

(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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2013 年 11 月 28 日 (28.11.2013) WIPO | PCT



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WO 2013/174334 A3

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- (22) 国际申请日: 2013 年 7 月 24 日 (24.07.2013)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
201210544235.8 2012 年 12 月 14 日 (14.12.2012) 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, 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)。

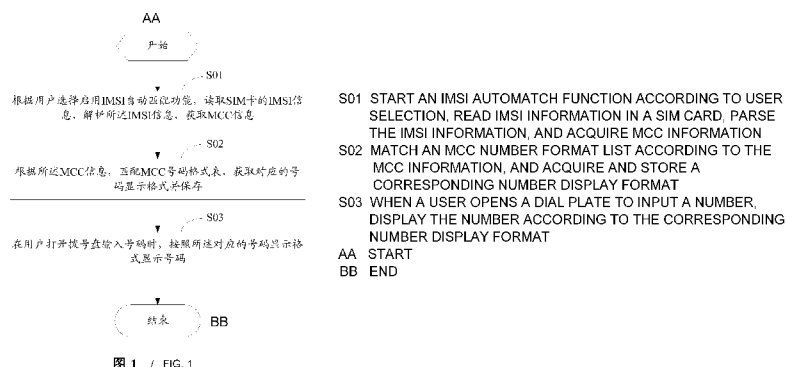
本国际公布:

- 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))。
- 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 1 月 16 日

(54) Title: MOBILE TERMINAL-BASED NUMBER DISPLAY METHOD AND APPARATUS, AND MOBILE TERMINAL

(54) 发明名称: 基于移动终端的号码显示方法、装置及移动终端



(57) Abstract: The present invention provides a mobile terminal-based number display method and apparatus, and a mobile terminal. The method comprises: starting an international mobile subscriber identity (IMSI) automatch function according to user selection, reading IMSI information in a subscriber identity module (SIM) card, parsing the IMSI information, and acquiring mobile country code (MCC) information; matching an MCC number format list according to the MCC information, and acquiring and storing a corresponding number display format; and when a user opens a dial plate to input a number, displaying the number according to the corresponding number display format. The present invention solves the problem of not being adapted to a display style of a mobile terminal, and has the beneficial effects that an accustomed phone number display style of a corresponding country is automatically matched according to a phone number input by a user and the number is displayed according to the number display style, thereby enhancing system performance and improving user experience.

(57) 摘要:

[见续页]

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本发明提供了一种基于移动终端的号码显示方法、装置及移动终端，该方法包括根据用户选择启用国际移动用户识别码 IMSI 自动匹配功能，读取用户身份识别 SIM 卡的 IMSI 信息，解析所述 IMSI 信息，获取移动国家码 MCC 信息；根据所述 MCC 信息，匹配 MCC 号码格式表，获取对应的号码显示格式并保存；在用户打开拨号盘输入号码时，按照所述对应的号码显示格式显示号码。本发明解决了移动终端显示风格不习惯的问题，具有根据用户输入的电话号码自动匹配对应国家习惯的电话号码显示风格并按照所述号码显示风格进行号码显示的有益效果，提高了系统性能，提升了用户体验。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2013/079990

A. CLASSIFICATION OF SUBJECT MATTER

See the 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: H04W; H04M; H04Q; H04L

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, CNKI, WPI, EPODOC: district, IMSI, MCC, number, display, country, state, international mobile subscriber identity, mobile country code, format, style

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 103037058 A (ZTE CORP.), 10 April 2013 (10.04.2013), claims 1-11	1-11
X	CN 1653788 A (NTT DOCOMO INC.), 10 August 2005 (10.08.2005), description, page 7, paragraph 3 to page 15, paragraph 2, and abstract	1-11
A	CN 1968465 A (HUAWEI TECHNOLOGIES CO., LTD.), 23 May 2007 (23.05.2007), the whole document	1-11
A	CN 101534499 A (CHINA MOBILE COMMUNICATIONS CORPORATION), 16 September 2009 (16.09.2009), the whole document	1-11
A	CN 102769688 A (TIANYI TELECOM TERMINALS COMPANY LIMITED), 07 November 2012 (07.11.2012), the whole document	1-11

☐ 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 08 October 2013 (08.10.2013)	Date of mailing of the international search report 31 October 2013 (31.10.2013)
Name and mailing address of the ISA/CN: State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No.: (86-10) 62019451	Authorized officer JIN, Jing Telephone No.: (86-10) 62413445

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2013/079990

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 103037058 A	10.04.2013	None	
CN 1653788 A	10.08.2005	WO 03096659 A1	20.11.2003
		JP 2003333165 A	21.11.2003
		EP 1505805 A1	09.02.2005
		US 2005176411 A1	11.08.2005
CN 1968465 A	23.05.2007	None	
CN 101534499 A	16.09.2009	None	
CN 102769688 A	07.11.2012	None	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2013/079990

CONTINUATION: CLASSIFICATION OF SUBJECT MATTER

H04W 88/02 (2009.01) i

H04M 1/56 (2006.01) i

国际检索报告

国际申请号
PCT/CN2013/079990

A. 主题的分类

参见附加页

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: H04W; H04M; H04Q; H04L

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, CNKI, WPI, EPODOC: 号码, 显示, 国家, 地区, 国际移动用户识别码, 国际移动用户标识, 格式, 风格, IMSI, MCC, number, display, country, state, international mobile subscriber identity, mobile country code, format, style

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	CN103037058A (中兴通讯股份有限公司) 10. 4 月 2013 (10.04.2013) 权利要求 1-11	1-11
X	CN1653788A (株式会社 NTT 都科摩) 10. 8 月 2005 (10.08.2005) 说明书第 7 页第 3 段至第 15 页第 2 段、摘要	1-11
A	CN1968465A (华为技术有限公司) 23. 5 月 2007 (23.05.2007) 全文	1-11
A	CN101534499A (中国移动通信集团公司) 16. 9 月 2009 (16.09.2009) 全文	1-11
A	CN102769688A (天翼电信终端有限公司) 07. 11 月 2012 (07.11.2012) 全文	1-11

☐ 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

“&” 同族专利的文件

国际检索实际完成的日期
08.10 月 2013 (08.10.2013)

国际检索报告邮寄日期
31.10 月 2013 (31.10.2013)

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

靳晶
电话号码: (86-10) 62413445

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2013/079990

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN103037058A	10.04.2013	无	
CN1653788A	10.08.2005	WO03096659A1	20.11.2003
		JP2003333165A	21.11.2003
		EP1505805A1	09.02.2005
		US2005176411A1	11.08.2005
CN1968465A	23.05.2007	无	
CN101534499A	16.09.2009	无	
CN102769688A	07.11.2012	无	

续：主题的分类

H04W 88/02 (2009.01) i

H04M 1/56 (2006.01) i