

## (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  
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- (30) 优先权:  
201210592091.3 2012 年 12 月 31 日 (31.12.2012) CN
- (71) 申请人: 中兴通讯股份有限公司 (ZTE CORPORATION) [CN/CN]; 中国广东省深圳市南山区高新技术产业园科技南路中兴通讯大厦, Guangdong 518057 (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, 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, SA, 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)。

[见续页]

(54) Title: TOUCH SCREEN TERMINAL AND METHOD FOR ACHIEVING CHECK FUNCTION THEREOF

(54) 发明名称: 一种触屏终端及其实现复选功能的方法

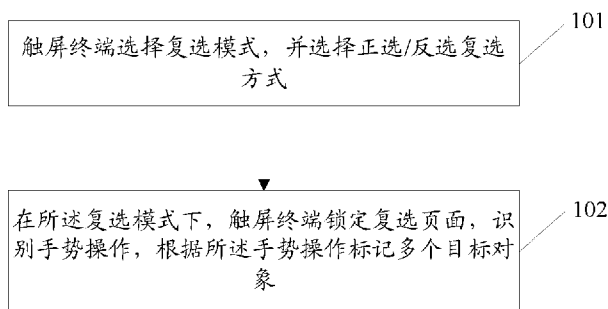


图 1 / Fig.1

101 A TOUCH SCREEN TERMINAL SELECTS A CHECK MODE AND SELECTS A POSITIVE/INVERT CHECK MANNER  
102 IN THE CHECK MODE, THE TOUCH SCREEN TERMINAL LOCKS A CHECK PAGE, RECOGNIZES GESTURE OPERATION AND MARKS MULTIPLE TARGET OBJECTS ACCORDING TO THE GESTURE OPERATION

(57) Abstract: Disclosed is a method for achieving a check function of a touch screen terminal. The method comprises: a touch screen terminal selecting a check mode and selecting a positive/invert check manner; and in the check mode, the touch screen terminal locking a check page, recognizing gesture operation and marking multiple target objects according to the gesture operation. Also disclosed is a touch screen terminal capable of achieving a check function. By means of the touch screen terminal and the method for achieving a check function thereof according to the embodiments of the present invention, check operation time is greatly reduced, check operation efficiency is increased, and user experience is improved.

(57) 摘要: 本发明实施例公开了一种触屏终端实现复选功能的方法, 所述方法包括: 触屏终端选择复选模式, 并选择正选/反选复选方式; 在所述复选模式下, 触屏终端锁定复选页面, 识别手势操作, 根据所述手势操作标记多个目标对象。本发明实施例还同时公开了一种能够实现复选功能的触屏终端。采用本发明实施例的触屏终端及其实现复选功能的方法, 大大减少了复选操作的时间, 提高了复选操作的效率, 提升了用户的体验。

**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))。

— 根据申请人的请求, 在条约第 21 条(2)(a)所规定的期限届满之前进行。

**(88) 国际检索报告公布日期:**

2014 年 2 月 13 日

# INTERNATIONAL SEARCH REPORT

International application No.

**PCT/CN2013/081800**

## A. CLASSIFICATION OF SUBJECT MATTER

G06F 3/0488 (2013.01) 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, H04L, G09G

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)

CNPAT, EPODOC, WPI, CNKI: touch screen, choose, select, simultaneously, state, mode, object, item, track, list, area, gesture, multi, check, multi-select, batch, route

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                | Relevant to claim No.     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PX        | CN 103064626 A (ZTE CORP.), 24 April 2013 (24.04.2013), claims 1-16                                                               | 1-16                      |
| X         | CN 102455873 A (SAMSUNG ELECTRONICS CO., LTD.), 16 May 2012 (16.05.2012), description, paragraphs [0045]-[0050], and figure 3     | 1-2, 6, 9-10, 14          |
| Y         | The same as above                                                                                                                 | 3-4, 5, 7-8, 11-13, 15-16 |
| Y         | CN 101046717 A (LG ELECTRONICS INC.), 03 October 2007 (03.10.2007), description, page 2, paragraphs 2-3, and page 7, and figure 6 | 3-4, 5, 7-8, 11-13, 15-16 |
| X         | CN 102033642 A (LENOVO (BEIJING) CO., LTD.), 27 April 2011 (27.04.2011), description, pages 4-5                                   | 1-2, 6, 9-10, 14          |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

|                                                                                                                                                                         |                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Special categories of cited documents:                                                                                                                                | "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                                              |
| "A" document defining the general state of the art which is not considered to be of particular relevance                                                                | "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                                                                     |
| "E" earlier application or patent but published on or after the international filing date                                                                               | "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 |
| "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) | "&" document member of the same patent family                                                                                                                                                                                                    |
| "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                                                                  |                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                    |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Date of the actual completion of the international search<br>30 October 2013 (30.10.2013)                                                                                                                          | Date of mailing of the international search report<br><b>28 November 2013 (28.11.2013)</b> |
| Name and mailing address of the ISA/CN:<br>State Intellectual Property Office of the P. R. China<br>No. 6, Xitucheng Road, Jimenqiao<br>Haidian District, Beijing 100088, China<br>Facsimile No.: (86-10) 62019451 | Authorized officer<br><b>ZUO, Meng</b><br>Telephone No.: (86-10) <b>62413330</b>           |

# INTERNATIONAL SEARCH REPORT

International application No.

