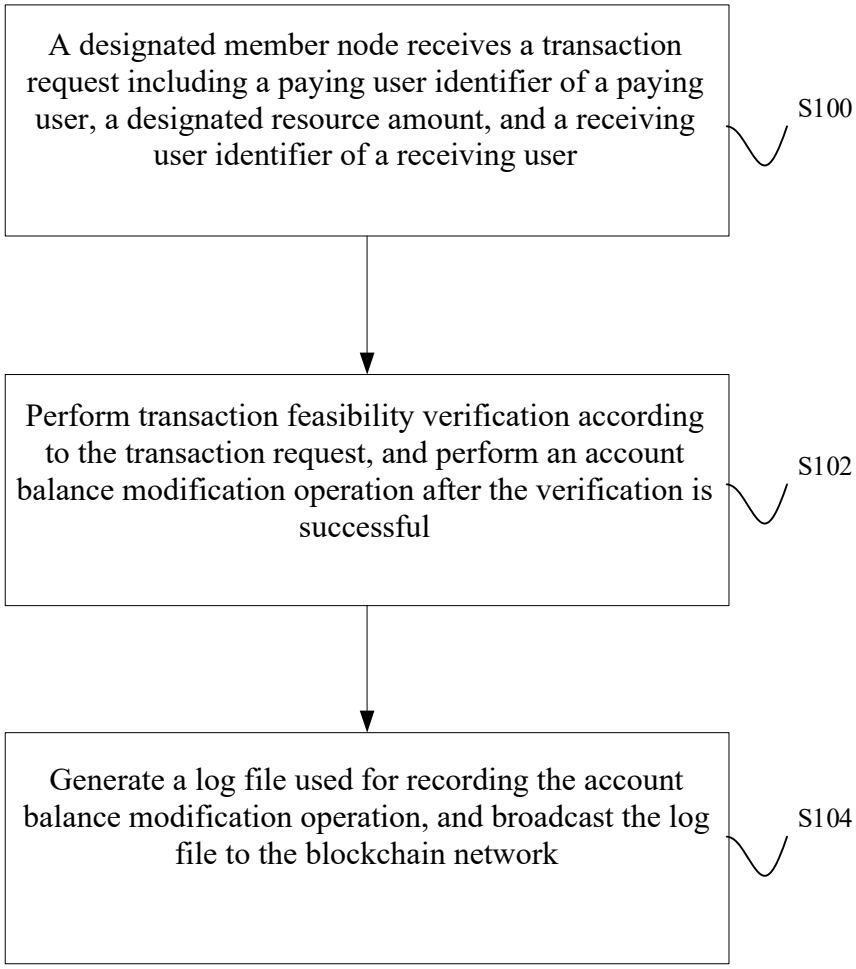
A designated member node receives a transaction request including a paying user identifier of a paying user, a designated resource amount, and a receiving user identifier of a receiving user
S100
Perform transaction feasibility verification according to the transaction request, and perform an account balance modification operation after the verification is successful
S102
Generate a log file used for recording the account balance modification operation, and broadcast the log file to the blockchain network
S104

FIG. 1

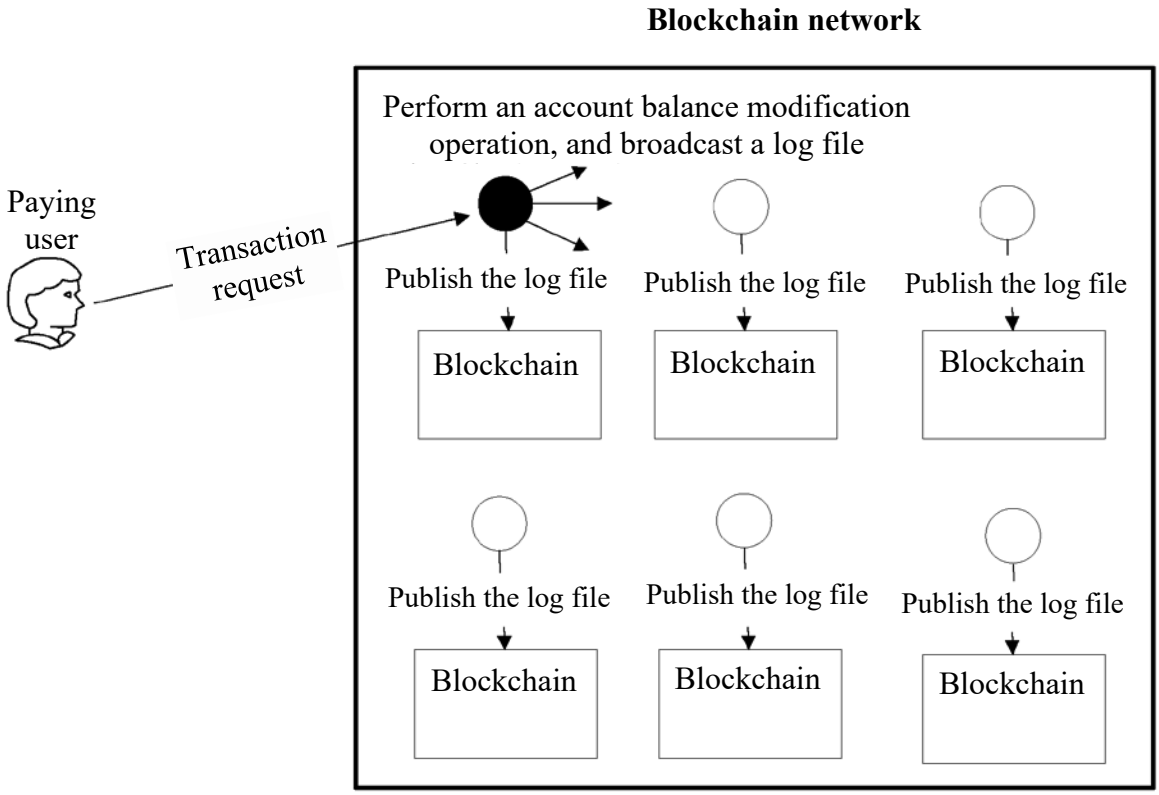
Blockchain network
Perform an account balance modification operation, and broadcast a log file
Paying user
Transaction request
Publish the log file
Blockchain
Publish the log file
Blockchain
Publish the log file
Blockchain
Publish the log file
Blockchain
Publish the log file
Blockchain
Publish the log file
Blockchain

