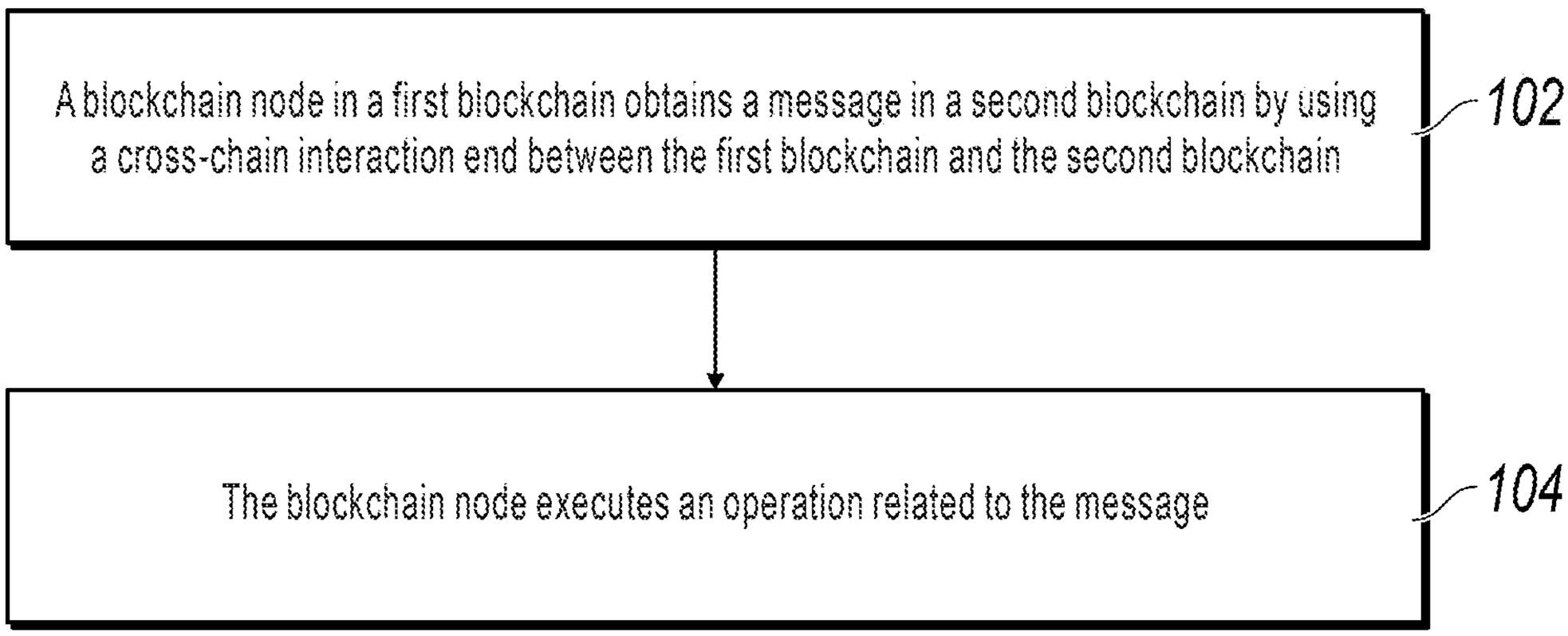

A blockchain node in a first blockchain obtains a message in a second blockchain by using a cross-chain interaction end between the first blockchain and the second blockchain
102
The blockchain node executes an operation related to the message
104

FIG. 1

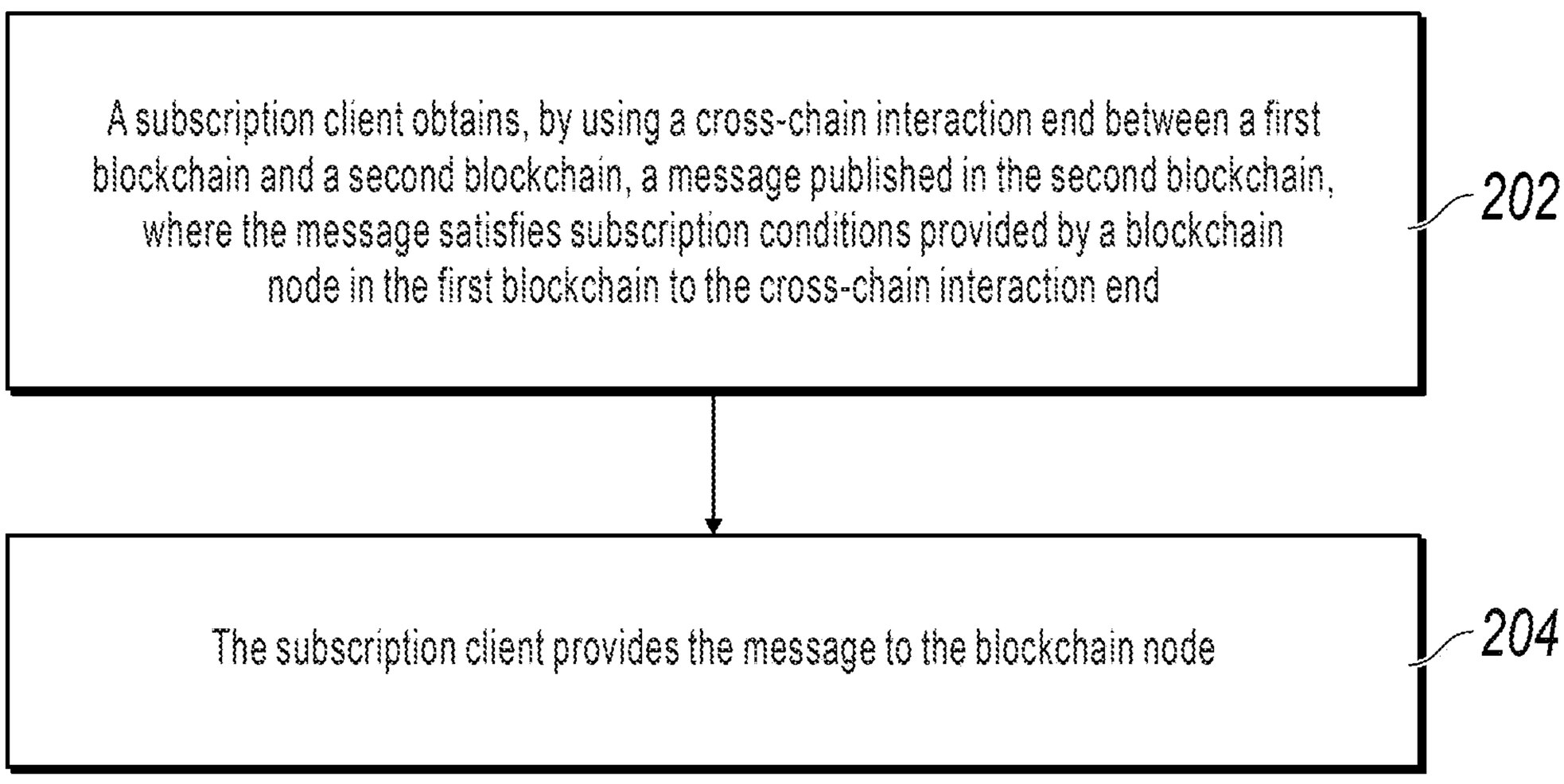

A subscription client obtains, by using a cross-chain interaction end between a first blockchain and a second blockchain, a message published in the second blockchain, where the message satisfies subscription conditions provided by a blockchain node in the first blockchain to the cross-chain interaction end
202
The subscription client provides the message to the blockchain node
204

