(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
2020 年 4 月 30 日 (30.04.2020)

WIPO | PCT

(10) 国际公布号
WO 2020/082892 A1

(51) 国际专利分类号:
G06Q 40/00 (2012.01) *G06Q 40/04* (2012.01)

(21) 国际申请号: PCT/CN2019/103236

(22) 国际申请日: 2019 年 8 月 29 日 (29.08.2019)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
201811253445.5 2018年10月25日 (25.10.2018) CN

(71) 申请人: 阿里巴巴集团控股有限公司 (**ALIBABA GROUP HOLDING LIMITED**) [—/CN]; 开曼群岛大开曼资本大厦一座四层 847 号邮箱, Grand Cayman (KY)。

(72) 发明人: 王吉元 (**WANG, Jiyuan**); 中国浙江省杭州市余杭区文一西路 969 号 3 号楼 5 楼阿里巴巴集团法务部, Zhejiang 311121 (CN)。 闫雪冰 (**YAN, Xuebing**); 中国浙江省杭州市余杭区文一西路 969 号 3 号楼 5 楼阿里巴巴集团法务部, Zhejiang 311121 (CN)。

(74) 代理人: 北京博思佳知识产权代理有限公司 (**BEIJING BESTIPR INTELLECTUAL PROPERTY LAW CORPORATION**); 中国北京市海淀区上地三街 9 号嘉华大厦 B 座 409, 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,

(54) **Title:** BLOCKCHAIN-BASED TRANSACTION PROCESSING METHOD AND APPARATUS, AND ELECTRONIC DEVICE

(54) **发明名称**: 基于区块链的交易处理方法及装置、电子设备

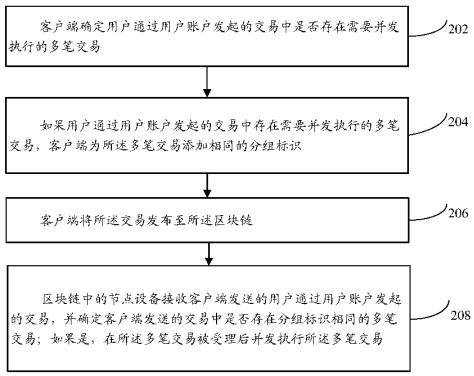

图 2

202 A client determines whether there are multiple transactions needing to be concurrently executed in transactions initiated by a user by means of a user account

204 If there are multiple transactions needing to be concurrently executed in the transactions initiated by the user by means of the user account, the client adds the same group identifier to the multiple transactions

206 The client issues the transactions to a blockchain

208 A node device in the blockchain receives the transactions initiated by the user by means of the user account and transmitted by the client, and determines whether there are multiple transactions with the same group identifier in the transactions transmitted by the client, and if so, concurrently executes the multiple transactions after the multiple transactions are accepted

(57) **Abstract:** Disclosed is a blockchain-based transaction processing method. The method comprises: determining whether there are multiple transactions needing to be concurrently executed in transactions initiated by a user by means of a user account; if there are multiple transactions needing to be concurrently executed in the transactions initiated by the user by means of the user account, adding the same group identifier to the multiple transactions; and issuing the multiple transactions to a blockchain such that a node device in the blockchain concurrently executes, after accepting the transactions issued by a client, the multiple transactions, which have the same group identifier.

(57) **摘要**: 公开一种基于区块链的交易处理方法，所述方法包括：确定用户通过用户账户发起的交易中是否存在需要并发执行的多笔交易；如果用户通过用户账户发起的交易中存在需要并发执行的多笔交易，为所述多笔交易添加相同的分组标识；将所述多笔交易发布至所述区块链，以由所述区块链中的节点设备在受理所述客户端发布的交易后，并发执行具有相同分组标识的多笔交易。

WO 2020/082892 A1

[见续页]

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, 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, 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, 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, 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))。