FIG. 2a

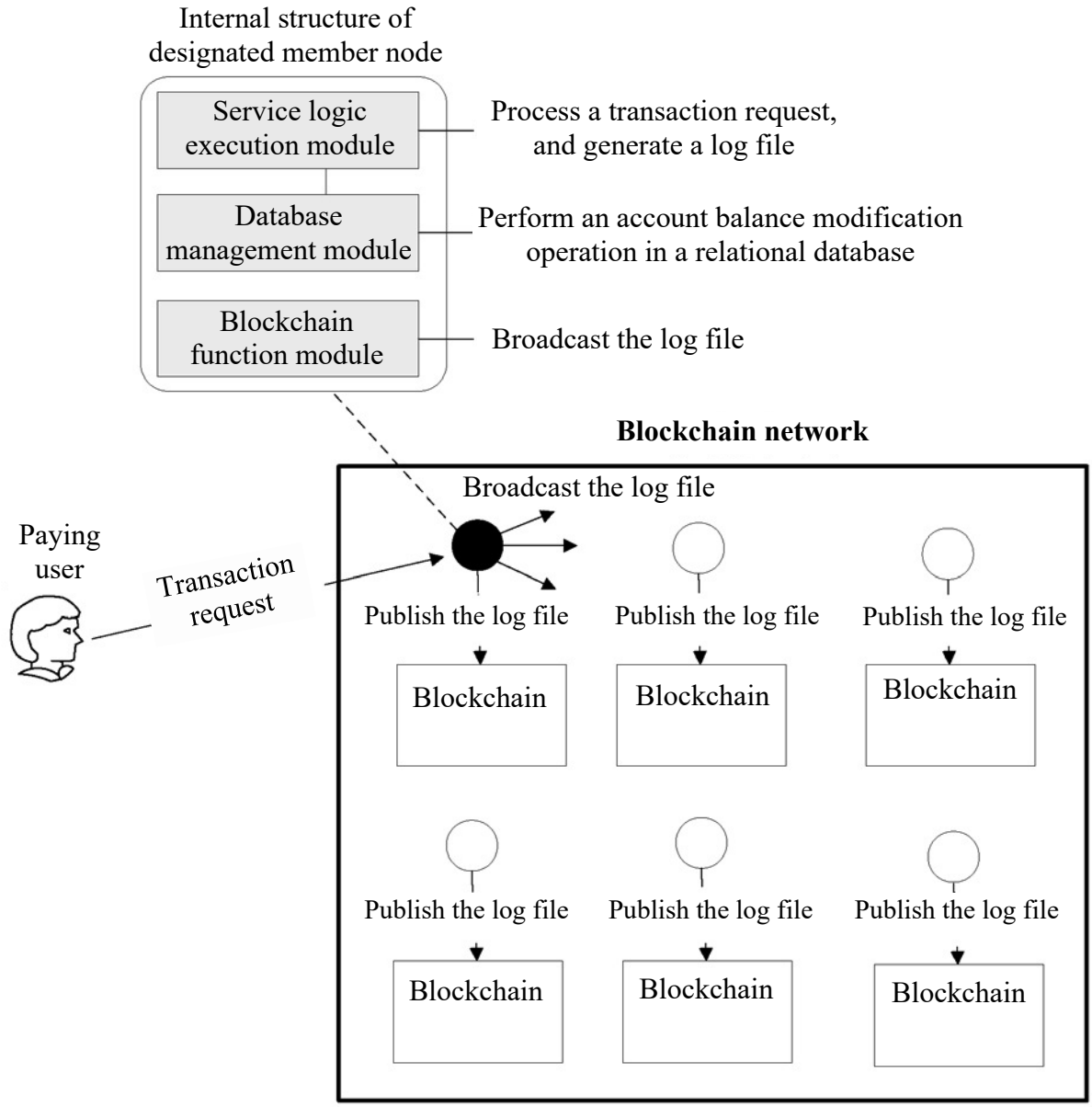
Internal structure of designated member node
Service logic execution module
Process a transaction request, and generate a log file
Database management module
Perform an account balance modification operation in a relational database
Blockchain function module
Broadcast the log file
Blockchain network
Broadcast the log file
Paying user
Transaction request
Publish the log file
Blockchain