FIG. 2

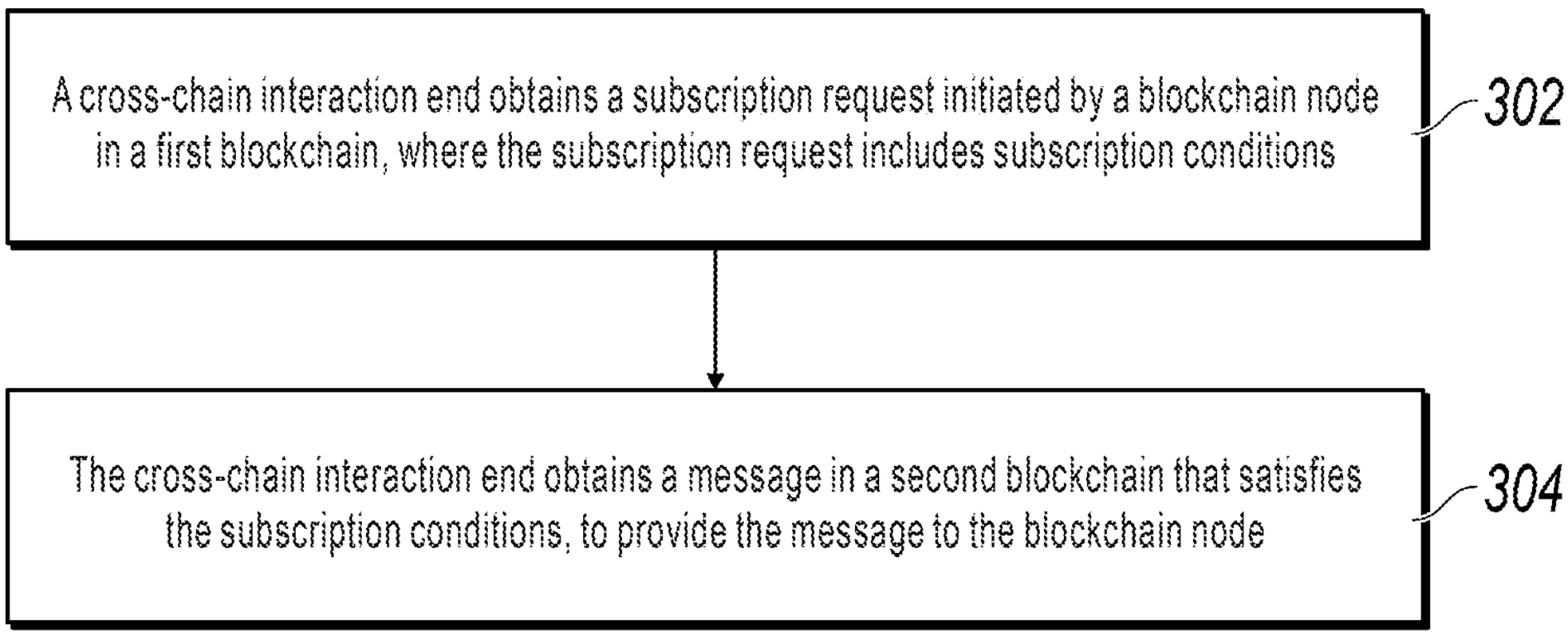

A cross-chain interaction end obtains a subscription request initiated by a blockchain node in a first blockchain, where the subscription request includes subscription conditions
302
The cross-chain interaction end obtains a message in a second blockchain that satisfies the subscription conditions, to provide the message to the blockchain node
304

FIG. 3

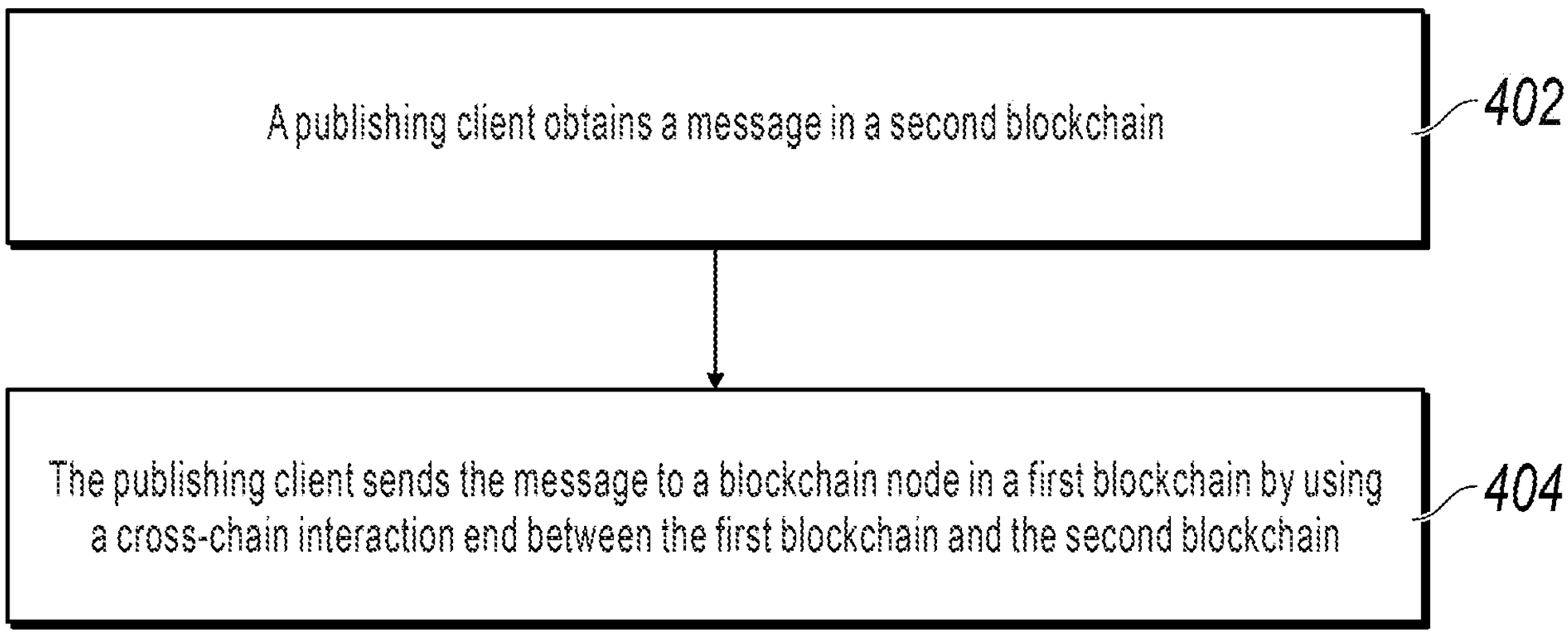

A publishing client obtains a message in a second blockchain
402
The publishing client sends the message to a blockchain node in a first blockchain by using a cross-chain interaction end between the first blockchain and the second blockchain
404

