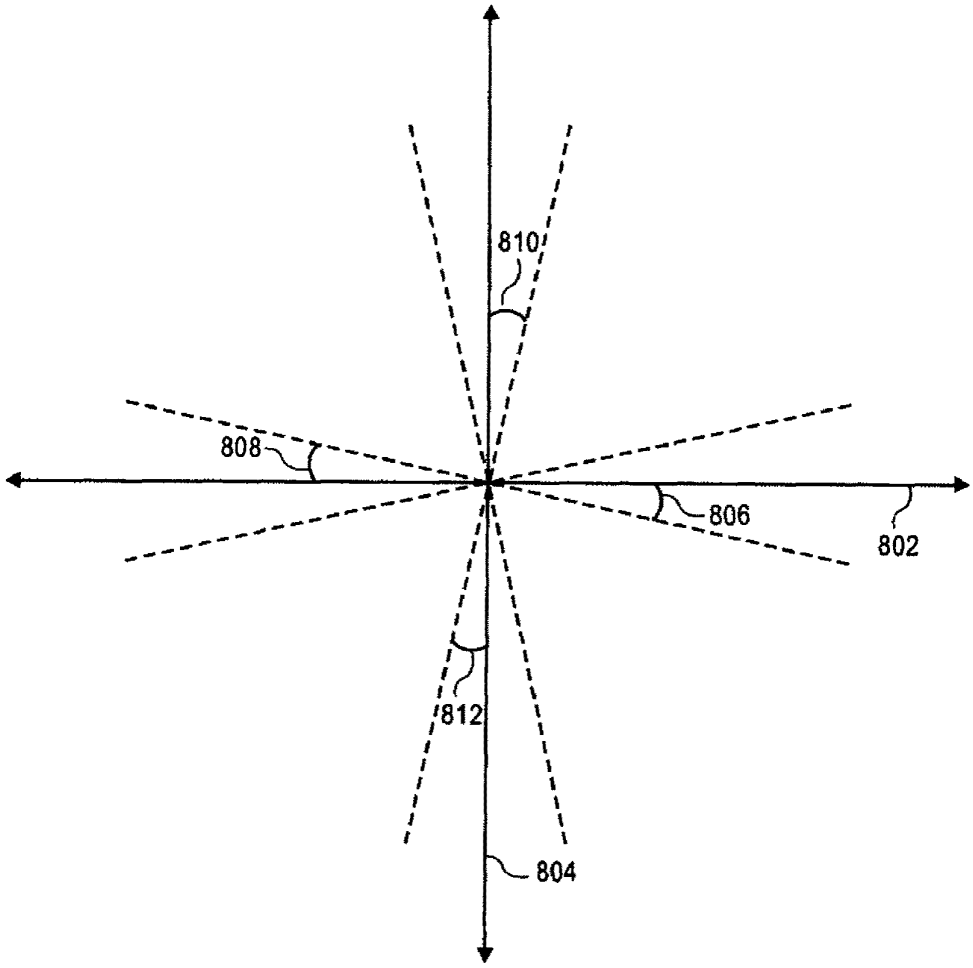


FIG. 8

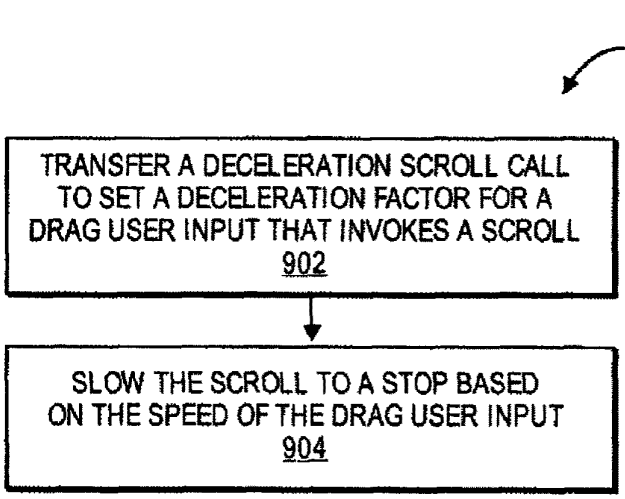


FIG. 9

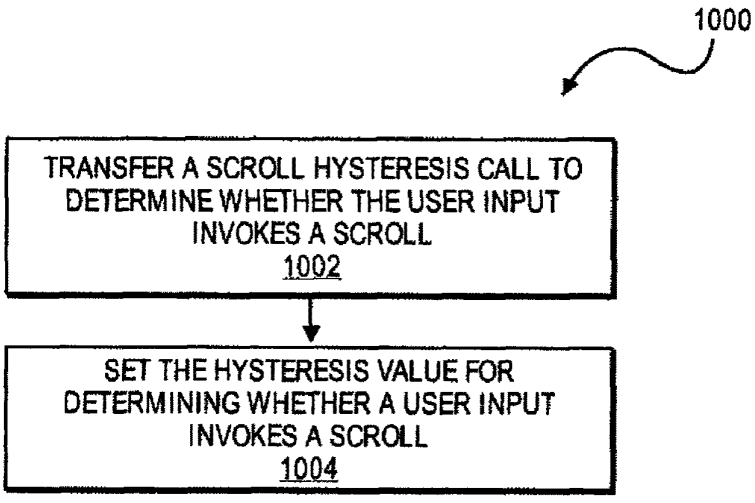
