

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(43) 国际公布日
2013年11月14日 (14.11.2013) WIPO | PCT

(10) 国际公布号
WO 2013/167053 A3

- (51) 国际专利分类号:
G06F 9/445 (2006.01)
- (21) 国际申请号: PCT/CN2013/079630
- (22) 国际申请日: 2013年7月18日 (18.07.2013)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
201210489197.0 2012年11月27日 (27.11.2012) CN
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- (81) 指定国 (除另有指明, 要求每一种可提供的国家保护): 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, 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) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (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, KM, ML, MR, NE, SN, TD, TG)。
- 本国际公布:
— 包括国际检索报告(条约第21条(3))。
— 在修改权利要求的期限届满之前进行, 在收到该修改后将重新公布(细则48.2(h))。

[见续页]

(54) Title: TERMINAL ACTIVATION METHOD AND TERMINAL

(54) 发明名称: 一种终端激活方法及终端

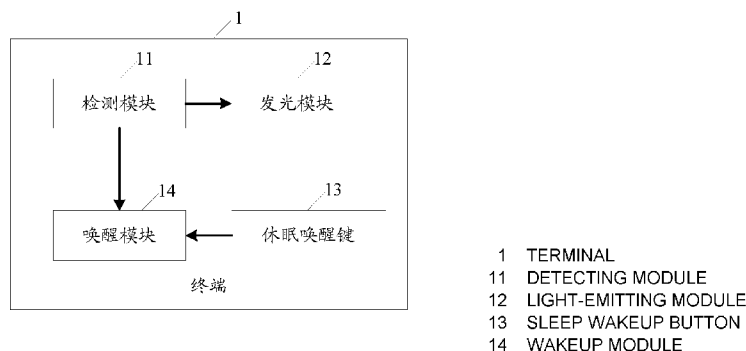


图 1 / FIG. 1

(57) Abstract: The present invention provides a terminal activation method for a user to activate a terminal in dark environment and the terminal. The method comprises: detecting whether a screen trigger signal satisfying a preset condition received when the terminal is in a sleep mode; if yes, lighting a light-emitting module located around a sleep wakeup button; receiving a wakeup signal sent from the user by pressing the sleep wakeup button and activating the terminal according to the wakeup signal. Through the implementation of the present invention, when needing to activate the terminal in dark environment, the user can light the light-emitting module only by implementing sliding operation meeting conditions on the screen or long pressing a point, and can easily active the terminal via the sleep wakeup button under the guidance of the light-emitting module so as to avoid blind operation and enhance user experience.

(57) 摘要: 本发明提供一种便于用户在黑暗环境下激活终端的终端激活方法及终端。该方法包括: 终端在休眠状态下, 检测是否收到满足预设条件的屏幕触发信号; 若收到, 则点亮设置在休眠唤醒键周围的发光模块; 接收用户通过按下休眠唤醒键发出的唤醒信号, 根据唤醒信号激活终端。通过本发明的实施, 用户需要在黑暗环境中激活终端时, 仅需要在屏幕上进行符合条件的滑动操作或长按点操作即可点亮发光模块, 在发光模块的指引下轻松的通过休眠唤醒键激活终端, 避免了盲操作, 增强了用户的使用体验。

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— 根据申请人的请求，在条约第 21 条(2)(a)所规定 (88) 国际检索报告公布日期: 2014 年 1 月 3 日
的期限届满之前进行。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2013/079630

A. CLASSIFICATION OF SUBJECT MATTER

G06F 9/445 (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 9/-

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)

Data bases: WPI, EPODOC, CNPAT, CNKI

Search terms: YANG, Zhenjie; ZTE, dormancy, nighttime, night, phone, unlock screen, light+, sleep+, dark+, button, wak+, awak+, activat+, terminate, notebook, computer, cellphone, mobile, unlock