FIG. 4

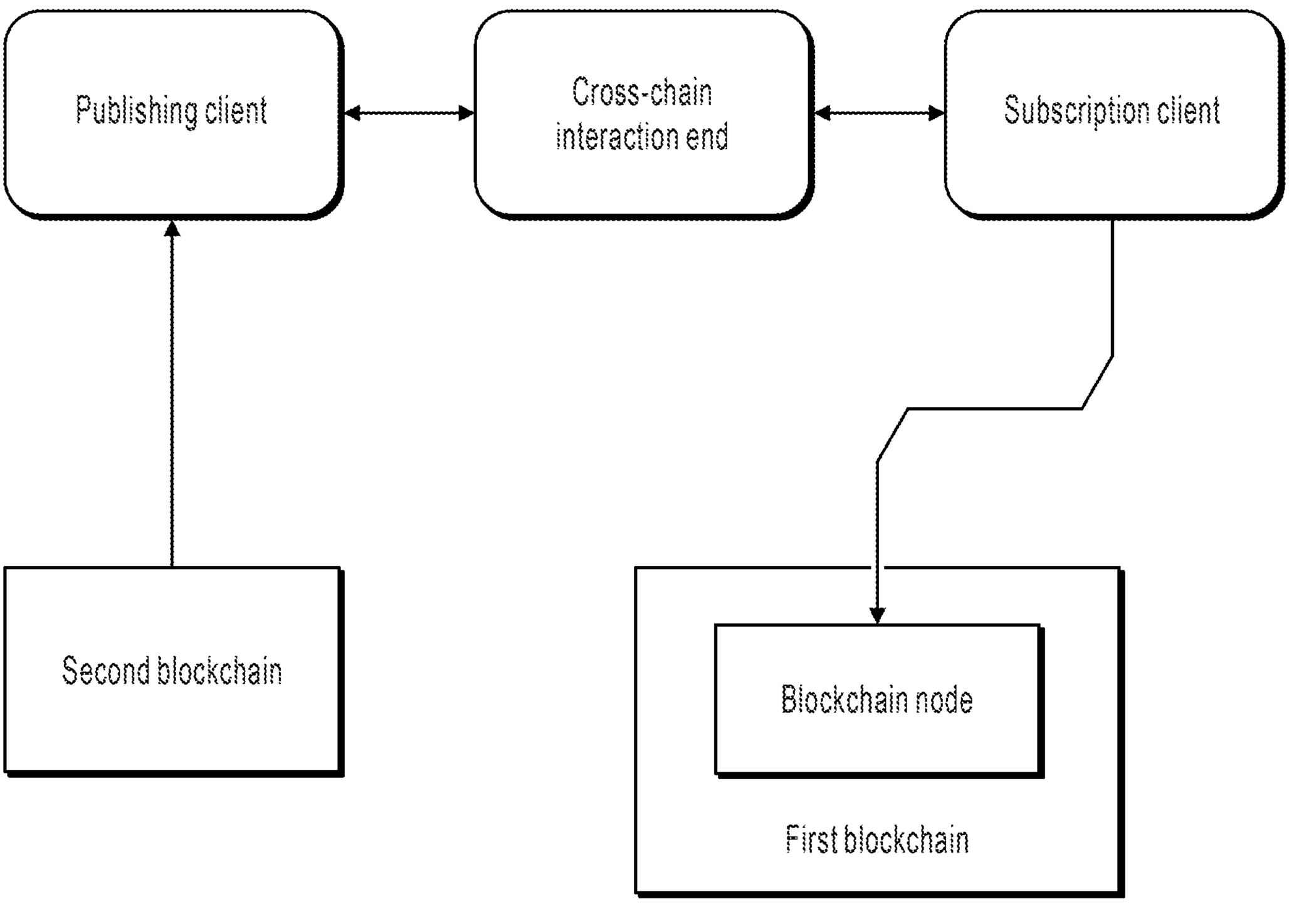

Publishing client
Cross-chain interaction end
Subscription client
Second blockchain
Blockchain node
First blockchain

