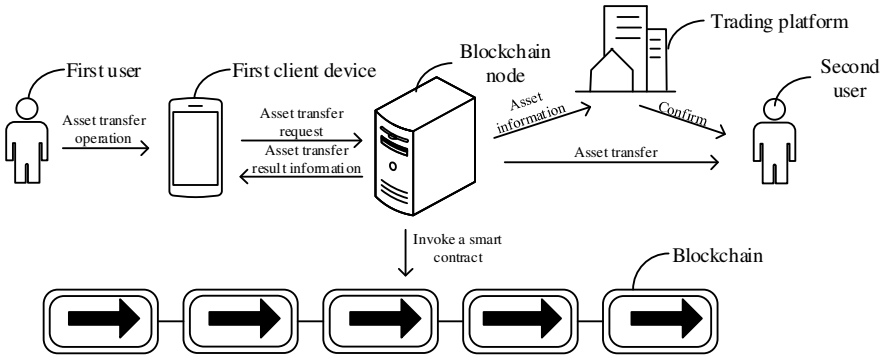

First user
First client device
Blockchain node
Trading platform
Second user
Asset transfer operation
Asset transfer request
Asset transfer result information
Asset information
Confirm
Asset transfer
Invoke a smart contract
Blockchain

FIG. 1

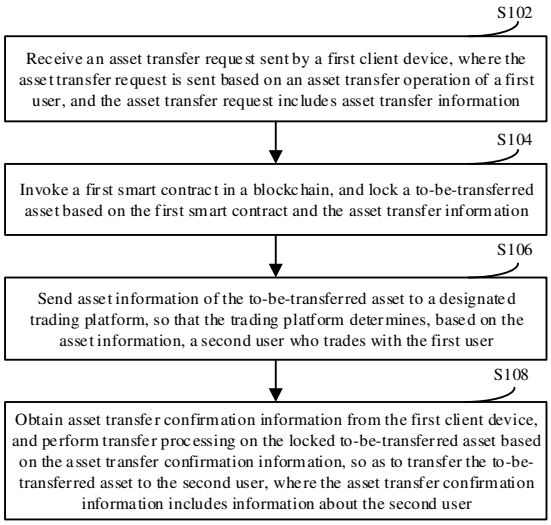

S102
Receive an asset transfer request sent by a first client device, where the asset transfer request is sent based on an asset transfer operation of a first user, and the asset transfer request includes asset transfer information
S104
Invoke a first smart contract in a blockchain, and lock a to-be-transferred asset based on the first smart contract and the asset transfer information
S106
Send asset information of the to-be-transferred asset to a designated trading platform, so that the trading platform determines, based on the asset information, a second user who trades with the first user
S108
Obtain asset transfer confirmation information from the first client device, and perform transfer processing on the locked to-be-transferred asset based on the asset transfer confirmation information, so as to transfer the to-be-transferred asset to the second user, where the asset transfer confirmation information includes information about the second user

FIG. 2

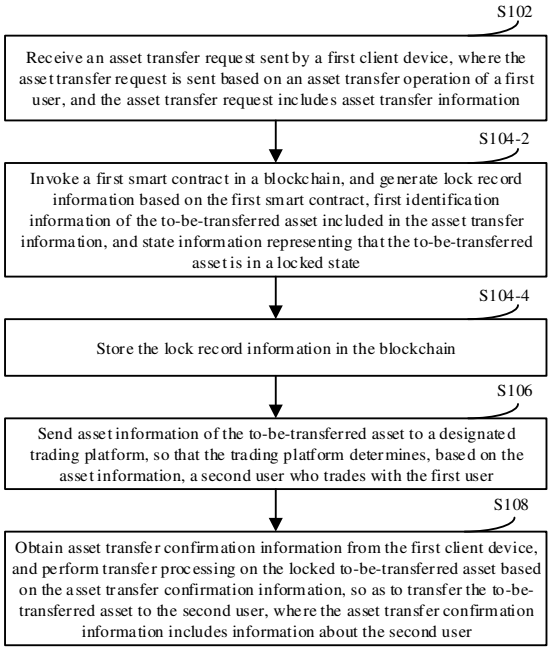

S102
Receive an asset transfer request sent by a first client device, where the asset transfer request is sent based on an asset transfer operation of a first user, and the asset transfer request includes asset transfer information
S104-2
Invoke a first smart contract in a blockchain, and generate lock record information based on the first smart contract, first identification information of the to-be-transferred asset included in the asset transfer information, and state information representing that the to-be-transferred asset is in a locked state
S104-4
Store the lock record information in the blockchain
S106
Send asset information of the to-be-transferred asset to a designated trading platform, so that the trading platform determines, based on the asset information, a second user who trades with the first user
S108
Obtain asset transfer confirmation information from the first client device, and perform transfer processing on the locked to-be-transferred asset based on the asset transfer confirmation information, so as to transfer the to-be-transferred asset to the second user, where the asset transfer confirmation information includes information about the second user