FIG. 2b

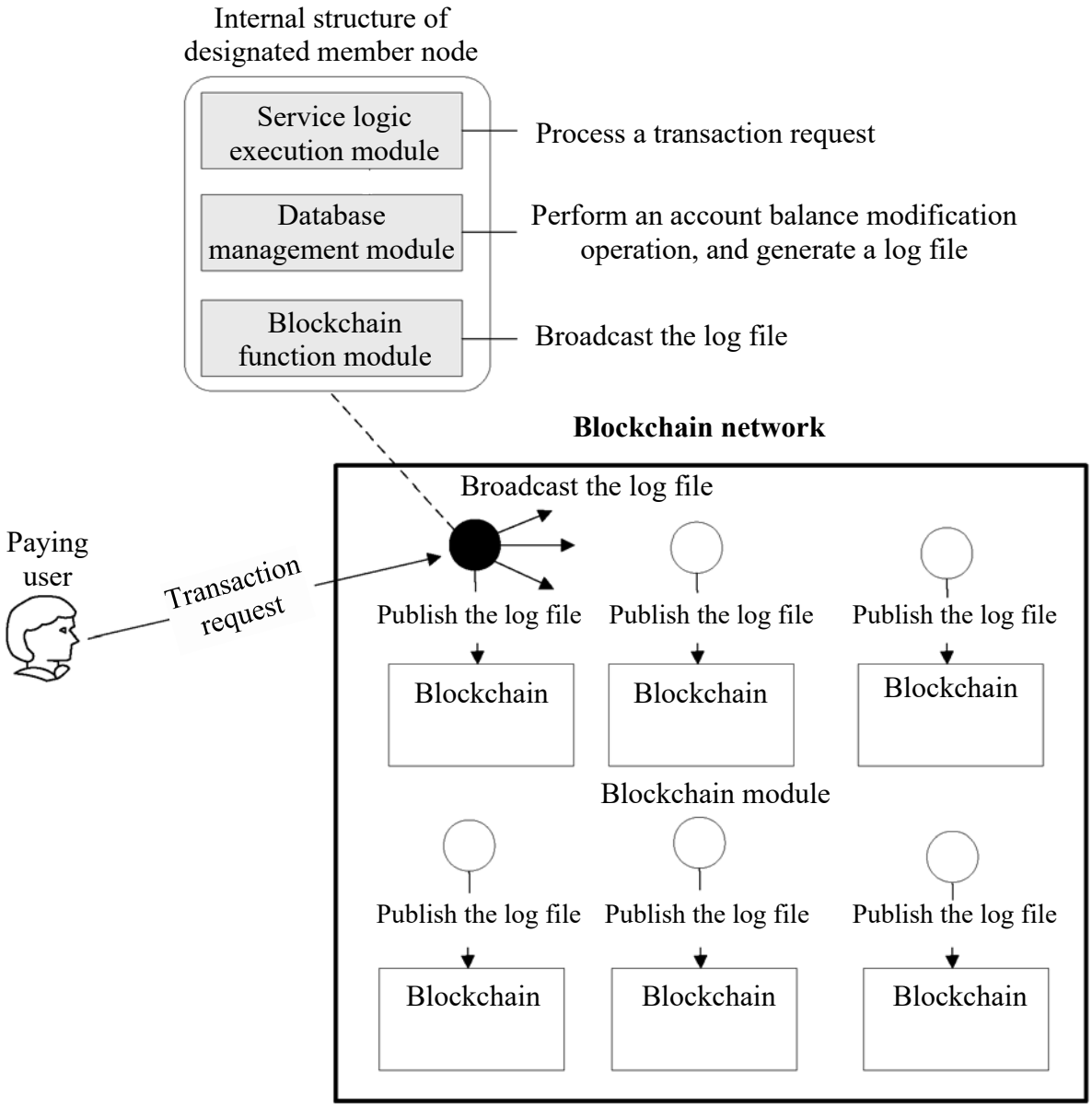
Internal structure of designated member node
Service logic execution module
Database management module
Blockchain function module
Process a transaction request
Perform an account balance modification operation, and generate a log file
Broadcast the log file
Blockchain network
Broadcast the log file
Paying user
Transaction request
Publish the log file
Publish the log file
Publish the log file
Blockchain
Blockchain
Blockchain
Blockchain module
Publish the log file
Publish the log file
Publish the log file
Blockchain
Blockchain
Blockchain