FIG. 5

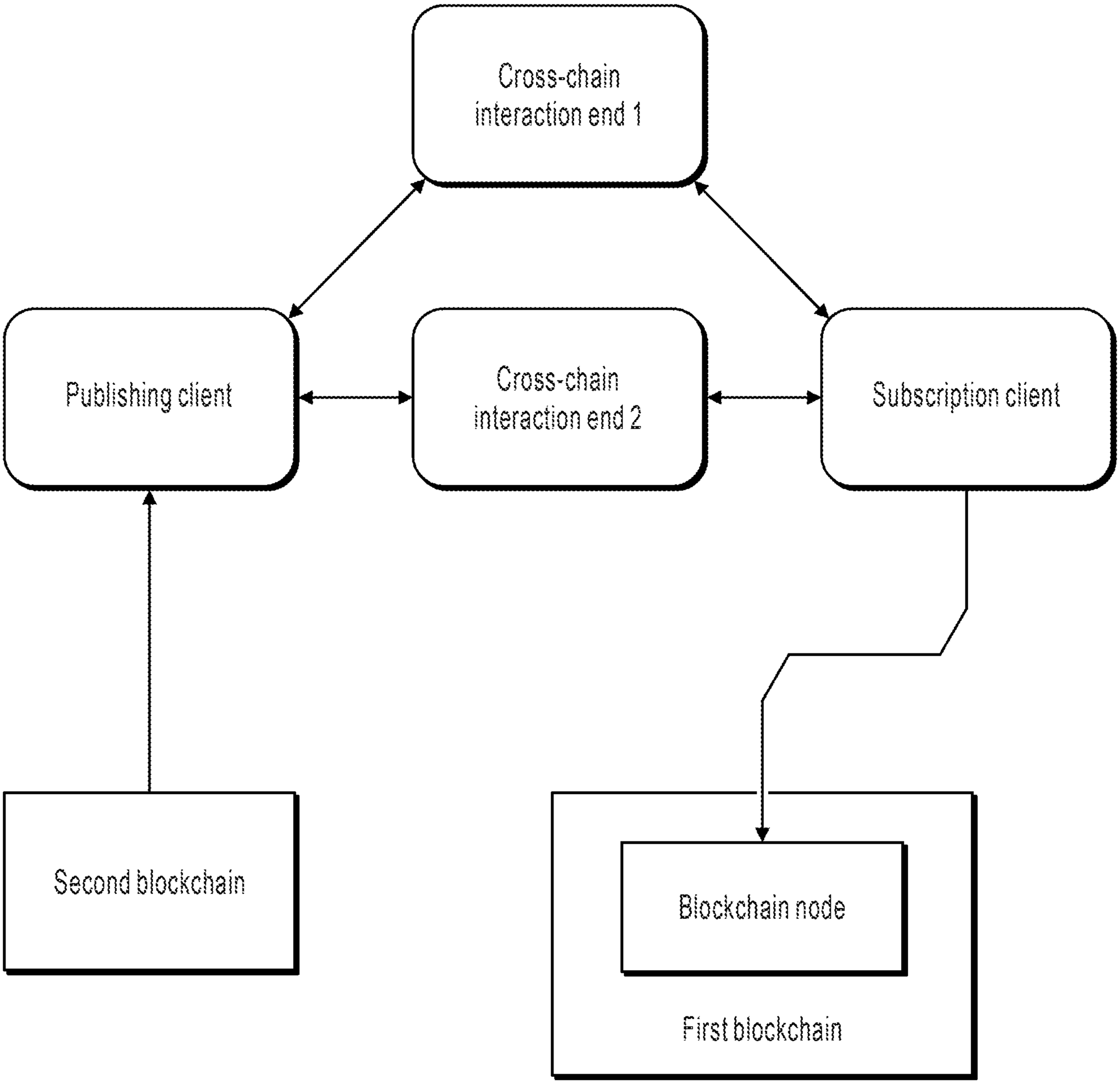

Cross-chain interaction end 1
Publishing client
Cross-chain interaction end 2
Subscription client
Second blockchain
Blockchain node
First blockchain

FIG. 6

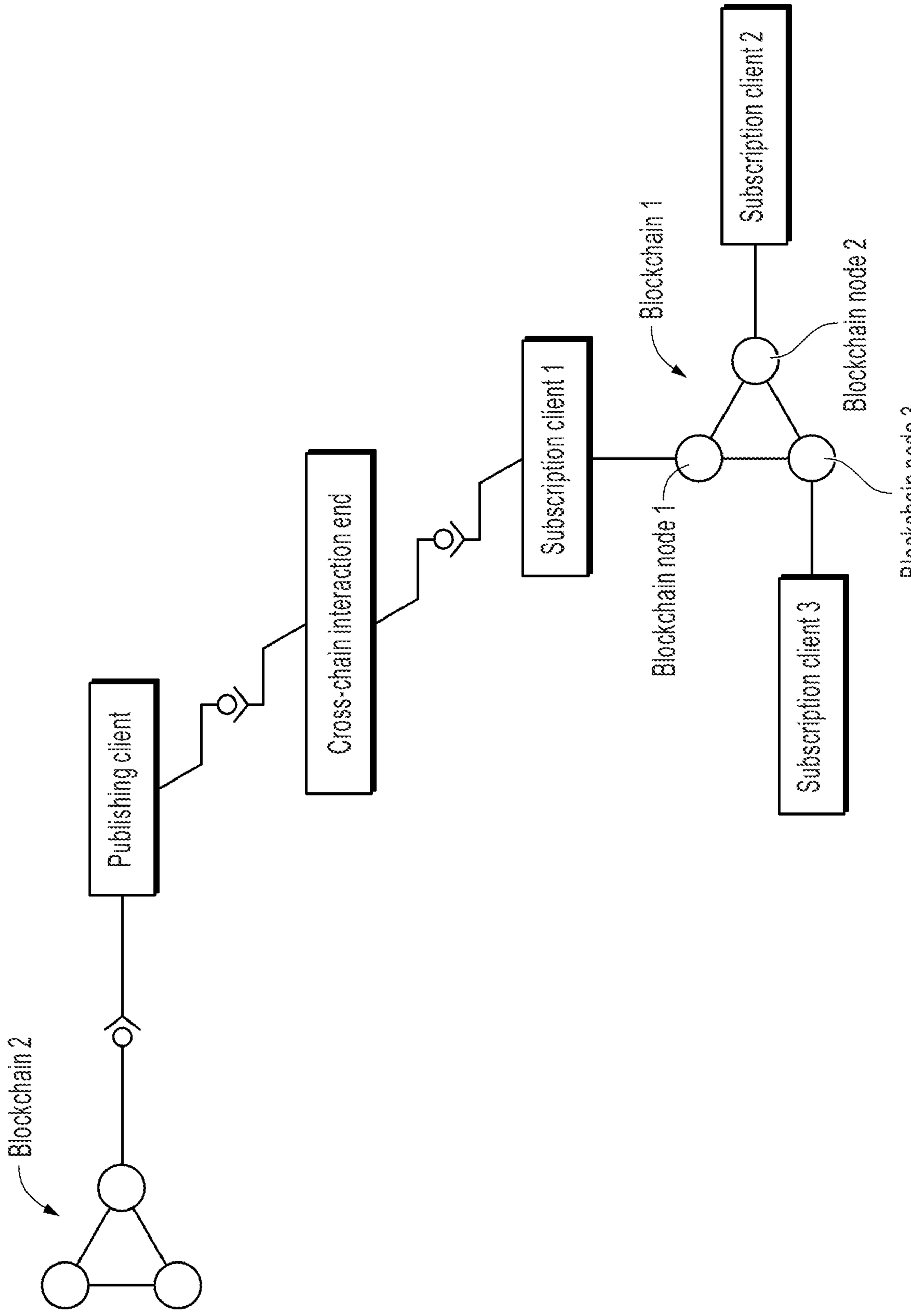

Blockchain 2
Publishing client
Cross-chain interaction end
Subscription client 1
Blockchain 1
Blockchain node 1
Blockchain node 2
Blockchain node 3
Subscription client 2
Subscription client 3