FIG. 3

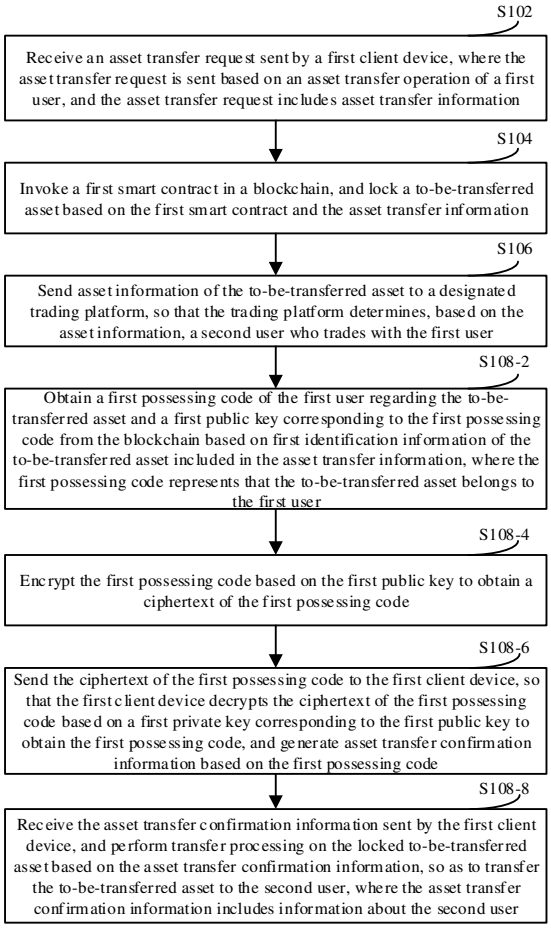

S102
Receive an asset transfer request sent by a first client device, where the asset transfer request is sent based on an asset transfer operation of a first user, and the asset transfer request includes asset transfer information
S104
Invoke a first smart contract in a blockchain, and lock a to-be-transferred asset based on the first smart contract and the asset transfer information
S106
Send asset information of the to-be-transferred asset to a designated trading platform, so that the trading platform determines, based on the asset information, a second user who trades with the first user
S108-2
Obtain a first possessing code of the first user regarding the to-be-transferred asset and a first public key corresponding to the first possessing code from the blockchain based on first identification information of the to-be-transferred asset included in the asset transfer information, where the first possessing code represents that the to-be-transferred asset belongs to the first user
S108-4
Encrypt the first possessing code based on the first public key to obtain a ciphertext of the first possessing code
S108-6
Send the ciphertext of the first possessing code to the first client device, so that the first client device decrypts the ciphertext of the first possessing code based on a first private key corresponding to the first public key to obtain the first possessing code, and generate asset transfer confirmation information based on the first possessing code
S108-8
Receive the asset transfer confirmation information sent by the first client device, and perform transfer processing on the locked to-be-transferred asset based on the asset transfer confirmation information, so as to transfer the to-be-transferred asset to the second user, where the asset transfer confirmation information includes information about the second user

FIG. 4

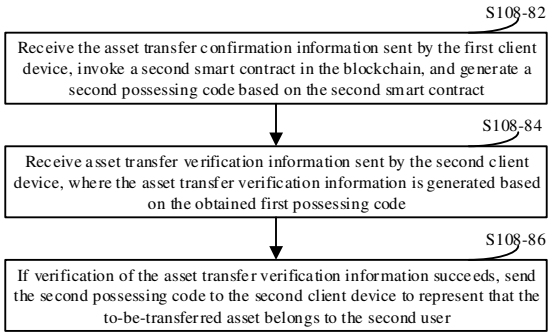

S108-82
Receive the asset transfer confirmation information sent by the first client device, invoke a second smart contract in the blockchain, and generate a second possessing code based on the second smart contract
S108-84
Receive asset transfer verification information sent by the second client device, where the asset transfer verification information is generated based on the obtained first possessing code
S108-86
If verification of the asset transfer verification information succeeds, send the second possessing code to the second client device to represent that the to-be-transferred asset belongs to the second user