FIG. 2c

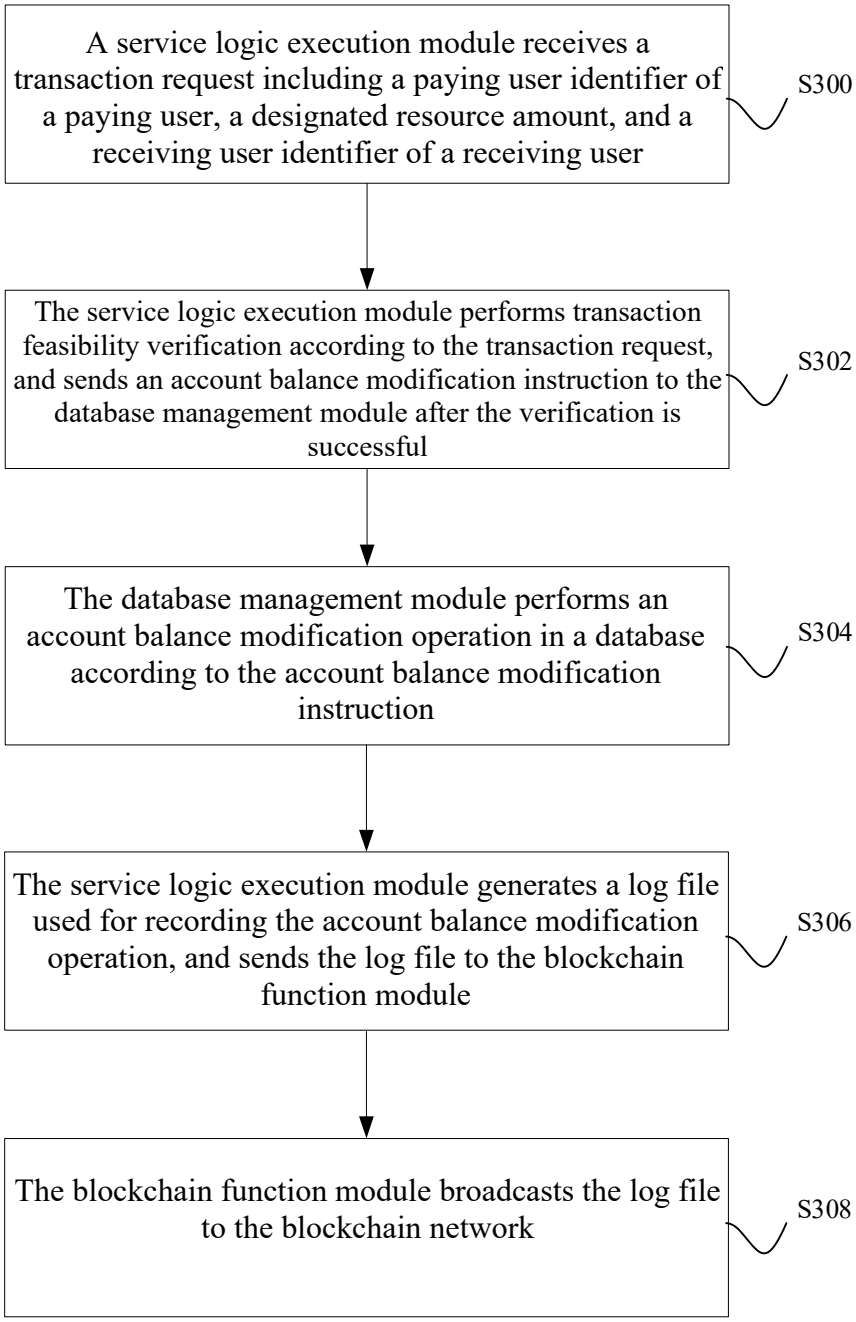
A service logic execution module receives a transaction request including a paying user identifier of a paying user, a designated resource amount, and a receiving user identifier of a receiving user
S300
The service logic execution module performs transaction feasibility verification according to the transaction request, and sends an account balance modification instruction to the database management module after the verification is successful
S302
The database management module performs an account balance modification operation in a database according to the account balance modification instruction
S304
The service logic execution module generates a log file used for recording the account balance modification operation, and sends the log file to the blockchain function module
S306
The blockchain function module broadcasts the log file to the blockchain network
S308

