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(54) **Title:** MANAGING TRANSACTIONS ON BLOCKCHAIN NETWORKS

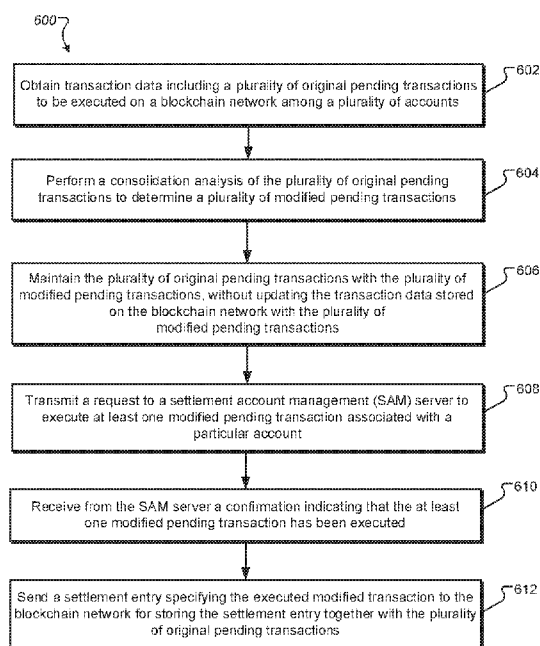


FIG. 6

(57) **Abstract:** Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for managing transactions on blockchain networks. One of the methods includes obtaining, by a scheduling device on a blockchain network, transaction data including a plurality of original pending transactions to be executed on the blockchain network among a plurality of accounts, the transaction data being stored on the blockchain network. The scheduling device performs a consolidation analysis of the plurality of original pending transactions to determine a plurality of modified pending transactions among the plurality of accounts, and a number of the plurality of modified pending transactions is less than a number of the plurality of original pending transactions. The scheduling device maintains the plurality of original pending transactions with the plurality of modified pending transactions, without updating the transaction data stored on the blockchain network with the plurality of modified pending transactions.



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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G06Q H04L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CNPAT,WPI,EPODOC,CNKI:consolidat+, combin+, block chain, blockchain, account?, transaction?, pending, settle, SAM, Merkle, hash, SHA		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	US 20200184473 A1 (ALIBABA GROUP HOLDING LTD.) 11 June 2020 (2020-06-11) the abstract	1-15
PX	CN 110264348 A (BEIJING QIYI CENTURY SCI & TECHNOLOGY CO.) 20 September 2019 (2019-09-20) description, paragraphs [0009]-[0017]	1-15
X	US 2018101848 A1 (BANK OF AMERICA CORP.) 12 April 2018 (2018-04-12) description, paragraphs [0080]-[0094]	1-15
X	US 2017243215 A1 (BANK OF AMERICA CORP.) 24 August 2017 (2017-08-24) description, paragraphs [0064]-[0069]	1-15
X	CN 105630609 A (HANGZHOU FUZAMEI TECHNOLOGY CO., LTD.) 01 June 2016 (2016-06-01) description, paragraphs [0013]-[0019]	1-15
X	CN 108932348 A (BEIJING JINGDONG SHANGKE INFORMATION TEC. et al.) 04 December 2018 (2018-12-04) description, paragraphs [0036]-[0053]	1-15
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 108520412 A (BEIJING TIANDE TECHNOLOGY CO., LTD.) 11 September 2018 (2018-09-11) the whole document	1-15

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
US 20200184473 A1	11 June 2020	None	
CN 110264348 A	20 September 2019	None	
US 2018101848 A1	12 April 2018	None	
US 2017243215 A1	24 August 2017	None	
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CN 108932348 A	04 December 2018	None	
CN 108520412 A	11 September 2018	None	