

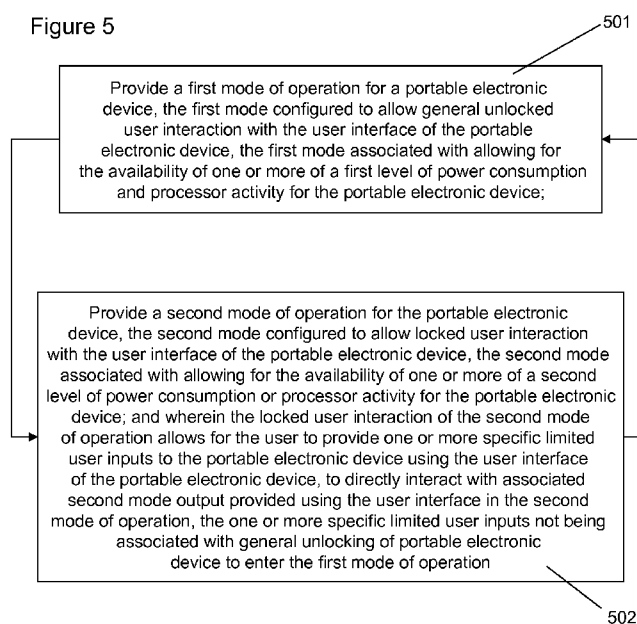


- (51) **International Patent Classification:**
G06F 1/32 (2006.01) *G06F 3/048* (2013.01)
- (21) **International Application Number:**
PCT/IB2012/056068
- (22) **International Filing Date:**
31 October 2012 (31.10.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/285,714 31 October 2011 (31.10.2011) US
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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, BN, 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, PA, 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.
- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

- (54)
- Title:**
- TOUCH DEVICE ADJUSTING USER INTERFACE ACCORDING TO POWER CONSUMPTION

Figure 5



(57) **Abstract:** An apparatus configured to perform at least the following: provide a first mode of operation for a portable electronic device, the first mode configured to allow general unlocked user interaction with the user interface of the portable electronic device, the first mode associated with allowing for the availability of one or more of a first level of power consumption and processor activity for the portable electronic device; provide a second mode of operation for the portable electronic device, the second mode configured to allow locked user interaction with the user interface of the portable electronic device, the second mode associated with allowing for the availability of one or more of a second level of power consumption or processor activity for the portable electronic device; and wherein the locked user interaction of the second mode of operation allows for the user to provide one or more specific limited user inputs to the portable electronic device using the user interface of the portable electronic device, to directly interact with associated second mode output provided using the user interface in the second mode of operation, the one or more specific limited user inputs not being associated with general unlocking of portable electronic device to enter the first mode of operation.

**Published:****(88) Date of publication of the international search report:**

19 September 2013

- *with international search report (Art. 21(3))*
- *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))*

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference NOKEO/P52278PC	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/IB2012/056068	International filing date (<i>day/month/year</i>) 31-10-2012 (Earliest) Priority Date (<i>day/month/year</i>) 31-10-2011
Applicant Nokia Corporation	

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed.
☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II).

3. ☐ **Unity of invention is lacking** (See Box No. III).

4. With regard to the **title**,

- ☐ the text is approved as submitted by the applicant.
☒ the text has been established by this Authority to read as follows:

Touch device adjusting user interface according to power consumption.

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 5
☒ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2012/056068

A. CLASSIFICATION OF SUBJECT MATTER

IPC: see extra sheet

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

SE, DK, FI, NO classes as above

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

EPO-Internal, PAJ, WPI data, COMPENDEX, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 2144148 A2 (LG ELECTRONICS INC), 13 January 2010 (2010-01-13); paragraphs [0006]-[0007], [0032], [0052]-[0059], [0098] --	1-20
X	WO 2006032721 A1 (NOKIA CORP ET AL), 30 March 2006 (2006-03-30); page 2, line 9 - line 29; page 6, line 8 - page 7, line 21 --	1-20
X	US 20110105193 A1 (LEE CHANG SOO ET AL), 5 May 2011 (2011-05-05); abstract; paragraphs [0005]-[0008] --	1-20



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

08-07-2013

Date of mailing of the international search report

08-07-2013

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/IB2012/056068

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6523124 B1 (LUNSFORD ERIC M ET AL), 18 February 2003 (2003-02-18); abstract; column 3, line 18 - line 33 -- -----	1-20

Continuation of: second sheet

International Patent Classification (IPC)

G06F 1/32 (2006.01)

G06F 3/048 (2013.01)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB2012/056068

EP	2144148 A2	13/01/2010	CN	102981754 A	20/03/2013
			CN	101625620 A	13/01/2010
			KR	20100005438 A	15/01/2010
			US	20100001967 A1	07/01/2010
WO	2006032721 A1	30/03/2006	BR	PI0419168 A	11/12/2007
			JP	4773448 B2	14/09/2011
			JP	2008515039 A	08/05/2008
			US	7562241 B2	14/07/2009
			US	20060117197 A1	01/06/2006
US	20110105193 A1	05/05/2011	KR	20110047409 A	09/05/2011
US	6523124 B1	18/02/2003	US	20080086651 A1	10/04/2008
			US	20040073823 A1	15/04/2004
			US	20030061525 A1	27/03/2003
			US	7296107 B2	13/11/2007
			US	6665803 B2	16/12/2003