FIG. 3

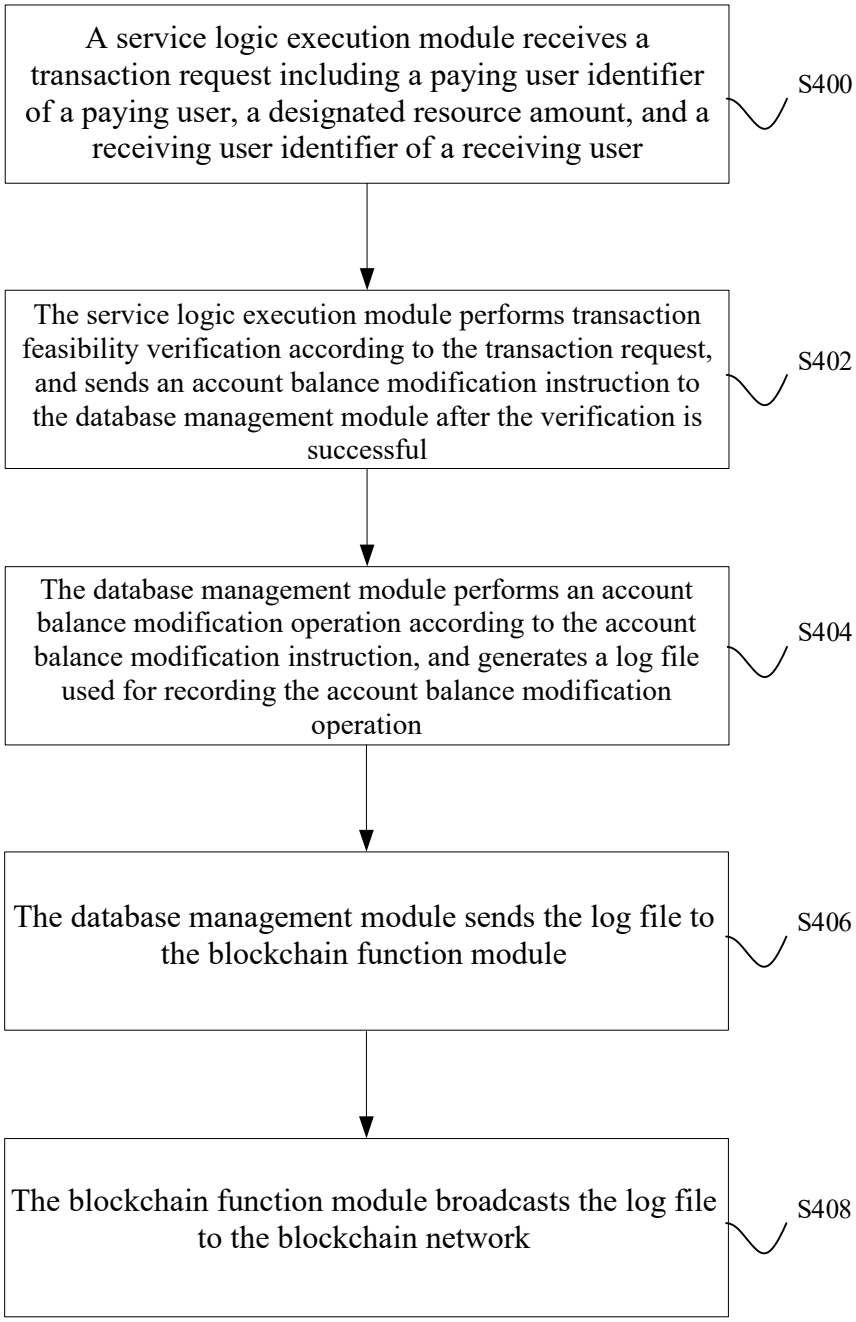
A service logic execution module receives a transaction request including a paying user identifier of a paying user, a designated resource amount, and a receiving user identifier of a receiving user
S400
The service logic execution module performs transaction feasibility verification according to the transaction request, and sends an account balance modification instruction to the database management module after the verification is successful
S402
The database management module performs an account balance modification operation according to the account balance modification instruction, and generates a log file used for recording the account balance modification operation
S404
The database management module sends the log file to the blockchain function module
S406
The blockchain function module broadcasts the log file to the blockchain network
S408