FIG. 5

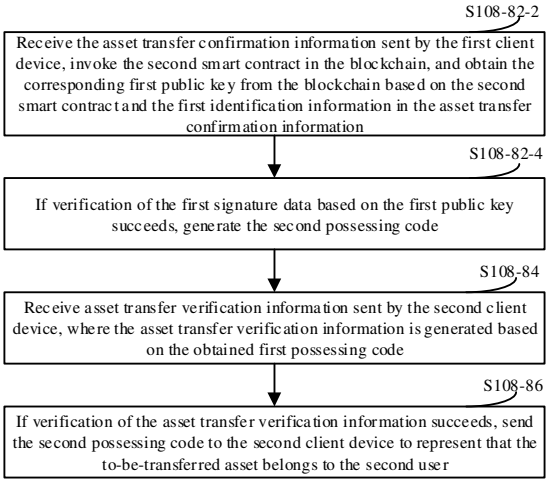

S108-82-2
Receive the asset transfer confirmation information sent by the first client device, invoke the second smart contract in the blockchain, and obtain the corresponding first public key from the blockchain based on the second smart contract and the first identification information in the asset transfer confirmation information
S108-82-4
If verification of the first signature data based on the first public key succeeds, generate the second possessing code
S108-84
Receive asset transfer verification information sent by the second client device, where the asset transfer verification information is generated based on the obtained first possessing code
S108-86
If verification of the asset transfer verification information succeeds, send the second possessing code to the second client device to represent that the to-be-transferred asset belongs to the second user

FIG. 6

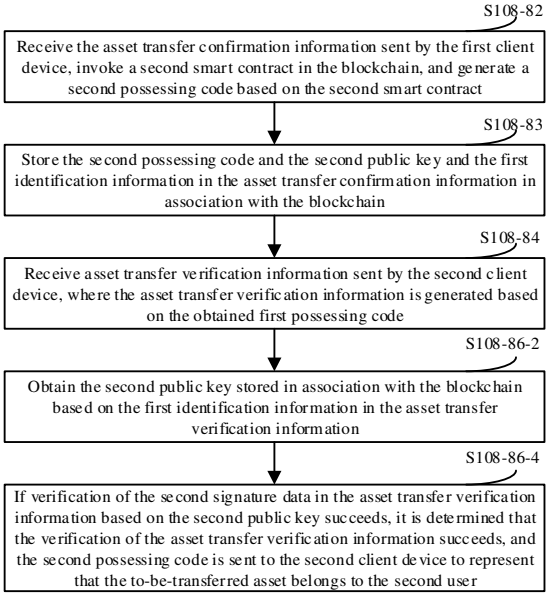

S108-82
Receive the asset transfer confirmation information sent by the first client device, invoke a second smart contract in the blockchain, and generate a second possessing code based on the second smart contract
S108-83
Store the second possessing code and the second public key and the first identification information in the asset transfer confirmation information in association with the blockchain
S108-84
Receive asset transfer verification information sent by the second client device, where the asset transfer verification information is generated based on the obtained first possessing code
S108-86-2
Obtain the second public key stored in association with the blockchain based on the first identification information in the asset transfer verification information
S108-86-4
If verification of the second signature data in the asset transfer verification information based on the second public key succeeds, it is determined that the verification of the asset transfer verification information succeeds, and the second possessing code is sent to the second client device to represent that the to-be-transferred asset belongs to the second user

