

(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 2024/094075 A1

(43) 国际公布日
2024 年 5 月 10 日 (10.05.2024)

- (51) 国际专利分类号:
G06F 21/62 (2013.01) **G06F 21/60** (2013.01)
- (21) 国际申请号: PCT/CN2023/129122
- (22) 国际申请日: 2023 年 11 月 1 日 (01.11.2023)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
202211354659.8 2022年11月1日 (01.11.2022) CN
- (71) 申请人: 中国移动通信集团设计院有限公司 (CHINA MOBILE GROUP DESIGN INSTITUTE CO., LTD.) [CN/CN]; 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。中国移动通信集团有限公司(CHINA MOBILE COMMUNICATIONS

GROUP CO., LTD.) [CN/CN]; 中国北京市西城区金融大街29号, Beijing 100032 (CN)。

(72) 发明人: 张晨 (ZHANG, Chen); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。杜雪涛 (DU, Xuetao); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。赵刚 (ZHAO, Gang); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。温暖 (WEN, Nuan); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。常潇 (CHANG, Xiao); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。李文琦 (LI, Wenqi); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。杜刚 (DU, Gang); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。张高山 (ZHANG, Gaoshan); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。

(54) Title: BLOCKCHAIN-BASED DATA TRANSACTION METHOD AND APPARATUS, COMPUTING DEVICE, AND STORAGE MEDIUM

(54) 发明名称: 基于区块链的数据交易方法及装置、计算设备及存储介质

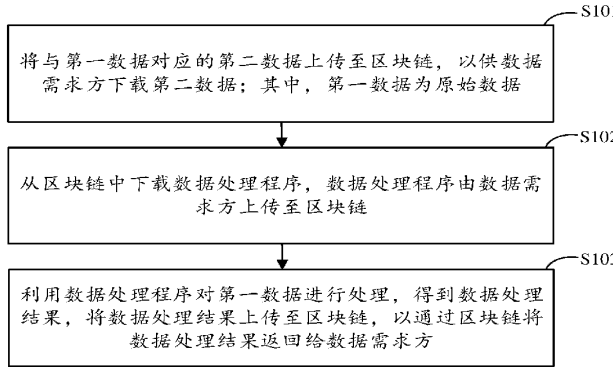


图 1

- S101 Upload second data corresponding to first data to a blockchain for a data demander to download the second data, wherein the first data is raw data
- S102 Download a data processing program from the blockchain, wherein the data processing program is uploaded to the blockchain by the data demander
- S103 Process the first data by using the data processing program so as to obtain a data processing result, and upload the data processing result to the blockchain so as to return the data processing result to the data demander by means of the blockchain

(57) Abstract: The present application discloses a blockchain-based data transaction method and apparatus, a computing device, and a computer storage medium. The blockchain-based data transaction method comprises: uploading second data corresponding to first data to a blockchain for a data demander to download the second data, wherein the first data is raw data; downloading a data processing program from the blockchain, wherein the data processing program is uploaded to the blockchain by the data demander; and processing the first data by using the data processing program so as to obtain a data processing result, and uploading the data processing result

[见续页]

WO 2024/094075 A1

常嘉岳 (CHANG, Jiayue); 中国北京市海淀区丹棱街甲16号, Beijing 100080 (CN)。

(74) 代理人: 北京清亦华知识产权代理事务所 (普通合伙) (TSINGYIHUA INTELLECTUAL PROPERTY LLC); 中国北京市海淀区悦秀路99号4层2单元417, Beijing 100085 (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, 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))。

to the blockchain so as to return the data processing result to the data demander by means of the blockchain. According to the present application, a data provider replaces the data demander to complete the calculation of demand data, the data processing result is returned to the data demander, and a data transaction is converted into a transaction of the data processing program and the data processing result, so that it is ensured that the raw data does not go out of the network, and the security problems of transaction data leakage and abuse are avoided.

(57) 摘要: 本申请公开了一种基于区块链的数据交易方法及装置、计算设备及计算机存储介质, 其中基于区块链的数据交易方法包括: 将与第一数据对应的第二数据上传至区块链, 以供数据需求方下载第二数据; 其中, 第一数据为原始数据; 从区块链中下载数据处理程序, 数据处理程序由数据需求方上传至区块链; 利用数据处理程序对第一数据进行处理, 得到数据处理结果, 将数据处理结果上传至区块链, 以通过区块链将数据处理结果返回给数据需求方。本申请通过数据提供方代替数据需求方完成对需求数据的计算, 将数据处理结果返回给数据需求方, 将数据交易转化为数据处理程序与数据处理结果的交易, 确保了原始数据不出网, 避免了交易数据泄露和被滥用的安全问题。