

(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



(10) 国际公布号
WO 2024/131512 A1

(43) 国际公布日
2024 年 6 月 27 日 (27.06.2024)

(51) 国际专利分类号:
H04W 36/04 (2009.01)

(21) 国际申请号: PCT/CN2023/136154

(22) 国际申请日: 2023 年 12 月 4 日 (04.12.2023)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202211659074.7 2022 年 12 月 22 日 (22.12.2022) CN

(71) 申请人: 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)。

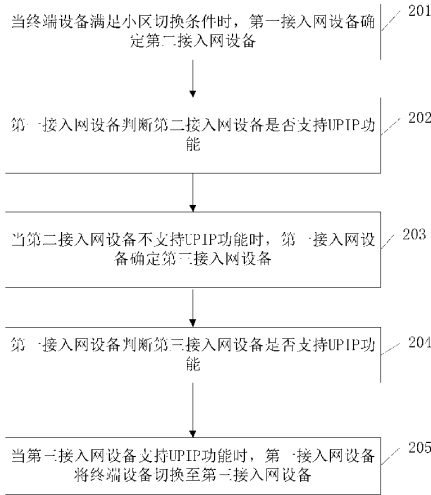
(72) 发明人: 蒋文欢(JIANG, Wenhuan); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 吴联芳(WU, Lianfang); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。 顾晨(GU, Chen); 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN)。

(74) 代理人: 深圳市深佳知识产权代理事务所(普通合伙) (SHENPAT INTELLECTUAL PROPERTY AGENCY); 中国广东省深圳市罗湖区南湖街道春风路庐山大厦 B 座 18C2、18D、18E、18E2, Guangdong 518001 (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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ,

(54) Title: CELL HANDOVER METHOD AND APPARATUS

(54) 发明名称: 一种小区切换方法以及装置



201 WHEN A TERMINAL DEVICE SATISFIES A CELL HANDOVER CONDITION, A FIRST ACCESS NETWORK DEVICE DETERMINES A SECOND ACCESS NETWORK DEVICE
202 THE FIRST ACCESS NETWORK DEVICE DETERMINES WHETHER THE SECOND ACCESS NETWORK DEVICE SUPPORTS A UPIP FUNCTION
203 WHEN THE SECOND ACCESS NETWORK DEVICE DOES NOT SUPPORT THE UPIP FUNCTION, THE FIRST ACCESS NETWORK DEVICE DETERMINES A THIRD ACCESS NETWORK DEVICE
204 THE FIRST ACCESS NETWORK DEVICE DETERMINES WHETHER THE THIRD ACCESS NETWORK DEVICE SUPPORTS THE UPIP FUNCTION
205 WHEN THE THIRD ACCESS NETWORK DEVICE SUPPORTS THE UPIP FUNCTION, THE FIRST ACCESS NETWORK DEVICE HANDS OVER THE TERMINAL DEVICE TO THE THIRD ACCESS NETWORK DEVICE

图 2

(57) Abstract: The present application discloses a cell handover method and apparatus. The method comprises: when determining that a terminal device carrying a UPIP function requires cell handover, and when determining a second access network device having the highest signal switching priority within a preset range, a first access network device first determining whether the second access network device supports the UPIP function; when the second access network device does not support the UPIP function, re-selecting a third access network device, among access network devices supporting the UPIP function within the preset range, which has a priority lower than that of the second access network device as a handover target; and then handing over the terminal device to the third access network device. The third access network device supports the UPIP function, and thus can identify a protocol information element, and the signal quality of the third access network device is higher than that of the first access network device, so that the network

[见续页]

WO 2024/131512 A1

IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, 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, ME, 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:
— 关于申请人有权要求在先申请的优先权(细则4.17(iii))

本国际公布:
— 包括国际检索报告(条约第21条(3))。

performance can be improved.

(57) 摘要: 本申请公开了一种小区切换方法以及装置, 该方法包括: 第一接入网设备确定有UPIP功能的承载的终端设备需要切换小区时, 在确定预设范围内信号切换优先级最高的第二接入网设备时, 先确定该第二接入网设备是否支持UPIP功能, 当该第二接入网设备不支持UPIP功能时, 重新选择在预设范围内支持UPIP功能的接入网设备中优先级低于该第二接入网设备的第三接入网设备作为切换目标, 再将终端设备切换到该第三接入网设备。由于第三接入网设备支持UPIP功能, 可以识别协议信元, 且该第三接入网设备的信号质量高于第一接入网设备, 则可以提高网络性能。