FIG. 7

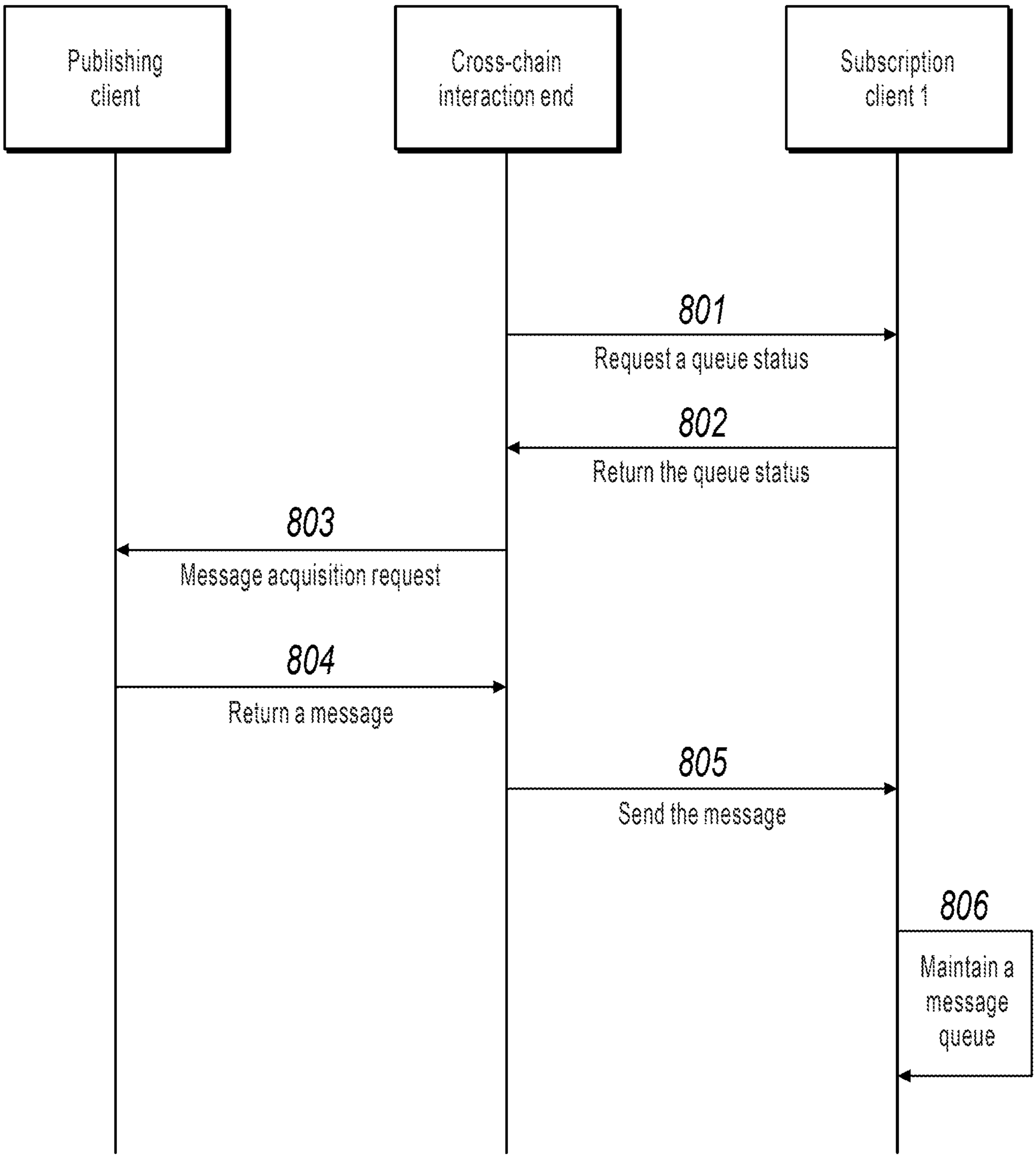

Publishing client
Cross-chain interaction end
Subscription client 1
801
Request a queue status
802
Return the queue status
803
Message acquisition request
804
Return a message
805
Send the message
806
Maintain a message queue

FIG. 8

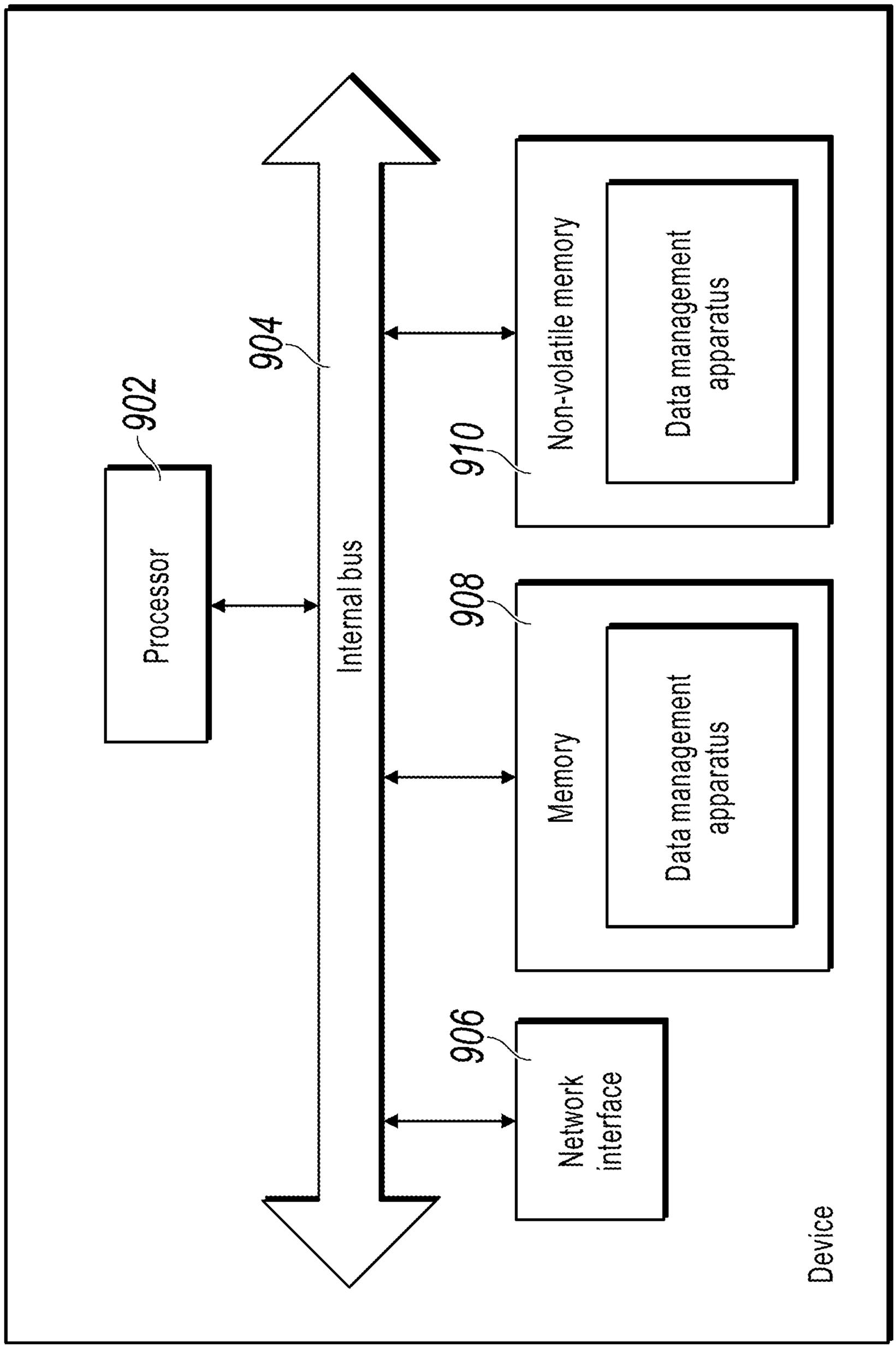

Device
Processor
902
Internal bus
904
Network interface
906
Memory
908
Data management apparatus
Non-volatile memory
910
Data management apparatus