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN 102609072 A (HUIZHOU TCL MOBILE COMMUNICATION CO., LTD.), 25 July 2012 (25.07.2012), description, paragraphs [0037]-[0089], and figures 3-9	1-2, 4-10
A		3
Y	CN 1885977 A (HUAWEI TECHNOLOGIES CO., LTD.), 27 December 2006 (27.12.2006), description, page 5, line 1 to page 8, line 15, and figures 1-3	1-2, 4-10
A		3
A	CN 102508591 A (MICROSOFT CORP.), 20 June 2012 (20.06.2012), the whole document	1-10
PX	CN 102981766 A (ZTE CORP.), 20 March 2013 (20.03.2013), claims 1-10	1-10

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&” document member of the same patent family</p>
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Date of the actual completion of the international search
12 October 2013 (12.10.2013)

Date of mailing of the international search report
31 October 2013 (31.10.2013)

Name and mailing address of the ISA/CN:
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2013/079630

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 102609072 A	25.07.2012	None	
CN 1885977 A	27.12.2006	None	
CN 102508591 A	20.06.2012	US 2012071149 A1	22.03.2012
		US 8311514 B2	13.11.2012
CN 102981766 A	20.03.2013	None	

A. 主题的分类
G06F 9/445 (2006.01) i
按照国际专利分类(IPC)或者同时按照国家分类和 IPC 两种分类

B. 检索领域
检索的最低限度文献(标明分类系统和分类号)
IPC: G06F 9/-

包含在检索领域中的除最低限度文献以外的检索文献

在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))
数据库: WPI, EPODOC, CNPAT, CNKI
检索词: 杨振杰, 中兴, 点亮, 灯, 光, 休眠, 睡眠, 待机, 黑暗, 夜间, 黑夜, 按键, 按钮, 唤醒, 激活, 终端, 电脑, 手机, 电话, 解锁, 解屏, light+, sleep+, dark+, button, wak+, awak+, activat+, terminate, notebook, computer, cellphone, mobile, unlock

C. 相关文件

类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
Y	CN 102609072 A(惠州 TCL 移动通信有限公司)25.7 月 2012(25.07.2012) 说明书第[0037]-[0089]段, 图 3-9	1-2, 4-10
A		3
Y	CN 1885977 A(华为技术有限公司)27.12 月 2006(27.12.2006) 说明书第 5 页第 1 行至第 8 页第 15 行, 图 1-3	1-2, 4-10
A		3
A	CN 102508591 A(微软公司)20.6 月 2012(20.06.2012)全文	1-10
PX	CN 102981766 A(中兴通讯股份有限公司)20.3 月 2013(20.03.2013) 权利要求 1-10	1-10

其余文件在 C 栏的续页中列出。 见同族专利附件。

* 引用文件的具体类型:	“T” 在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件
“A” 认为不特别相关的表示了现有技术一般状态的文件	“X” 特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性
“E” 在国际申请日的当天或之后公布的在先申请或专利	“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性
“L” 可能对优先权要求构成怀疑的文件, 或为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件(如具体说明的)	“&” 同族专利的文件
“O” 涉及口头公开、使用、展览或其他方式公开的文件	
“P” 公布日先于国际申请日但迟于所要求的优先权日的文件	

国际检索实际完成的日期 12.10 月 2013 (12.10.2013)	国际检索报告邮寄日期 31.10 月 2013 (31.10.2013)
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ISA/CN 的名称和邮寄地址: 中华人民共和国国家知识产权局 中国北京市海淀区蓟门桥西土城路 6 号 100088 传真号: (86-10)62019451	受权官员 姜雪 电话号码: (86-10) 62411624
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国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2013/079630

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN 102609072 A	25.07.2012	无	
CN 1885977 A	27.12.2006	无	
CN 102508591 A	20.06.2012	US 2012071149 A1	22.03.2012
		US 8311514 B2	13.11.2012
CN 102981766 A	20.03.2013	无	