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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.
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**Published:**

— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: JUMP TO TOP / JUMP TO BOTTOM SCROLL WIDGETS

(57) Abstract: Methods and systems for accelerated scrolling and zooming of content. A method may include receiving an indication of a scroll action. The scroll action indicates a direction to scroll and a user's intent to scroll a significant distance. The method further includes evaluating the direction and a length of the scroll action. The method still further includes providing a scroll widget, for example by an operating system or an application. The widget is to be presented relative to a location of where the indication was received. The scroll widget then allows a user to jump to a top or an end of a content displayed at the location.

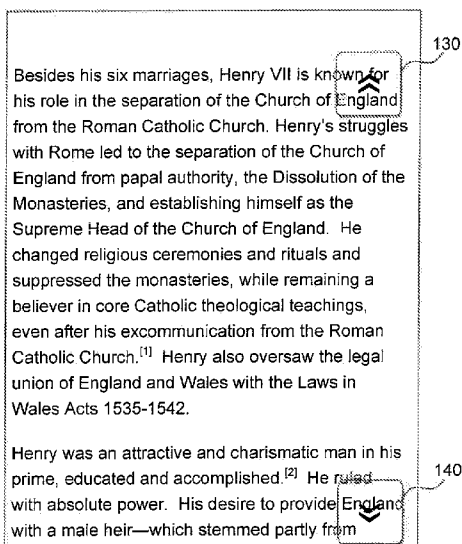


FIG. 1B

— *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))*

**(88) Date of publication of the international search report:**  
7 March 2013

INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2012/034045

A. CLASSIFICATION OF SUBJECT MATTER  
INV. G06F3/048  
ADD.  
  
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

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Arrow appearing when scrolling page", Opera Mini Forums, 14 April 2011 (2011-04-14), XP055034706, Internet Retrieved from the Internet: URL:http://my.opera.com/community/forums/topic.dml?id=959712 [retrieved on 2012-08-06] the whole document	1-10, 15-22
X	US 6 037 937 A (BEATON BRIAN FINLAY [CA] ET AL) 14 March 2000 (2000-03-14) column 4, line 9 - column 63, line 35; figures 8-11B	1-10, 15-22

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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

"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

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  7 August 2012	Date of mailing of the international search report  14/01/2013
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Tonet, Oliver
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2012/034045

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-10, 15-22

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10, 15-22

conditional display of a scroll widget

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2. claims: 11-14

display of a zoom widget at a specific location

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## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2012/034045

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 837 747 A1 (LG ELECTRONICS INC [KR]) 26 September 2007 (2007-09-26)  claims 9,16  -----	1,6,7, 15,19, 20,22
A	US 5 530 455 A (GILLICK WILLIAM G [US] ET AL) 25 June 1996 (1996-06-25) column 7, line 9 - line 37  -----	1,6,15, 19,22
A	US 2007/150830 A1 (ORDING BAS [US] ET AL) 28 June 2007 (2007-06-28) paragraph [0068] - paragraph [0069]; figure 11C  -----	1,15,22
A	US 2010/064250 A1 (SCHROEDER JAMISON C [US] ET AL) 11 March 2010 (2010-03-11) paragraph [0028] - paragraph [0042]  -----	1,15,22

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2012/034045
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 6037937	A	14-03-2000	US 6037937 A WO 9928813 A1	14-03-2000 10-06-1999
EP 1837747	A1	26-09-2007	AU 2007201241 A1 BR PI0705930 A CA 2582738 A1 CN 101043685 A EP 1837747 A1 EP 2381350 A1 HK 1107738 A1 JP 2007257643 A KR 20070096243 A US 2007254722 A1 US 2011018833 A1	11-10-2007 22-07-2008 21-09-2007 26-09-2007 26-09-2007 26-10-2011 08-06-2012 04-10-2007 02-10-2007 01-11-2007 27-01-2011
US 5530455	A	25-06-1996	NONE	
US 2007150830	A1	28-06-2007	AU 2006330740 A1 CN 101371217 A CN 101980128 A DE 112006003505 T5 EP 1963950 A1 JP 2009521754 A KR 20080079695 A US 2007150830 A1 US 2011022985 A1 WO 2007076226 A1	05-07-2007 18-02-2009 23-02-2011 09-10-2008 03-09-2008 04-06-2009 01-09-2008 28-06-2007 27-01-2011 05-07-2007
US 2010064250	A1	11-03-2010	DE 102009040387 A1 US 2010064250 A1	27-05-2010 11-03-2010