FIG. 9

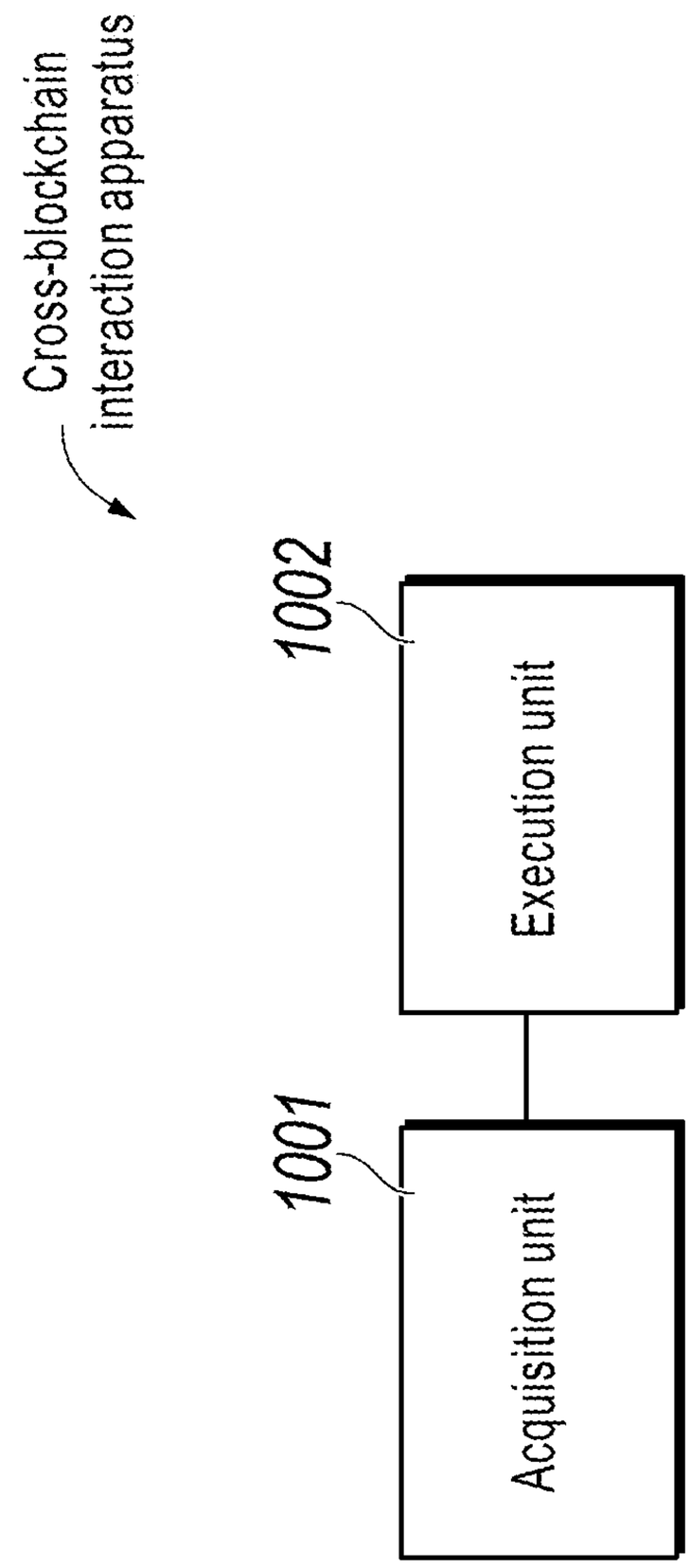

Cross-blockchain interaction apparatus
1002
Execution unit
1001
Acquisition unit

FIG. 10

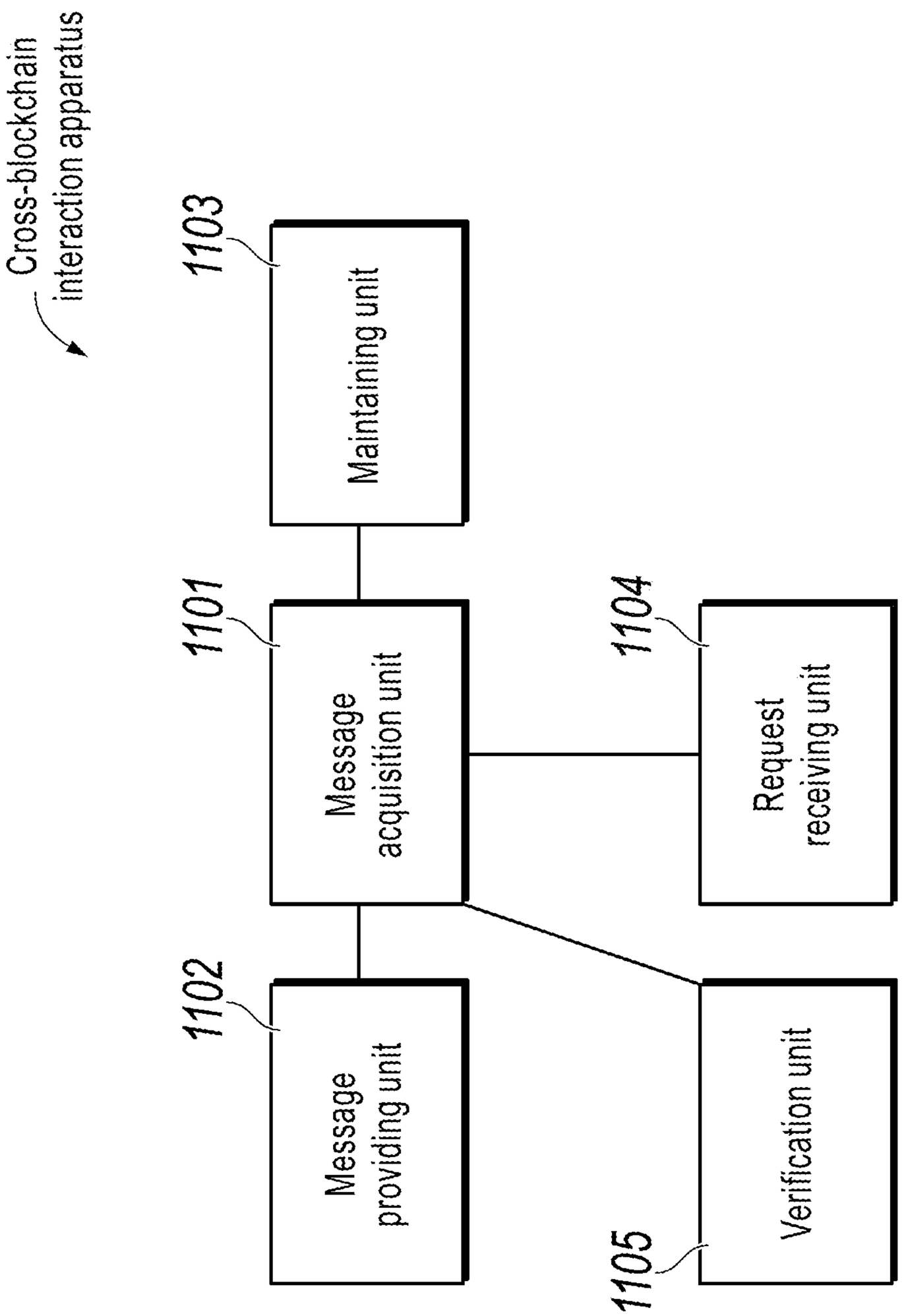

Cross-blockchain interaction apparatus
1103
Maintaining unit
1101
