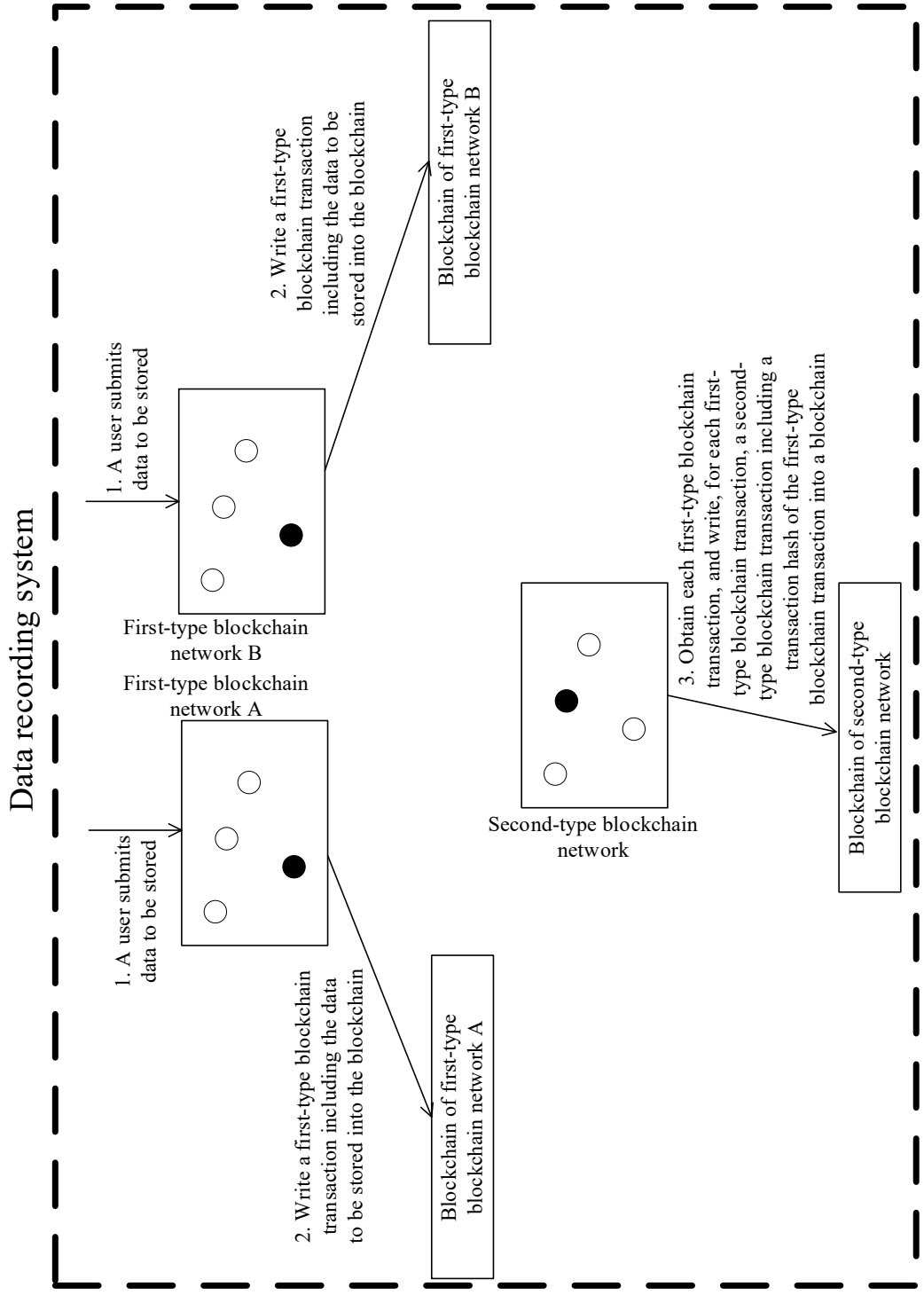
Data recording system
1. A user submits data to be stored
First-type blockchain network B
2. Write a first-type blockchain transaction including the data to be stored into the blockchain
Blockchain of first-type blockchain network B
First-type blockchain network A
1. A user submits data to be stored
2. Write a first-type blockchain transaction including the data to be stored into the blockchain
Blockchain of first-type blockchain network A
Second-type blockchain network
3. Obtain each first-type blockchain transaction, and write, for each first-type blockchain transaction, a second-type blockchain transaction including a transaction hash of the first-type blockchain transaction into a blockchain
Blockchain of second-type blockchain network