FIG. 7

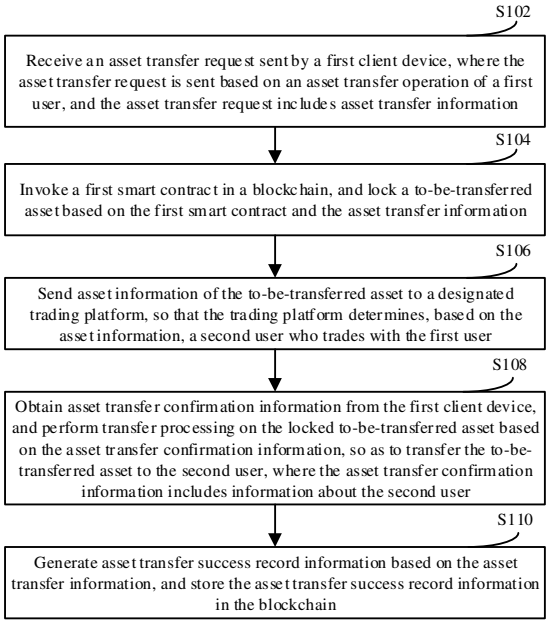

S102
Receive an asset transfer request sent by a first client device, where the asset transfer request is sent based on an asset transfer operation of a first user, and the asset transfer request includes asset transfer information
S104
Invoke a first smart contract in a blockchain, and lock a to-be-transferred asset based on the first smart contract and the asset transfer information
S106
Send asset information of the to-be-transferred asset to a designated trading platform, so that the trading platform determines, based on the asset information, a second user who trades with the first user
S108
Obtain asset transfer confirmation information from the first client device, and perform transfer processing on the locked to-be-transferred asset based on the asset transfer confirmation information, so as to transfer the to-be-transferred asset to the second user, where the asset transfer confirmation information includes information about the second user
S110
Generate asset transfer success record information based on the asset transfer information, and store the asset transfer success record information in the blockchain

FIG. 8

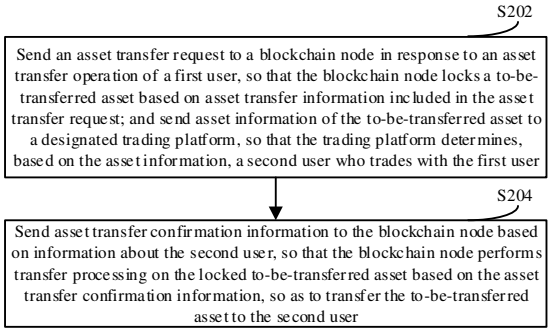

S202
Send an asset transfer request to a blockchain node in response to an asset transfer operation of a first user, so that the blockchain node locks a to-be-transferred asset based on asset transfer information included in the asset transfer request; and send asset information of the to-be-transferred asset to a designated trading platform, so that the trading platform determines, based on the asset information, a second user who trades with the first user
S204
Send asset transfer confirmation information to the blockchain node based on information about the second user, so that the blockchain node performs transfer processing on the locked to-be-transferred asset based on the asset transfer confirmation information, so as to transfer the to-be-transferred asset to the second user

FIG. 9

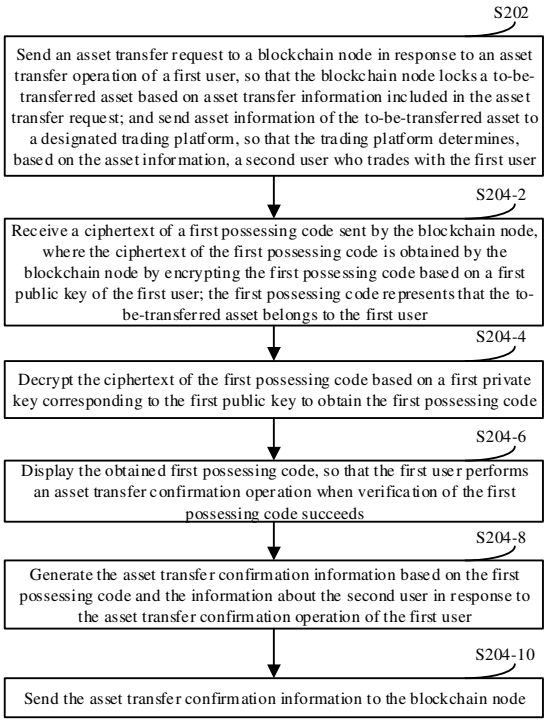

S202
Send an asset transfer request to a blockchain node in response to an asset transfer operation of a first user, so that the blockchain node locks a to-be-transferred asset based on asset transfer information included in the asset transfer request; and send asset information of the to-be-transferred asset to a designated trading platform, so that the trading platform determines, based on the asset information, a second user who trades with the first user
S204-2
Receive a ciphertext of a first possessing code sent by the blockchain node, where the ciphertext of the first possessing code is obtained by the blockchain node by encrypting the first possessing code based on a first public key of the first user; the first possessing code represents that the to-be-transferred asset belongs to the first user
S204-4
Decrypt the ciphertext of the first possessing code based on a first private key corresponding to the first public key to obtain the first possessing code
S204-6
Display the obtained first possessing code, so that the first user performs an asset transfer confirmation operation when verification of the first possessing code succeeds
S204-8
Generate the asset transfer confirmation information based on the first possessing code and the information about the second user in response to the asset transfer confirmation operation of the first user
S204-10
Send the asset transfer confirmation information to the blockchain node

