

(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



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- (30) 优先权:  
201310033741.5 2013年1月29日 (29.01.2013) CN
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OFFICE); 中国北京市海淀区海淀南路21号中关村知识产权大厦B座2层, Beijing 100080 (CN)。

- (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, 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: QUICK NETWORK FINDING METHOD, SYSTEM AND MOBILE TERMINAL

(54) 发明名称: 一种快速找网的方法、系统和移动终端

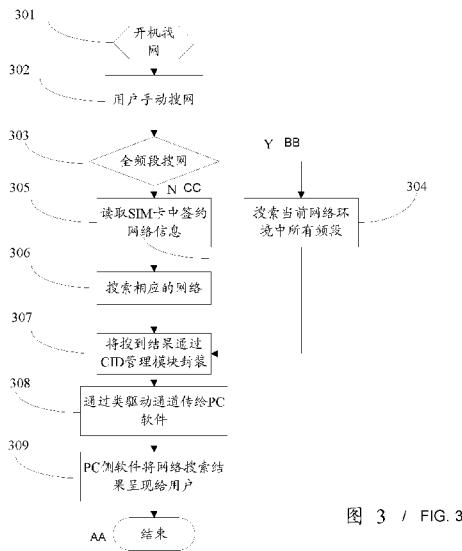


图 3 / FIG. 3

301 START UP TO FIND A NETWORK  
 302 A USER MANUALLY SEARCHES A NETWORK  
 303 FULL-BAND NETWORK SEARCHING  
 304 SEARCH ALL BANDS IN THE CURRENT NETWORK ENVIRONMENT  
 305 READ SUBSCRIPTION NETWORK INFORMATION IN A SIM CARD  
 306 SEARCH FOR A CORRESPONDING NETWORK  
 307 ENCAPSULATE A FOUND RESULT THROUGH A CID MANAGEMENT MODULE  
 308 TRANSMIT TO PC SOFTWARE THROUGH A DRIVE-LIKE CHANNEL  
 309 PC SIDE SOFTWARE PRESENTS A NETWORK SEARCHING RESULT TO THE USER  
 AA END  
 BB YES  
 CC NO

(57) Abstract: The present invention relates to the field of mobile communications. Disclosed are a quick network finding method, system and mobile terminal. The method comprises: a personal computer (PC) with a Windows 8 system generating, according to a user request, a network searching instruction for searching for a network in full band or limited band, and sending the network searching instruction to a mobile terminal for surfing the Internet; the mobile terminal performing network searching in full band or limited band according to the network searching instruction; in the case of full-band network searching, the mobile terminal performing network searching in all supported bands and sending a network searching result to the PC; and in the case of limited-band network searching, the mobile terminal reading subscribed network information in a subscriber identity module (SIM) card and subscribed with an operator of the SIM card, searching for a corresponding network according to the subscribed network information and sending a network searching result to the PC. By means of the present invention, the mobile terminal can quickly find a network and has a strong real-time property.

(57) 摘要:

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WO 2013/189339 A3

**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

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本发明公开了一种快速找网的方法、系统和移动终端, 涉及移动通讯领域, 包括: 具有窗口 Windows 8 系统的个人计算机 PC 根据用户请求, 生成用于全频段搜网或限制频段搜网的搜网指令, 并发送至用于上网的移动终端; 所述移动终端按照所述搜网指令, 进行全频段搜网或限制频段搜网; 若进行全频段搜网, 则所述移动终端对其支持的所有频段进行网络搜索, 并将网络搜索结果发送至所述 PC; 若进行限制频段搜网, 则所述移动终端读取客户识别模块 SIM 卡中的与所述 SIM 卡的运营商有签约的签约网络信息, 并按照所述签约网络信息搜索相应网络, 将网络搜索结果发送至所述 PC。通过本发明, 移动终端能够快速找网, 实时性强。

# INTERNATIONAL SEARCH REPORT

International application No.