Message acquisition unit
1104
Request receiving unit
1102
Message providing unit
105
Verification unit

FIG. 11

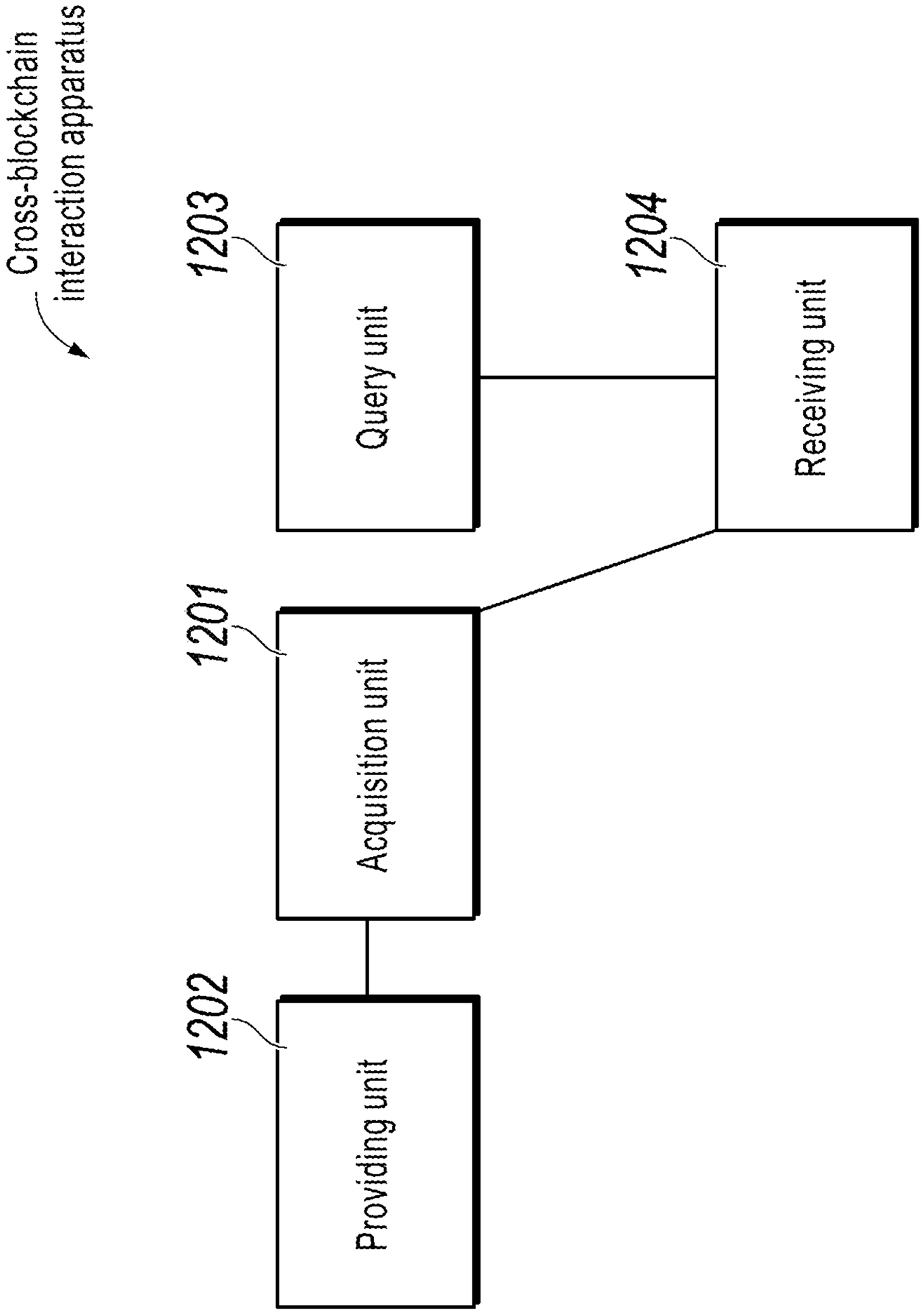

Cross-blockchain interaction apparatus
1201
Acquisition unit
1202
Providing unit
1203
Query unit
1204
Receiving unit