FIG. 1

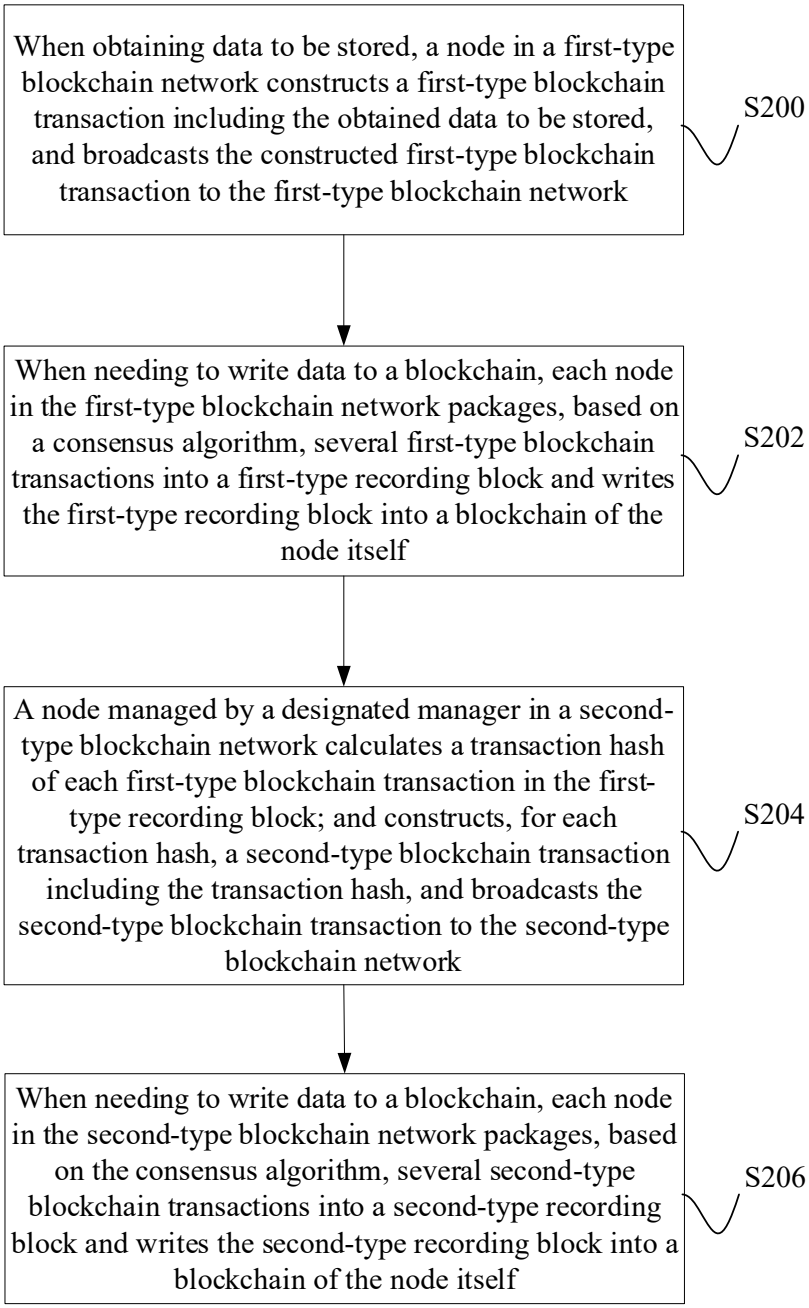
When obtaining data to be stored, a node in a first-type blockchain network constructs a first-type blockchain transaction including the obtained data to be stored, and broadcasts the constructed first-type blockchain transaction to the first-type blockchain network
S200
When needing to write data to a blockchain, each node in the first-type blockchain network packages, based on a consensus algorithm, several first-type blockchain transactions into a first-type recording block and writes the first-type recording block into a blockchain of the node itself
S202
A node managed by a designated manager in a second-type blockchain network calculates a transaction hash of each first-type blockchain transaction in the first-type recording block; and constructs, for each transaction hash, a second-type blockchain transaction including the transaction hash, and broadcasts the second-type blockchain transaction to the second-type blockchain network
S204
When needing to write data to a blockchain, each node in the second-type blockchain network packages, based on the consensus algorithm, several second-type blockchain transactions into a second-type recording block and writes the second-type recording block into a blockchain of the node itself
S206