**PCT/CN2013/081800**

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages               | Relevant to claim No. |
|-----------|--------------------------------------------------------------------------------------------------|-----------------------|
| X         | CN 102662555 A (HUAWEI DEVICE CO., LTD.), 12 September 2012 (12.09.2012), description, pages 2-3 | 1-2, 6, 9-10, 14      |
| A         | US 2004119763 A1 (NOKIA CORPORATION), 24 June 2004 (24.06.2004), the whole document              | 1-16                  |

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

**PCT/CN2013/081800**

| Patent Documents referred<br>in the Report | Publication Date | Patent Family    | Publication Date |
|--------------------------------------------|------------------|------------------|------------------|
| CN 103064626 A                             | 24.04.2013       | None             |                  |
| CN 102455873 A                             | 16.05.2012       | EP 2442224 A2    | 18.04.2012       |
|                                            |                  | US 2012096400 A1 | 19.04.2012       |
|                                            |                  | JP 2012089115 A  | 10.05.2012       |
|                                            |                  | KR 20130052743 A | 23.05.2013       |
| CN 101046717 A                             | 03.10.2007       | EP 1840717 A1    | 03.10.2007       |
|                                            |                  | US 2007229471 A1 | 04.10.2007       |
|                                            |                  | JP 2007272904 A  | 18.10.2007       |
|                                            |                  | KR 100672605 B1  | 24.01.2007       |
| CN 102033642 A                             | 27.04.2011       | WO 2011038655 A1 | 07.04.2011       |
|                                            |                  | US 2012188191 A1 | 26.07.2012       |
| CN 102662555 A                             | 12.09.2012       | WO 2013131473 A1 | 12.09.2013       |
| US 2004119763 A1                           | 24.06.2004       | None             |                  |

**A. 主题的分类**

G06F 3/0488 (2013.01) 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, H04L, G09G

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))

CNPAT,EPODOC,WPI,CNKI: touch screen, choose, select, simultaneously, state, mode, object, item, track, list, area, gesture, multi, 触摸屏, 手势, 对象, 复选, 多选, 批量, 多个, 选择, 同时, 列表, 轨迹, 区域, 线路, 路线, 路径, 模式

**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               |
|------|-------------------------------------------------------------------------------------|-----------------------|
| PX   | CN 103064626 A (中兴通讯股份有限公司)<br>24.4 月 2013 (24.04.2013) 权利要求 1-16                   | 1-16                  |
| X    | CN 102455873 A (三星电子株式会社)<br>16.5 月 2012 (16.05.2012) 说明书第[0045]-[0050]段, 图 3       | 1-2,6,9-10,14         |
| Y    | 同上                                                                                  | 3-4,5,7-8,11-13,15-16 |
| Y    | CN 101046717 A (LG 电子株式会社)<br>03.10 月 2007 (03.10.2007) 说明书第 2 页第 2-3 段, 第 7 页, 图 6 | 3-4,5,7-8,11-13,15-16 |
| X    | CN 102033642 A (联想(北京)有限公司)<br>27.4 月 2011 (27.04.2011) 说明书第 4-5 页                  | 1-2,6,9-10,14         |

☒ 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:

“A” 认为不特别相关的表示了现有技术一般状态的文件

“E” 在国际申请日的当天或之后公布的在先申请或专利

“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)

“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

“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

“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

“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

“&amp;” 同族专利的文件

国际检索实际完成的日期

30.10 月 2013 (30.10.2013)

国际检索报告邮寄日期

28.11 月 2013 (28.11.2013)

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

左萌

电话号码: (86-10) 62413330

| C(续). 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       |
| X          | CN 102662555 A (华为终端有限公司)<br>12.9 月 2012 (12.09.2012) 说明书第 2-3 页    | 1-2,6,9-10,14 |
| A          | US 2004119763 A1 (NOKIA CORPORATION)<br>24.6 月 2004 (24.06.2004) 全文 | 1-16          |

# 国际检索报告

关于同族专利的信息

国际申请号

**PCT/CN2013/081800**

| 检索报告中引用的<br>专利文件 | 公布日期       | 同族专利             | 公布日期       |
|------------------|------------|------------------|------------|
| CN 103064626 A   | 24.04.2013 | 无                |            |
| CN 102455873 A   | 16.05.2012 | EP 2442224 A2    | 18.04.2012 |
|                  |            | US 2012096400 A1 | 19.04.2012 |
|                  |            | JP 2012089115 A  | 10.05.2012 |
|                  |            | KR 20130052743 A | 23.05.2013 |
| CN 101046717 A   | 03.10.2007 | EP 1840717 A1    | 03.10.2007 |
|                  |            | US 2007229471 A1 | 04.10.2007 |
|                  |            | JP 2007272904 A  | 18.10.2007 |
|                  |            | KR 100672605 B1  | 24.01.2007 |
| CN 102033642 A   | 27.04.2011 | WO 2011038655 A1 | 07.04.2011 |
|                  |            | US 2012188191 A1 | 26.07.2012 |
| CN 102662555 A   | 12.09.2012 | WO 2013131473 A1 | 12.09.2013 |
| US 2004119763 A1 | 24.06.2004 | 无                |            |