FIG. 12

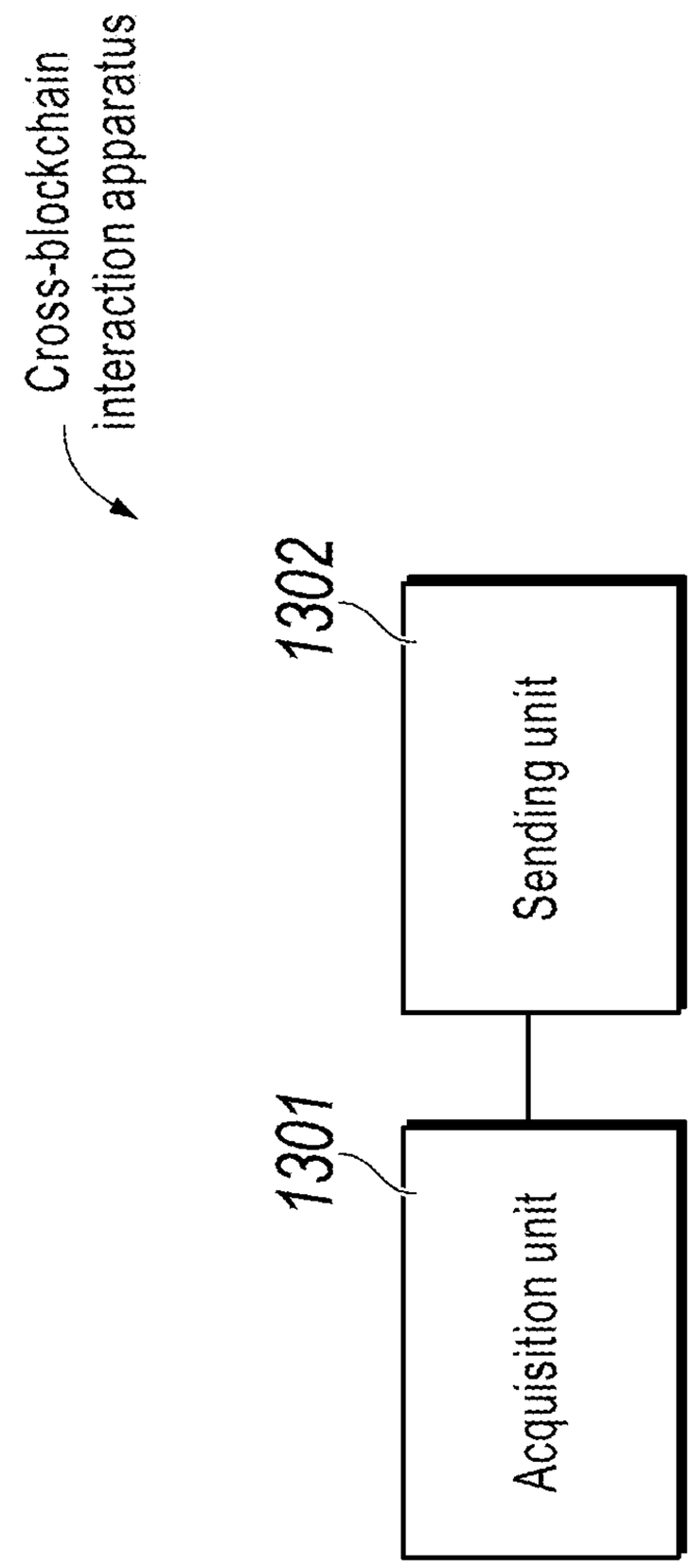

Cross-blockchain interaction apparatus
1302
Sending unit
1301
Acquisition unit

FIG. 13

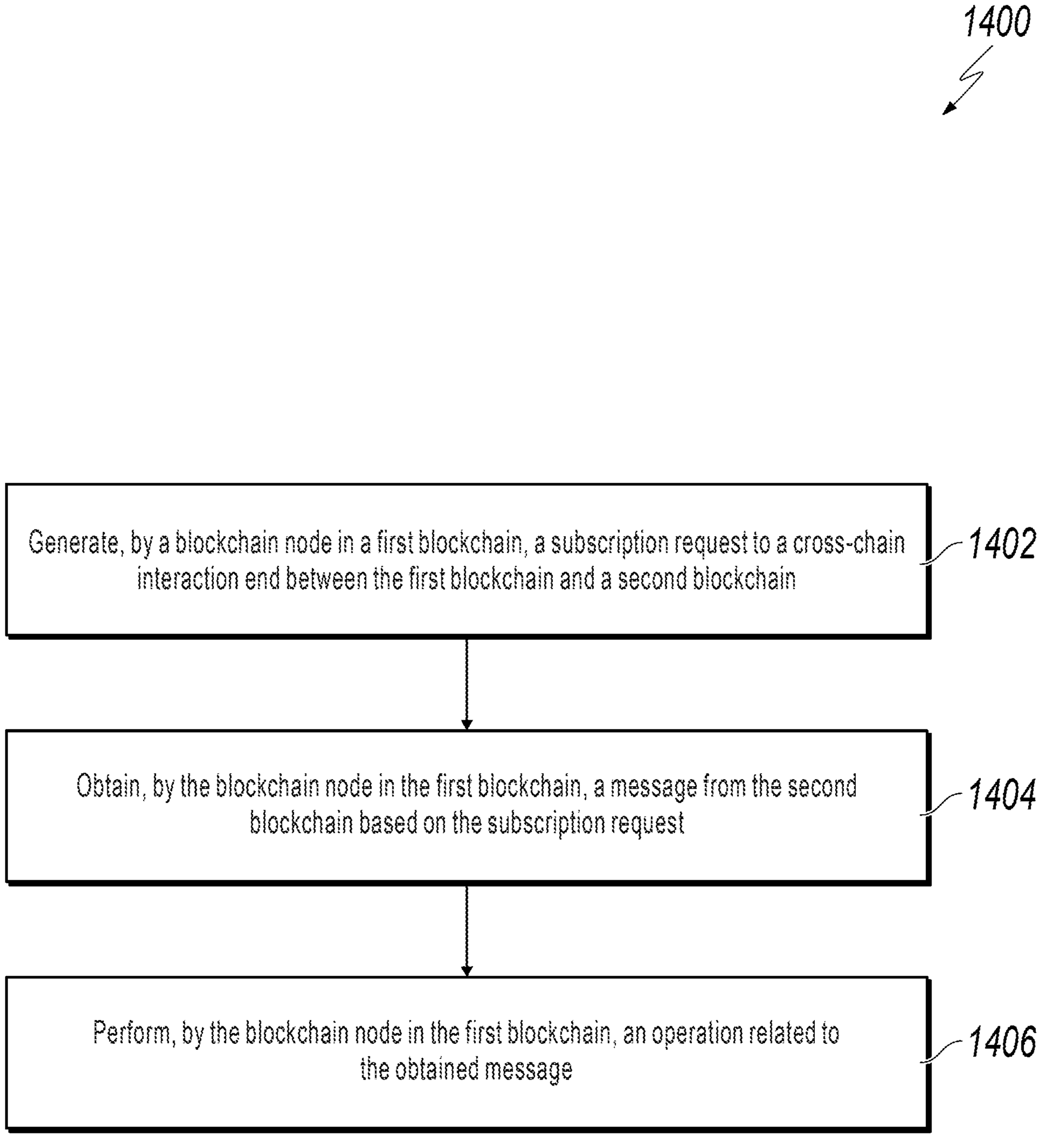

1400
Generate, by a blockchain node in a first blockchain, a subscription request to a cross-chain interaction end between the first blockchain and a second blockchain
1402
Obtain, by the blockchain node in the first blockchain, a message from the second blockchain based on the subscription request
1404
Perform, by the blockchain node in the first blockchain, an operation related to the obtained message
1406

FIG. 14