

(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:
201210479220.8 2012 年 11 月 22 日 (22.11.2012) CN
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- (74) 代理人: 北京安信方达知识产权代理有限公司 (AFD CHINA INTELLECTUAL PROPERTY LAW OFFICE); 中国北京市海淀区学清路 8 号 B 座 1601A, Beijing 100192 (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)。

根据细则 4.17 的声明:

- 关于申请人有权申请并被授予专利(细则 4.17(ii))
- 发明人资格(细则 4.17(iv))

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: METHOD FOR TERMINAL TO CONNECT TO WIRELESS LOCAL AREA NETWORK, AND TERMINAL

(54) 发明名称: 一种终端连接无线局域网的方法和终端

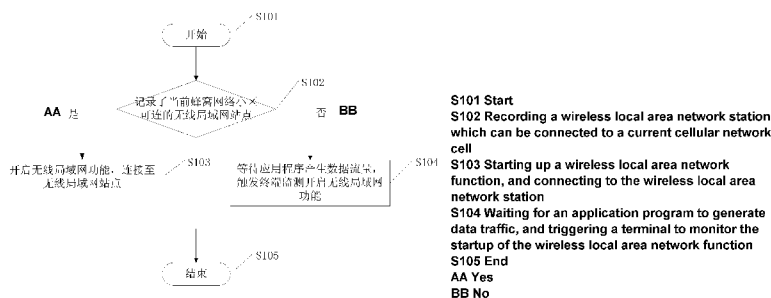


图 1/FIG. 1

(57) Abstract: A method for a terminal to connect to a wireless local area network, and a terminal. The method comprises: searching for a wireless local area network station which can be connected to a current cellular network cell from the correlation between the recorded cellular network cells and the wireless local area network stations which can be connected to the cellular network cell; and if the wireless local area network station which can be connected is discovered, starting up a wireless local area network function, and connecting to the wireless local area network station. The abovementioned technical solution avoids an unnecessary hotspot scanning operation existing in the process of repeatedly switching a terminal from a cellular network cell to a wireless local area network station.

(57) 摘要: 一种终端连接无线局域网的方法和终端, 该方法包括: 当从记录的蜂窝网络小区与该蜂窝网络小区可连无线局域网站点的对应关系中查找当前蜂窝网络小区可连的无线局域网站点; 若找到可连的无线局域网站点, 开启无线局域网功能, 连接至该无线局域网站点。上述技术方案避免了终端从蜂窝网络小区重复切换到无线局域网站点中存在的不必要的热点扫描操作。

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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 2 月 13 日
的期限届满之前进行。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2013/081547

A. CLASSIFICATION OF SUBJECT MATTER

H04W 76/02 (2009.01) 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: H04L; H04W

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, EPODOC, WPI: cellular, Wireless Local Area Network, connect, automatic, cell, mobile, wireless, map+, table, WLAN, wi-fi, wifi, relation, UE, terminal?, open, turn On, switch??

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 102984812 A (ZTE CORP.), 20 March 2013 (20.03.2013), see claims 1-8	1-8
PX	CN 103024844 A (ZTE CORP.), 03 April 2013 (03.04.2013), see description, paragraphs [0025]-[0037]	1-8
PX	CN 102802224 A (DONGGUAN YULONG COMMUNICATION TECHNOLOGY CO., LTD. et al.), 28 November 2012 (28.11.2012), see description, paragraphs [0036]-[0079], and figures 1-2, 3A and 3B	1-8
X	CN 102448187 A (HUAWEI DEVICE CO., LTD.), 09 May 2012 (09.05.2012), see description, paragraphs [0018]-[0048], and figures 1-3	1-3, 5-7
Y		4, 8
Y	CN 102271375 A (CHINA MOBILE GROUP FUJIAN COMPANY LIMITED), 07 December 2011 (07.12.2011), see description, paragraphs [0009]-[0029]	4, 8

☒ 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	
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"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
"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	"&" document member of the same patent family

Date of the actual completion of the international search 01 November 2013 (01.11.2013)	Date of mailing of the international search report 21 November 2013 (21.11.2013)
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 CHEN, Juan Telephone No.: (86-10) 62413202

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2013/081547**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 102711156 A (YULONG COMPUTER TELECOMMUNICATION SCIENTIFIC (SHENZHEN) CO., LTD.), 03 October 2012 (03.10.2012), see the whole document	1-8
A	CN 102711164 A (SHANGHAI JIAO TONG UNIVERSITY WUXI RESEARCH INSTITUTE et al.), 03 October 2012 (03.10.2012), see the whole document	1-8

International application No.
PCT/CN2013/081547

Form PCT/ISA/210 (patent family annex) (July 2009)

A. 主题的分类		
H04W 76/02 (2009.01) 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:H04L; H04W		
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, EPODOC, WPI: 蜂窝, 移动, 无线局域网, 关系, 表, 切换, 连接, 开启, 打开, 自动, cell, mobile, wireless, map+, table, WLAN, wi-fi, wifi, relation, UE, terminal?, open, turn on, switch??		
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 102984812 A (中兴通讯股份有限公司) 20.3 月 2013 (20.03.2013) 参见权利要求 1-8	1-8
PX	CN 103024844 A (中兴通讯股份有限公司) 03.4 月 2013 (03.04.2013) 参见说明书第[0025]-[0037]段	1-8
PX	CN 102802224 A (东莞宇龙通信科技有限公司等) 28.11 月 2012 (28.11.2012) 参见说明书第[0036]-[0079]段、附图 1-2, 3A, 3B	1-8
X	CN 102448187 A (华为终端有限公司) 09.5 月 2012 (09.05.2012) 参见说明书第[0018]-[0048]段, 附图 1-3	1-3, 5-7
Y		4, 8
Y	CN 102271375 A (中国移动通信集团福建有限公司) 07.12 月 2011 (07.12.2011) 参见说明书第[0009]-[0029]段	4, 8
☒ 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 01.11 月 2013 (01.11.2013)		国际检索报告邮寄日期 21.11 月 2013 (21.11.2013)
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 陈娟 电话号码: (86-10) 62413202

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
A	CN 102711156 A (宇龙计算机通信科技(深圳)有限公司) 03.10 月 2012 (03.10.2012) 参见全文	1-8
A	CN 102711164 A (上海交通大学无锡研究院等) 03.10 月 2012 (03.10.2012) 参见全文	1-8

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2013/081547

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 102984812 A	20.03.2013	无	
CN 103024844 A	03.04.2013	无	
CN 102802224 A	28.11.2012	无	
CN 102448187 A	09.05.2012	WO2013060294A	02.05.2013
CN 102271375 A	07.12.2011	无	
CN 102711156 A	03.10.2012	无	
CN 102711164 A	03.10.2012	无	