FIG. 4

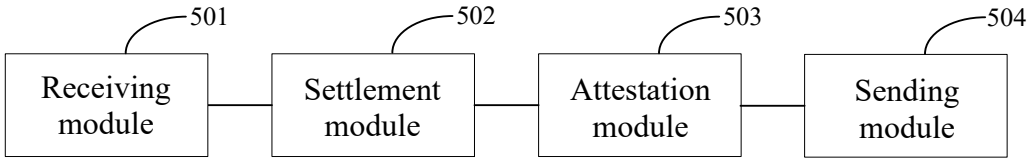

FIG. 5

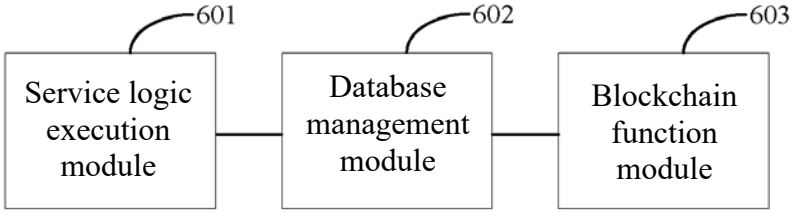

FIG. 6

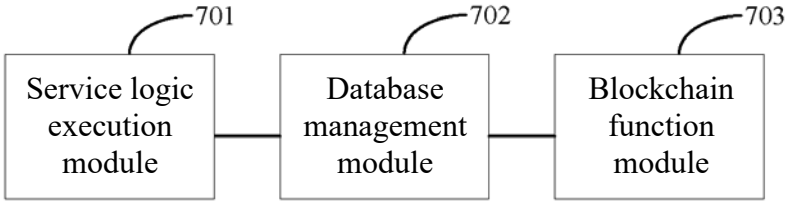

FIG. 7

Transaction system based on centralized