FIG. 2

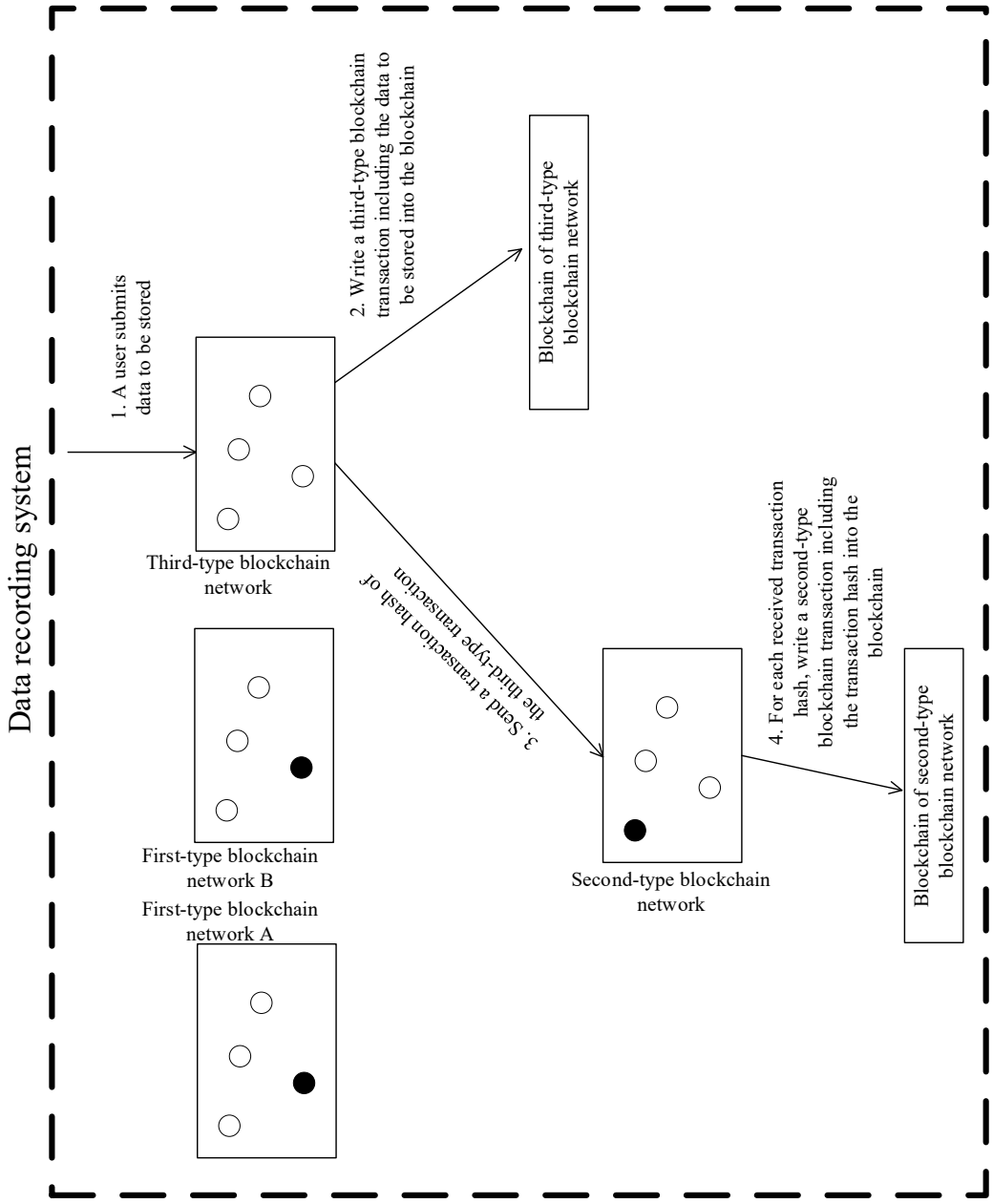
Data recording system
1. A user submits data to be stored
Third-type blockchain network
2. Write a third-type blockchain transaction including the data to be stored into the blockchain
Blockchain of third-type blockchain network
3. Send a transaction hash of the third-type transaction
First-type blockchain network B
First-type blockchain network A
Second-type blockchain network
4. For each received transaction hash, write a second-type blockchain transaction including the transaction hash into the blockchain
Blockchain of second-type blockchain network