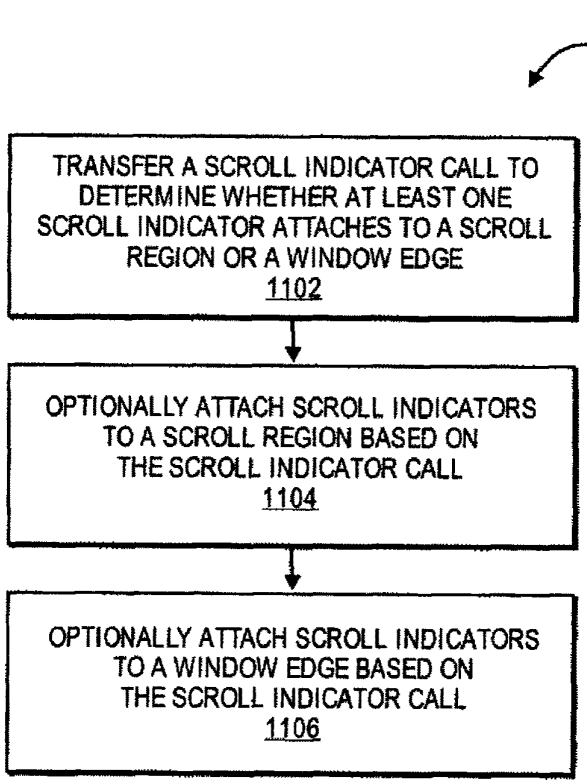


FIG. 10



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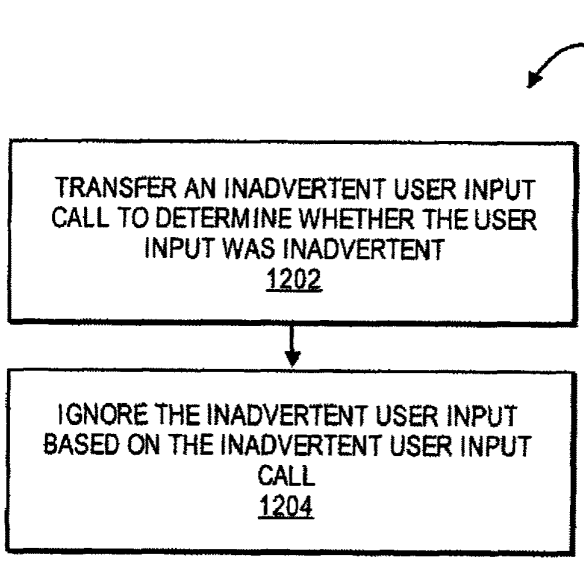

FIG. 12