settlement and blockchain attestation

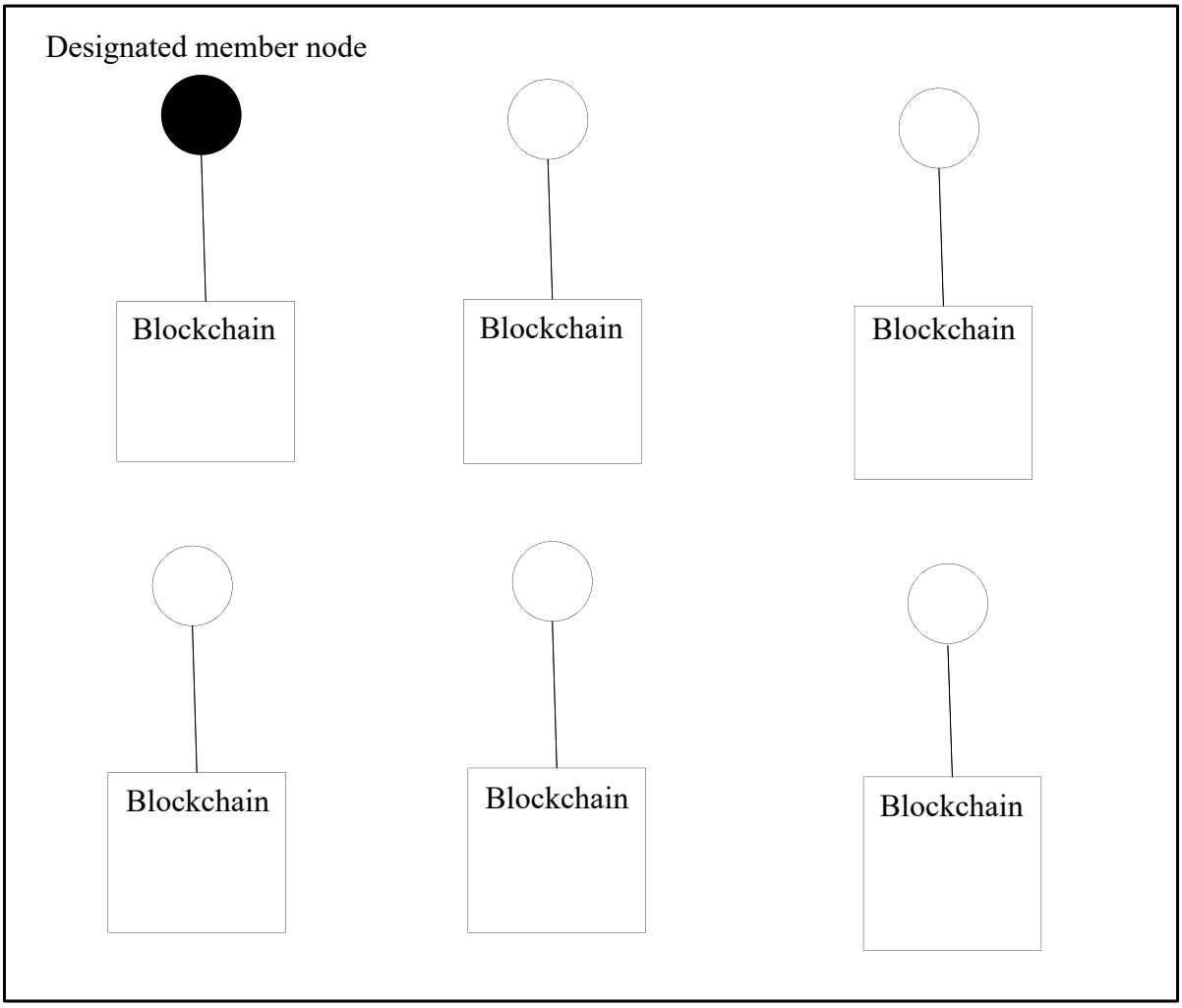

FIG. 8

Transaction system based on centralized settlement and blockchain attestation

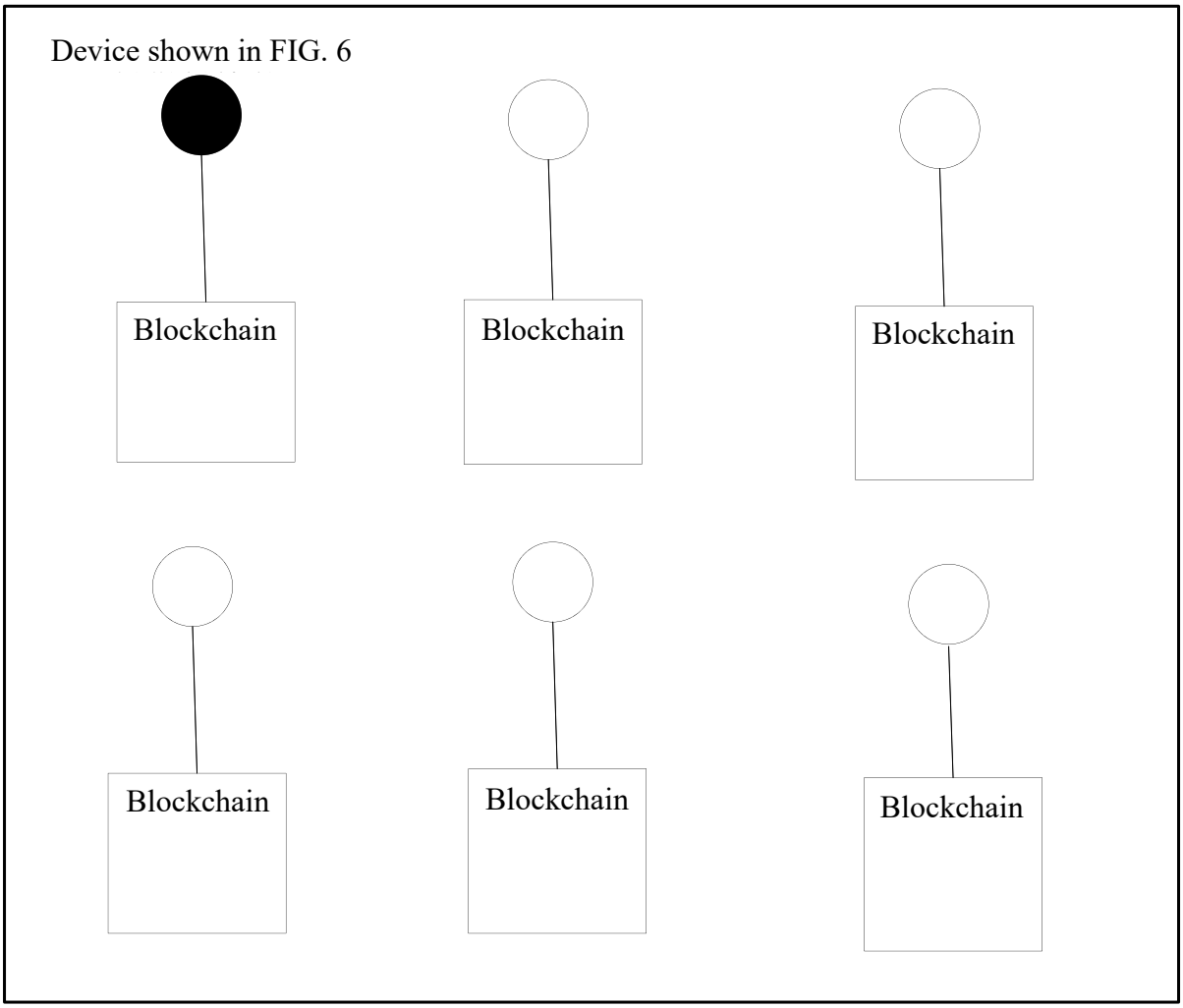

