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- (26) 公布语言: 中文
- (71) 申请人 (对除美国外的所有指定国): **华为技术有限公司 (HUAWEI TECHNOLOGIES CO., LTD.)** [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)。
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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, 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, MD, 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))。
- 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: 2013年2月21日

(54) Title: METHOD AND APPARATUS FOR HANDLING VOICE CALLS

(54) 发明名称: 一种处理语音呼叫的方法及装置

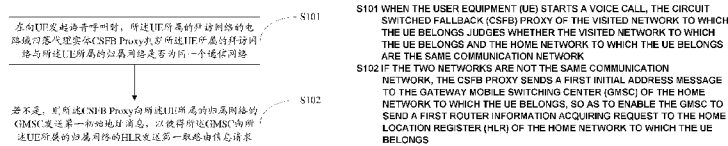


图1 / Fig. 1

(57) Abstract: The present invention relates to the communication technical field, and more particularly to a method and apparatus for handling voice calls. The embodiment of the present invention provides a method for handling voice calls, which comprises the following steps: when determining that the visited network to which the User Equipment (UE) belongs and the home network to which the UE belongs are not the same communication network, the Circuit Switched Fallback (CSFB) Proxy of the visited network to which the UE belongs sends a first initial address message to the Gateway Mobile Switching Center (GMSC) of the home network to which the UE belongs, so as to enable the GMSC to send a first router information acquisition request to the Home Location Register (HLR) of the home network to which the UE belongs. With the method provided in the embodiments of the invention, when the visited network to which the UE belongs and the home network to which the UE belongs are not on the same communication network, the CSFB Proxy can send the first router information acquisition request to the HLR through GMSC, thus ensuring the normal continuation of a voice call.

(57) 摘要: 本发明涉及通信技术领域, 尤其涉及一种处理语音呼叫的方法及装置。本发明实施例提供一种处理语音呼叫的方法, UE所属的拜访网络的CSFB Proxy判断所述UE所属的拜访网络与所述UE所属的归属网络不是同一个通信网络时, 向所述UE所属的归属网络的GMSC发送第一初始地址消息, 以使得所述GMSC可以向所述UE所属的归属网络的HLR发送第一取路由信息请求。通过本发明实施例提供的方法, 在UE所属的拜访网络与所述UE所属的归属网络不是同一个通信网络时, 所述CSFB Proxy能够通过所述GMSC向所述HLR发送第一取路由信息请求, 从而能够保证语音呼叫的正常接续。

WO 2012/103825 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2012/072321

A. CLASSIFICATION OF SUBJECT MATTER		
H04W 8/00 (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: H04W, 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)		
CNABS, CNTXT, CNKI, VEN: visit, home, network, different, roam, voice, call, service, provider		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN101047971A (HUAWEI TECHNOLOGIES CO., LTD.) 03 October 2007(03.10.2007) the description page 5 line 6 to page 7 line 7, figure 1	1-3,8-10
A	CN1516429A (HUAWEI TECHNOLOGIES CO., LTD.) 28 July 2004(28.07.2004) the whole document	1-13
A	CN101203036A (HUAWEI TECHNOLOGIES CO., LTD.) 18 June 2008(18.06.2008) the whole document	1-13
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 13 December 2012(13.12.2012)	Date of mailing of the international search report 20 December 2012(20.12.2012)	
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 SHANG, Qin Telephone No. (86-10)62411460	

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2012/072321

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN101047971A	03.10.2007	WO2007115480A1	18.10.2007
		CN101047971B	14.04.2010
CN1516429A	28.07.2004	CN100452913C	14.01.2009
CN101203036A	18.06.2008	None	

A. 主题的分类		
H04W 8/00 (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: H04W, 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))		
CNABS, CNTXT, CNKI: 拜访、归属、网络、不同、不相同、漫游、运营商、语音、通话、呼叫		
VEN: visit, home, network, different, roam, voice, call		
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
X	CN101047971A (华为技术有限公司) 03.10月 2007(03.10.2007) 说明书第5页第6行到第7页第7行, 图1	1-3,8-10
A	CN1516429A (华为技术有限公司) 28.7月 2004(28.07.2004) 全文	1-13
A	CN101203036A (华为技术有限公司) 18.6月 2008(18.06.2008) 全文	1-13
<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: “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 13.12 月 2012(13.12.2012)		国际检索报告邮寄日期 20.12 月 2012 (20.12.2012)
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国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2012/072321

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN101047971A	03.10.2007	WO2007115480A1	18.10.2007
		CN101047971B	14.04.2010
CN1516429A	28.07.2004	CN100452913C	14.01.2009
CN101203036A	18.06.2008	无	