FIG. 10

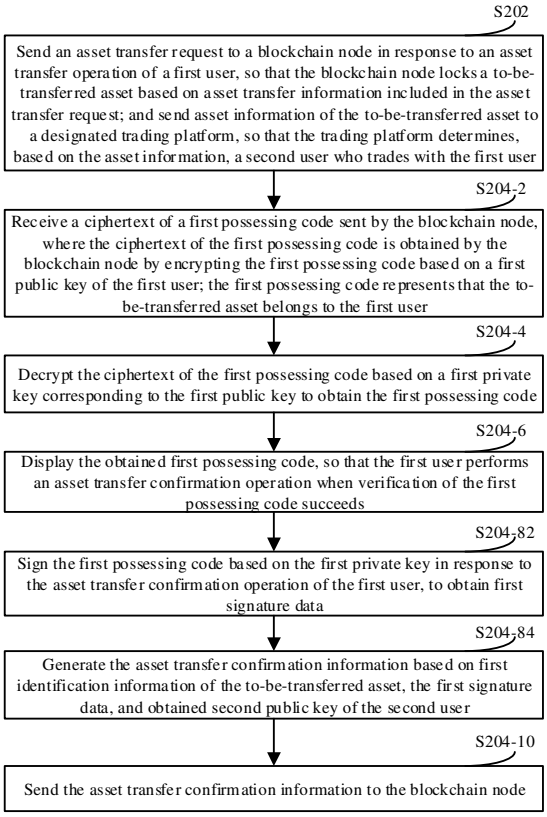



FIG. 11

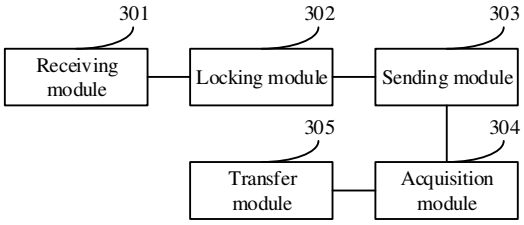



FIG. 12

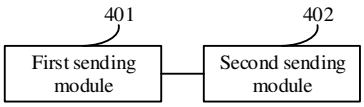



FIG. 13

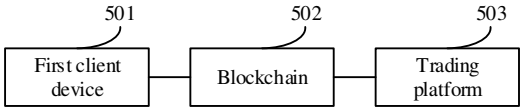



FIG. 14

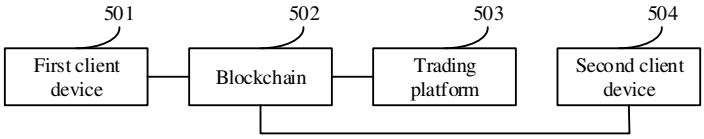



FIG. 15

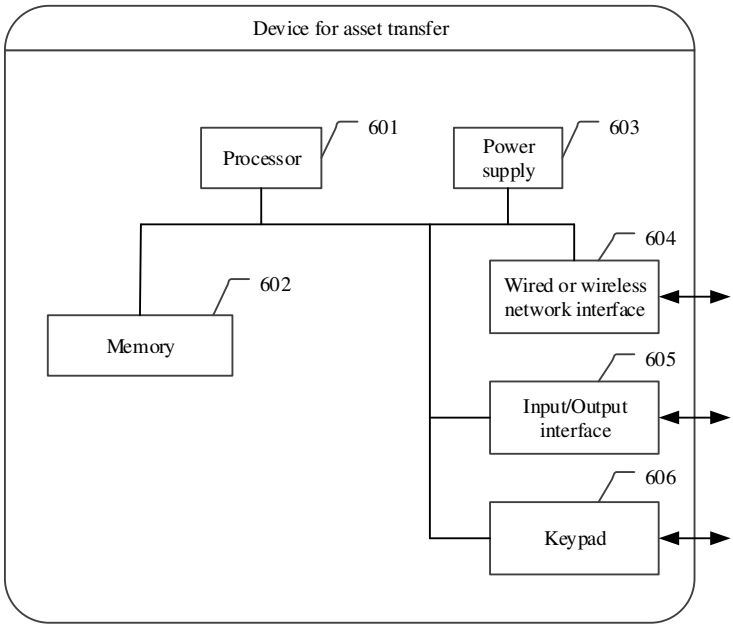



FIG. 16