FIG. 9

Transaction system based on centralized settlement and blockchain attestation

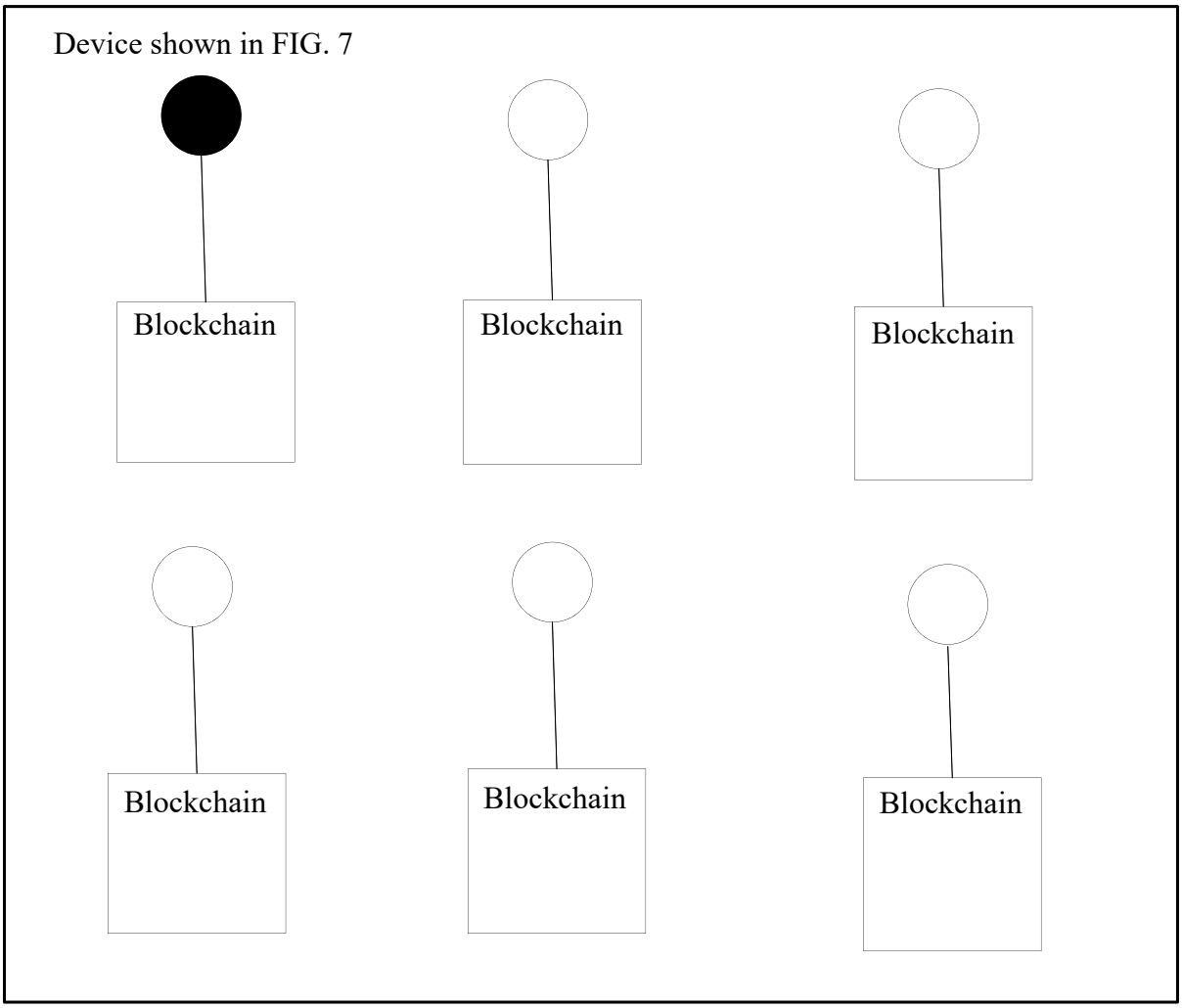

FIG. 10

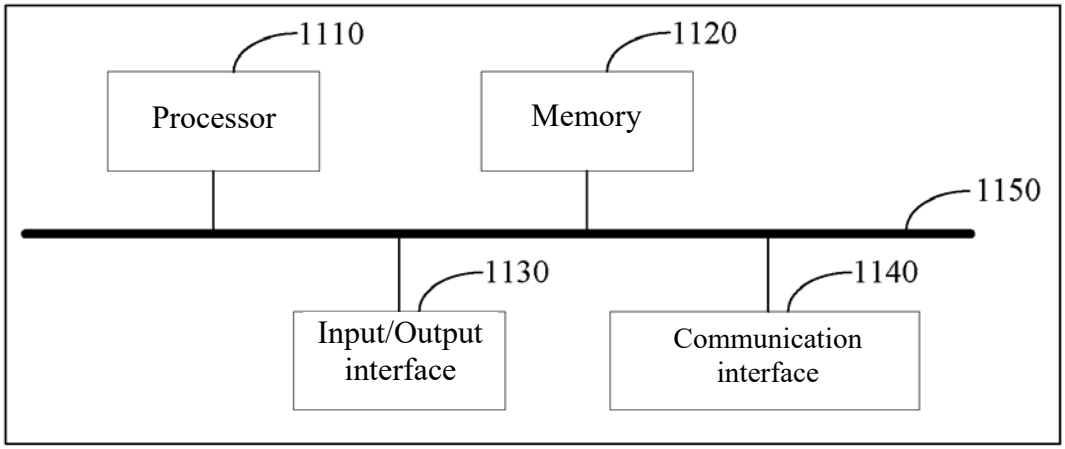

FIG. 11