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2012 年 10 月 11 日 (11.10.2012)



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WO 2012/136163 A3

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- (26) 公布语言: 中文
- (30) 优先权:
201110299845.1 2011 年 10 月 8 日 (08.10.2011) CN
- (71) 申请人 (对除美国外的所有指定国): **华为终端有限公司 (HUAWEI DEVICE CO., LTD.)** [CN/CN]; 中国广东省深圳市龙岗区坂田华为基地 B 区 2 号楼, Guangdong 518129 (CN)。
- (72) 发明人: 及
- (75) 发明人/申请人 (仅对美国): **丁吉 (DING, Ji)** [CN/CN]; 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (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, 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, KM, 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, 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, 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))。

[见续页]

(54) Title: WIRELESS LOCAL AREA NETWORK AUTHENTICATION METHOD AND MOBILE TERMINAL

(54) 发明名称: 一种无线局域网络认证方法及移动终端

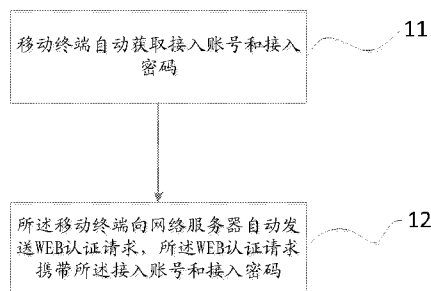


图 1 / Fig. 1

11 AUTOMATIC ACQUISITION BY THE MOBILE TERMINAL OF THE ACCESS ACCOUNT AND OF THE ACCESS PASSWORD
12 AUTOMATIC TRANSMISSION OF THE WEB AUTHENTICATION REQUEST BY THE MOBILE TERMINAL TO THE NETWORK SERVER, THE WEB AUTHENTICATION REQUEST HAVING ATTACHED THERETO THE ACCESS ACCOUNT AND THE ACCESS PASSWORD

(57) Abstract: Disclosed is a wireless local area network authentication method comprising: a mobile terminal automatically acquiring an access account and an access password; and the mobile terminal automatically transmitting a WEB authentication request to a network server, the WEB authentication request having attached thereto the access account and the access password. Also disclosed is a corresponding mobile terminal. Employment of the disclosed wireless local area network authentication method and mobile terminal allows the mobile terminal to complete automatically the WEB authentication of the wireless local area network, obviates the need for a user to input the account and password, and obviates the need for the WEB authentication interface to be displayed to the user, thus avoiding complicated authentication operations, and improving user experience.

(57) 摘要: 本发明实施例公开了一种无线局域网络认证方法, 包括: 移动终端自动获取接入账号和接入密码; 所述移动终端向网络服务器自动发送 WEB 认证请求, 所述 WEB 认证请求携带所述接入账号和接入密码。本发明实施例还公开了相应的移动终端。通过应用本发明公开的无线局域网络认证方法和移动终端, 能够使得移动终端自动完成无线局域网络的 WEB 认证, 而无需用户输入账号密码, 也无需向用户显示 WEB 认证界面, 从而避免了繁复的认证操作, 提升了用户体验。

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- 在修改权利要求的期限届满之前进行，在收到该 (88) 国际检索报告公布日期: 2012 年 11 月 29 日
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。

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2012/076775

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: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,CNXTX,WPLEPODOC: DING Ji, HUAWEI, (no input) or (not input) or (needless input) or (no import) or (not import) or (needless import), (no display) or (not display) or (needless display) or (no show) or (not show) or (needless show) [in chinese words], authenticate or authenticating or authentication or authorization or permission, name or account, password or key, (wireless or mobile or cellular) w (terminal or phone or apparatus or device or user), auto, ask or require, SM or (short w message) or text

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN102378175A (HUAWEI DEVICE CO., LTD.) 14 Mar. 2012(14.03.2012) see claims1-11, description, paragraphs [0026]-[0137]	1-11
X	CN101895831A (CHINA TELECOM CORP., LTD.) 24 Nov. 2010(24.11.2010) description, paragraphs [0002], [0013],[0023]-[0024],[0026]-[0049],[0070], figure1 - 4	1-11
A	CN1960280A (WISTRON CORP.) 09 May 2007(09.05.2007) see the whole document	1-11
A	US2011/0022841A1 (VONAGE NETWORK LLC) 27 Jan. 2011(27.01.2011) see 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 09 Aug. 2012(09.08.2012)	Date of mailing of the international search report 06 Sep. 2012(06.09.2012)
Name and mailing address of the ISA 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 NING, Bo Telephone No. (86-10)62413551

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/CN2012/076775

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN102378175A	14.03.2012	NONE	
CN101895831A	24.11.2010	NONE	
CN1960280A	09.05.2007	NONE	
US2011/0022841A1	27.01.2011	NONE	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/076775

Continuation of : **A. CLASSIFICATION OF SUBJECT MATTER**

H04W12/06(2009.01)i

H04W84/12(2009.01)i

国际检索报告

国际申请号
PCT/CN2012/076775

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: 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,CNTEXT,WPI,EPODOC: 丁吉, 认证+鉴权+授权+权限, 华为, 不输入+不需输入+无需输入+无需用户输入+无需 U E 输入+不需用户输入, 不需显示+无需显示+不显示, 认证信息+账号+密码+账户名+口令, 无线终端 or 移动终端 or 手机 or 移动电话 or 平板电脑, 自动, ask or require, name or account, password or key, authenticate or authenticating or authentication, SM or (short w message) or text

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	CN102378175A (华为终端有限公司) 14.3 月 2012 (14.03.2012) 权利要求 1-11, 说明书[0026]-[0137]段	1-11
X	CN101895831A (中国电信股份有限公司) 24.11 月 2010 (14.11.2010) 说明书[0002],[0013],[0023]-[0024],[0026]-[0049],[0070]段、图 1-4	1-11
A	CN1960280A (纬创资通股份有限公司) 09.5 月 2007 (09.05.2007) 全文	1-11
A	US2011/0022841A1 (VONAGE NETWORK LLC) 27.1 月 2011 (27.01.2011) 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
09.8 月 2012 (09.08.2012)

国际检索报告邮寄日期
06.9 月 2012 (06.09.2012)

ISA/CN 的名称和邮寄地址:
中华人民共和国国家知识产权局
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传真号: (86-10)62019451

受权官员

宁波
电话号码: (86-10) **62413551**

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2012/076775

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN102378175A	14.03.2012	无	
CN101895831A	14.11.2010	无	
CN1960280A	09.05.2007	无	
US2011/0022841A1	27.01.2011	无	

续: A. 主题的分类

H04W12/06(2009.01)i

H04W84/12(2009.01)i