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[Continued on next page]

(54) Title: NOTIFYING A USER OF EVENTS IN A COMPUTING DEVICE

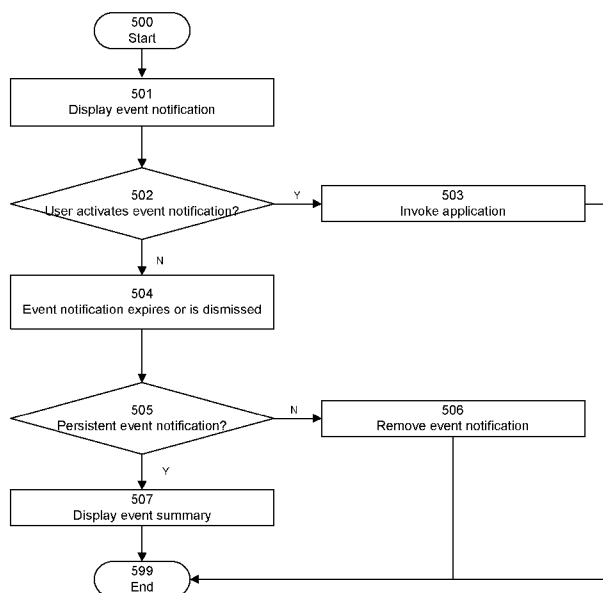


FIG. 5

(57) Abstract: In a computing device, event notifications take the form of alerts that can be presented in different ways. The particular form of each event notification depends on the nature of the event, the user task being performed at the time the event occurs, the user's preferences, or any combination thereof. The present invention presents event notifications in the form of banner alerts. Obtrusiveness is minimized by presenting the notification at a location near the edge of the screen (such as a bottom edge), and slightly shrinking the active display area to make room for the event notification. In this manner, event notifications can be presented without obscuring any part of the active display area. In addition, the user can obtain more information about the event by activating the notification (for example by tapping on it). In another aspect, the present invention provides a summary of pending event notifications.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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PCT/US2009/051454**A. CLASSIFICATION OF SUBJECT MATTER****G06F 3/14(2006.01)i, G06F 9/06(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)

IPC : G06F

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

(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) "event", "notification", "activity", "message", "banner", "alert", "reducing", "display", "size"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005-0213717 A1(DANIEL G. O'NEIL et al.) 29 September 2005 See abstract; figure 3; paragraphs [0028], [0031]; claims 1, 4-9, 13.	1-30
A	US 2006-0119537 A1(WILLIAM H. VONG et al.) 8 June 2006 See abstract; figure 5; paragraph [0038].	1-30
A	US 2007-0162871 A1(KENJI ISHII) 12 July 2007 See abstract, figure 1; paragraphs [0100]-[0101].	1-30
A	KR 10-0751936 B1(LG ELECTRONICS INC.) 27 August 2007 See abstract; figure 2; claims 1-2.	1-30
A	US 2006-0123353 A1(DAVID A. MATTHEWS et al.) 8 June 2006 See abstract; figures 18-20; claims 1-3, 6-7.	1-30



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/US2009/051454

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005-0213717 A1	29.09.2005	CN 1680918 A EP 1583331 A1 JP 2005-295549 A KR 20060044858 A KR 10-0882367 B1	12.10.2005 05.10.2005 20.10.2005 16.05.2006 05.02.2009
US 2006-0119537 A1	08.06.2006	CN 1367426 A GB 2407186 A GB 2371128 A JP 2002-236539 A TW 526434 A US 2002-0085045 A1 US 07030837 B1 US 2002-0067338 A1 US 2004-0216059 A1 US 2006-0119538 A1 US 2002-0067338 A1 US 2002-0085045 A1 US 2004-0216059 A1 US 2006-0119538 A1 US 2006-0170613 A1 US 07227511 B2 US 06917373 B2	04.09.2002 20.04.2005 17.07.2002 23.08.2002 01.04.2003 04.07.2002 18.04.2006 06.06.2002 28.10.2004 08.06.2006 06.06.2002 04.07.2002 28.10.2004 08.06.2006 03.08.2006 05.06.2007 12.07.2005
US 2007-0162871 A1	12.07.2007	JP 2007-188265 A	26.07.2007
KR 10-0751936 B1	27.08.2007	None	
US 2006-0123353 A1	08.06.2006	AU 2005-229691 A1 PI 0504834 A CA 2525444 A1 CN 1786906 A CN 1786906 C0 EP 1669848 A2 JP 2006-164290 A KR 10-2006-0064523 A PA 05012068 A RU 2005138104 A	22.06.2006 10.07.2007 08.06.2006 14.06.2006 14.06.2006 14.06.2006 22.06.2006 13.06.2006 11.12.2007 20.06.2007