

(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

(43) 国际公布日
2025 年 3 月 20 日 (20.03.2025)



(10) 国际公布号
WO 2025/055823 A1

(51) 国际专利分类号:
H04W 28/12 (2009.01)

(21) 国际申请号: PCT/CN2024/117341

(22) 国际申请日: 2024 年 9 月 6 日 (06.09.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202311187379.7 2023年9月13日 (13.09.2023) 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: 范强 (FAN, Qiang); 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: 广州三环专利商标代理有限公司 (SCIHEAD IP LAW FIRM); 中国广东省广州市越秀区先烈中路80号汇华商贸大厦1508室, Guangdong 510070 (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, 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,

(54) Title: DATA PROCESSING METHOD AND APPARATUS

(54) 发明名称: 数据处理方法及装置

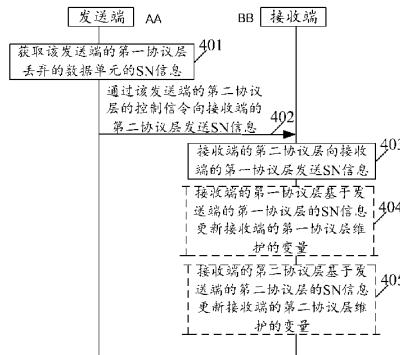


图 4

- AA Sending end
BB Receiving end
401 Acquire SN information of a data unit discarded by a first protocol layer of the sending end
402 Send the SN information to a second protocol layer of the receiving end by means of control signaling of a second protocol layer of the sending end
403 The second protocol layer of the receiving end sends the SN information of a first protocol layer of the receiving end
404 On the basis of the SN information of the first protocol layer of the sending end, the first protocol layer of the receiving end updates a variable maintained by the first protocol layer of the receiving end
405 On the basis of the SN information of the second protocol layer of the sending end, the second protocol layer of the receiving end updates a variable maintained by the second protocol layer of the receiving end

(57) Abstract: The present application provides a data processing method and apparatus, applied to the technical field of communications. The method comprises: a sending end acquires first SN information of a data unit discarded by a first protocol layer of the sending end, and sends the first SN information to a second protocol layer of a receiving end by means of control signaling of a second protocol layer of the sending end; and correspondingly, after acquiring the first SN information by means of the control signaling from the second protocol layer of the sending end, the second protocol layer of the receiving end can deliver the first SN information to a

[见续页]

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)。

本国际公布:
— 包括国际检索报告(条约第21条(3))。

first protocol layer of the receiving end. The method can effectively shorten the end-to-end transmission delay of service data.

(57) 摘要: 本申请提供一种数据处理方法及装置，应用于通信技术领域。该方法包括：发送端获取其第一协议层丢弃的数据单元的第一SN 信息，并通过其第二协议层的控制信令向接收端的第二协议层发送该第一SN 信息。对应的，接收端的第二协议层通过来自发送端的第二协议层的控制信令获取第一SN 信息之后，可以将该第一SN 信息递交给接收端的第一协议层。该方法可以有效降低业务数据端到端的传输时延。