**PCT/CN2013/081592**

## 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; H04Q; H04B; G06F

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)

WPI; EPODOC; CNPAT; CNKI: mobile terminal, mobile phone, web search, frequency band, TERMINAL, MOBILE, SEARCH, NETWORK, PC, COMPUTER, NOTEBOOK, FREQUENCY, PLMN, CARD, COMMAND, MESSAGE, INFORMATION

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 103068009 A (ZTE CORP.), 24 April 2013 (24.04.2013), the whole document	1-10
Y	CN 1949907 A (HUAWEI TECHNOLOGIES CO., LTD.), 18 April 2007 (18.04.2007), description, page 1, line 4, page 2, line 26, page 5, line 9, and page 8, line 14, and figures 1 and 2	1-10
Y	CN 101296454 A (ZTE CORP.), 29 October 2008 (29.10.2008), description, paragraphs [0004]-[0032], and figures 1-3	5, 10
A		1-4, 6-9
Y	CN 102546047 A (XI'AN LONGFEI SOFTWARE CO., LTD.), 04 July 2012 (04.07.2012), description, paragraphs [0004]-[0032], and figures 1-3	1-4, 6-9
A		5, 10
A	CN 102264126 A (ZTE CORP.), 30 November 2011 (30.11.2011), the whole document	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>“&amp;” document member of the same patent family</p>
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Date of the actual completion of the international search  
**28 October 2013 (28.10.2013)**

Date of mailing of the international search report  
**21 November 2013 (21.11.2013)**

Name and mailing address of the ISA/CN:  
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Haidian District, Beijing 100088, China  
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

**PCT/CN2013/081592**

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 103068009 A	24.04.2013	None	
CN 1949907 A	18.04.2007	None	
CN 101296454 A	29.10.2008	None	
CN 102546047 A	04.07.2012	None	
CN 102264126 A	30.11.2011	None	

# INTERNATIONAL SEARCH REPORT

International application No.

**PCT/CN2013/081592**

CONTINUATION OF SECOND SHEET

## A. CLASSIFICATION OF SUBJECT MATTER

H04W 48/18 (2009.01) i

H04W 88/02 (2009.01) n

According to International Patent Classification (IPC) or to both national classification and IPC

<b>A. 主题的分类</b>		
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>B. 检索领域</b>		
检索的最低限度文献(标明分类系统和分类号)		
IPC: H04W; H04Q; H04B; G06F		
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))		
WPI;EPODOC;CNPAT;CNKI: 移动终端, 手机, 搜网, 找网, 搜索, 电脑, 计算机, PC, 笔记本, 频率, 频段, 卡, 指令, 命令, 消息, 信息, TERMINAL, MOBILE, SEARCH, NETWORK, PC, COMPUTER, NOTEBOOK, FREQUENCY, PLMN, CARD, COMMAND, MESSAGE, INFORMATION		
<b>C. 相关文件</b>		
类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
PX	CN 103068009 A (中兴通讯股份有限公司) 24. 4 月 2013 (24. 04. 2013) 全文	1-10
Y	CN 1949907 A (华为技术有限公司) 18. 4 月 2007(18. 04. 2007) 说明书第 1 页第 4 行-第 2 页第 26 行, 第 5 页第 9 行-第 8 页第 14 行, 附图 1, 2	1-10
Y	CN 101296454 A (中兴通讯股份有限公司) 29. 10 月 2008(29. 10. 2008)	5, 10
A	说明书第[0004]段-第[0032]段, 附图 1-3	1-4, 6-9
Y	CN 102546047A (西安龙飞软件有限公司) 04. 7 月 2012(04. 07. 2012)	1-4, 6-9
A	说明书第[0004]段-第[0032]段, 附图 1-3	5, 10
A	CN 102264126 A(中兴通讯股份有限公司) 30. 11 月 2011 (30. 11. 2011) 全文	1-10
<input type="checkbox"/> 其余文件在 C 栏的续页中列出。 <input checked="" type="checkbox"/> 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 <b>28.10 月 2013(28.10.2013)</b>	国际检索报告邮寄日期 <b>21.11 月 2013 (21.11.2013)</b>	
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  <b>郭风顺</b>  电话号码: (86-10) <b>62415574</b>	

国际检索报告  
关于同族专利的信息

国际申请号  
**PCT/CN2013/081592**

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 103068009 A	24. 04. 2013	无	
CN 1949907 A	18. 04. 2007	无	
CN 101296454 A	29. 10. 2008	无	
CN 102546047 A	04. 07. 2012	无	
CN 102264126 A	30. 11. 2011	无	

续：第 2 页

**A. 主题的分类**

H04W 48/18 (2009.01) i

H04W 88/02 (2009.01) n

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