FIG. 3

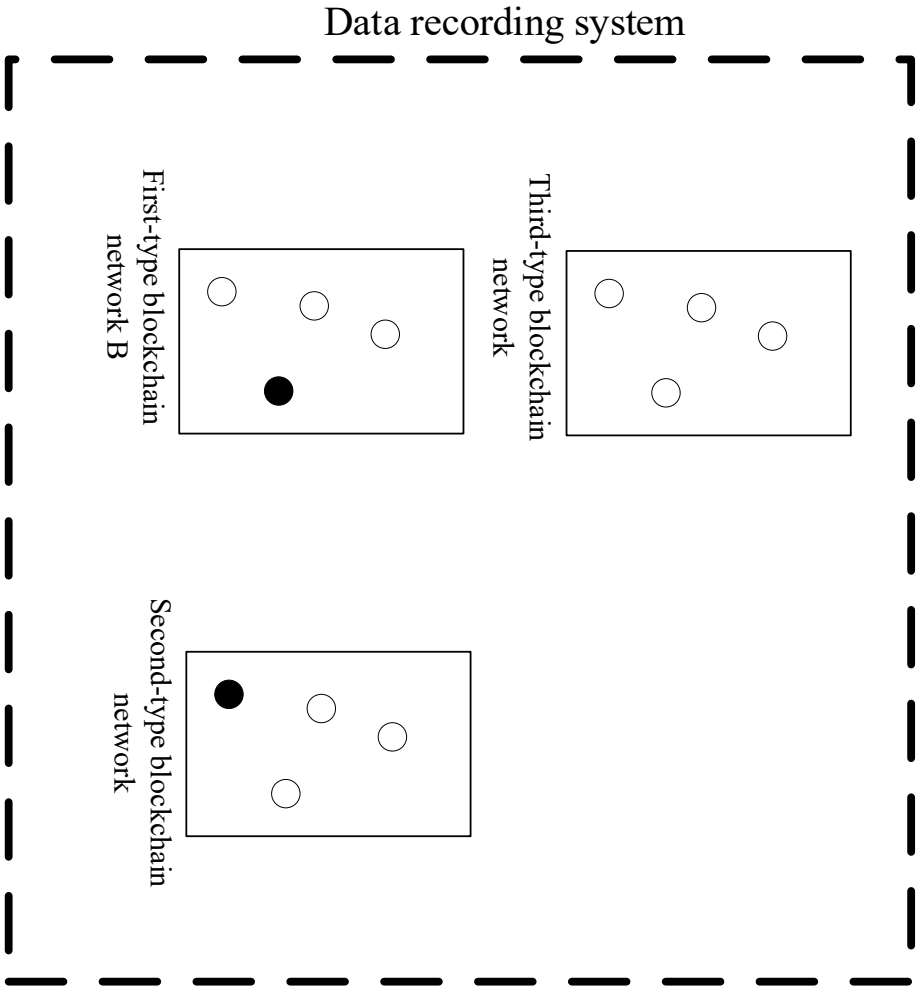
Data recording system
Third-type blockchain network
First-type blockchain network B
Second-type blockchain network

