

(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 2022/105479 A1

(43) 国际公布日
2022 年 5 月 27 日 (27.05.2022)

(51) 国际专利分类号:
H04L 29/06 (2006.01)

(21) 国际申请号: PCT/CN2021/123278

(22) 国际申请日: 2021 年 10 月 12 日 (12.10.2021)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202011308606.3 2020 年 11 月 20 日 (20.11.2020) CN

(71) 申请人: 腾讯科技(深圳)有限公司 (TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED) [CN/CN]; 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。

(72) 发明人: 吕俊 (LV, Jun); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong

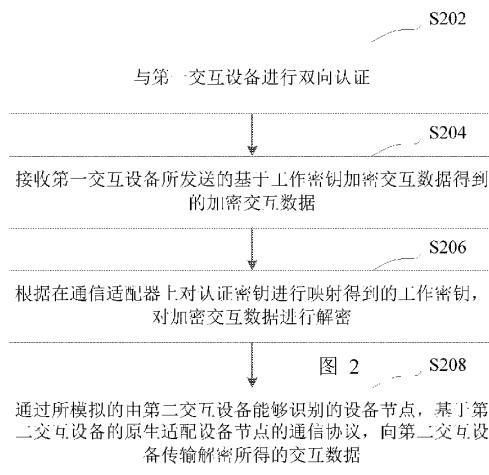
518057 (CN)。 刘文君 (LIU, Wenjun); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。 郭润增 (GUO, Runzeng); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。

(74) 代理人: 广州华进联合专利商标代理有限公司 (ADVANCE CHINA IP LAW OFFICE); 中国广东省广州市天河区珠江东路 6 号 4501 房 (部位: 自编 01-03 和 08-12 单元) (仅限办公用途), Guangdong 510623 (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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX,

(54) Title: DATA TRANSMISSION METHOD AND APPARATUS, SYSTEM, COMPUTER DEVICE AND STORAGE MEDIUM

(54) 发明名称: 数据传输方法、装置、系统、计算机设备和存储介质



S202 Perform bidirectional authentication with a first interaction device

S204 Receive encrypted interaction data which is sent by the first interaction device and obtained by encrypting interaction data on the basis of a working key

S206 According to the working key obtained by performing mapping of the authentication key on a communication adapter, decrypt the encrypted interaction data

S208 By means of a simulated device node that can be identified by a second interaction device, on the basis of a communication protocol of the second interaction device which is naturally adapted to the device node, transmit the decrypted interaction data to the second interaction device

(57) Abstract: The present application relates to a data transmission method and apparatus, a system, a computer device and a storage medium. The method comprises: performing bidirectional authentication with a first interaction device (S202); after the bidirectional authentication is completed, receiving encrypted interaction data which is sent by the first interaction device and obtained by encrypting interaction data on the basis of a working key, the working key being obtained by performing mapping of an authentication key used by the first interaction device when performing bidirectional authentication (S204); according to the working key obtained by performing mapping of the authentication key on a communication adapter, decrypting the encrypted interaction data (S206); and by means of a simulated device node that can be identified by a second interaction device, on the basis of a communication protocol of the second interaction device which is naturally adapted to the device node, transmitting the decrypted interaction data to the second interaction device (S208).

[见续页]

WO 2022/105479 A1

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, GH, GM, KE, LR, LS, MW, MZ,
NA, RW, 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, 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))。

(57) 摘要: 本申请涉及一种数据传输方法、装置、系统、计算机设备和存储介质。所述方法包括: 与第一交互设备进行双向认证(S202); 当完成双向认证后, 接收所述第一交互设备所发送的基于工作密钥加密交互数据得到的加密交互数据; 所述工作密钥是由所述第一交互设备对双向认证时所采用的认证密钥进行映射得到的(S204); 根据在所述通信适配器上对所述认证密钥进行映射得到的工作密钥, 对所述加密交互数据进行解密(S206); 通过所模拟的由第二交互设备能够识别的设备节点, 基于所述第二交互设备的原生适配所述设备节点的通信协议, 向所述第二交互设备传输解密所得的交互数据(S208)。