FIG. 4

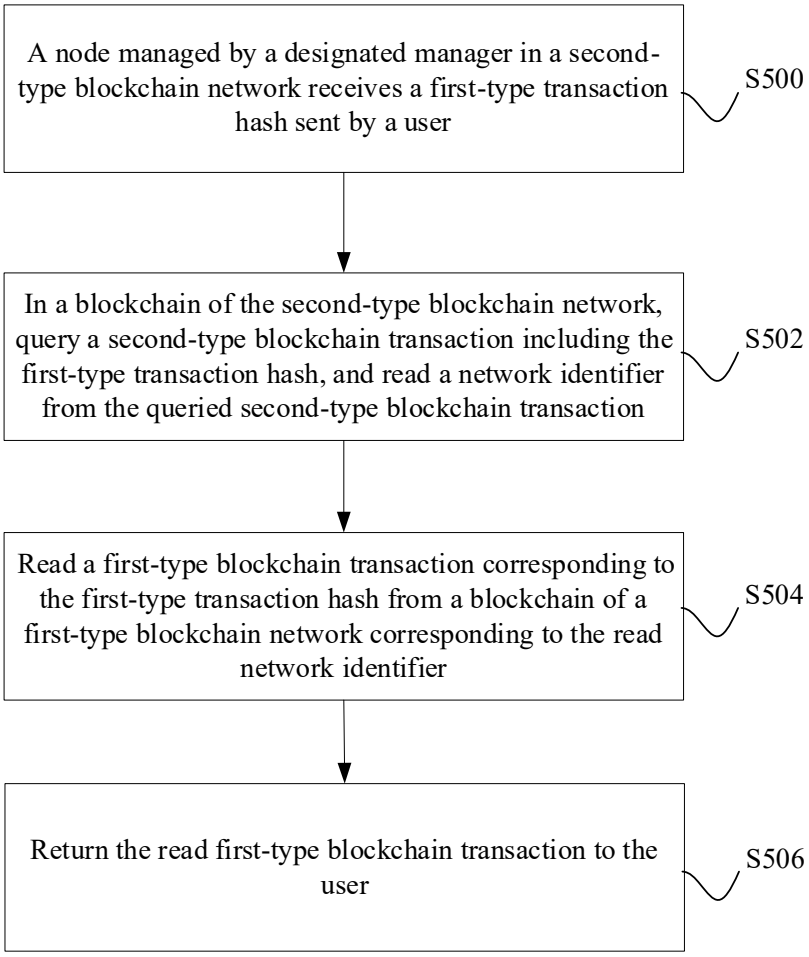
A node managed by a designated manager in a second-type blockchain network receives a first-type transaction hash sent by a user
S500
In a blockchain of the second-type blockchain network, query a second-type blockchain transaction including the first-type transaction hash, and read a network identifier from the queried second-type blockchain transaction
S502
Read a first-type blockchain transaction corresponding to the first-type transaction hash from a blockchain of a first-type blockchain network corresponding to the read network identifier
S504
Return the read first-type blockchain transaction to the user
S506

FIG. 5

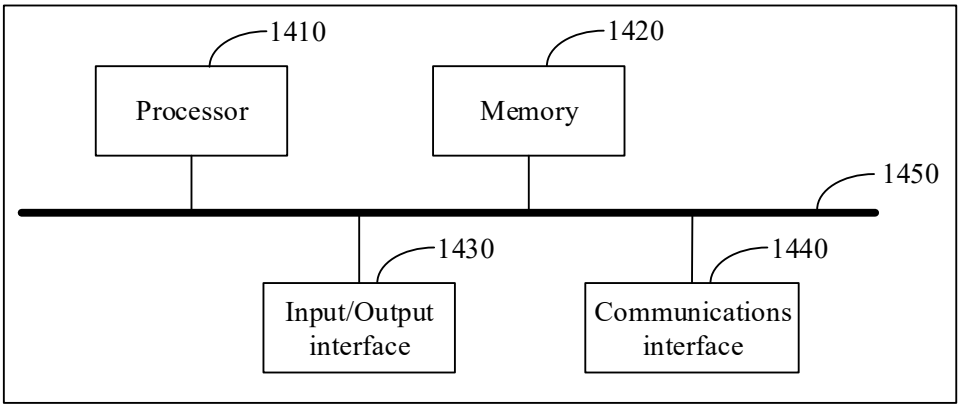
1410
Processor
1420
Memory
1450
1430
Input/Output interface
1440
Communications interface

FIG. 6