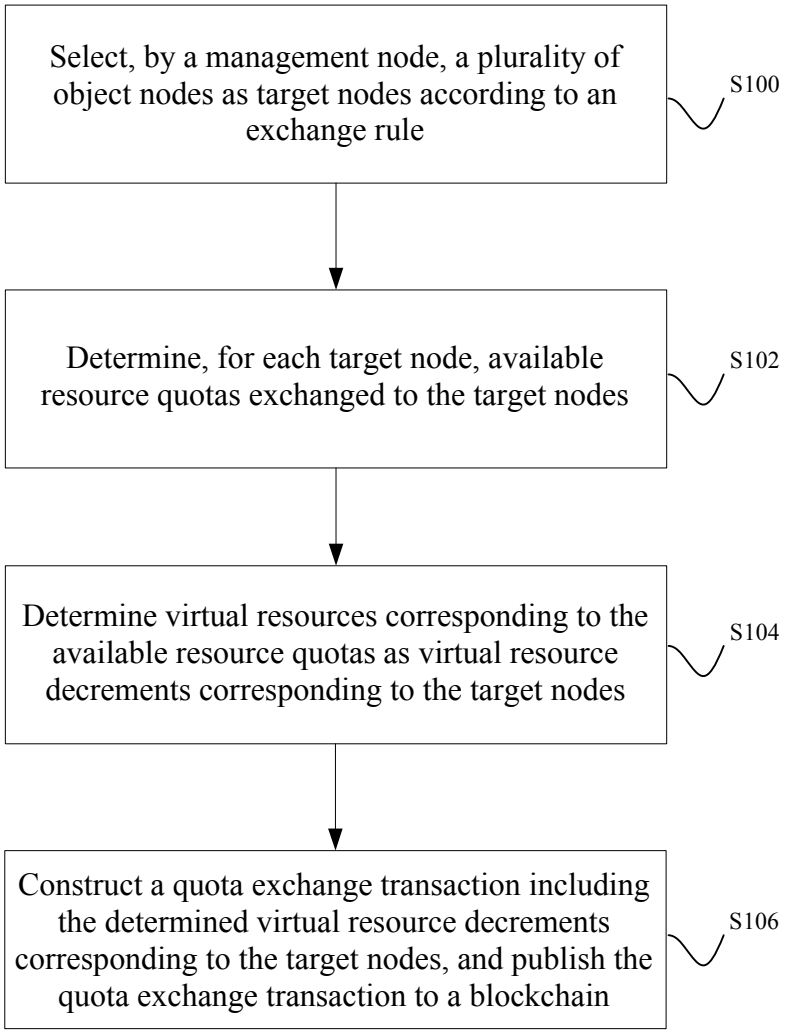
Select, by a management node, a plurality of object nodes as target nodes according to an exchange rule
S100
Determine, for each target node, available resource quotas exchanged to the target nodes
S102
Determine virtual resources corresponding to the available resource quotas as virtual resource decrements corresponding to the target nodes
S104
Construct a quota exchange transaction including the determined virtual resource decrements corresponding to the target nodes, and publish the quota exchange transaction to a blockchain
S106

FIG. 1

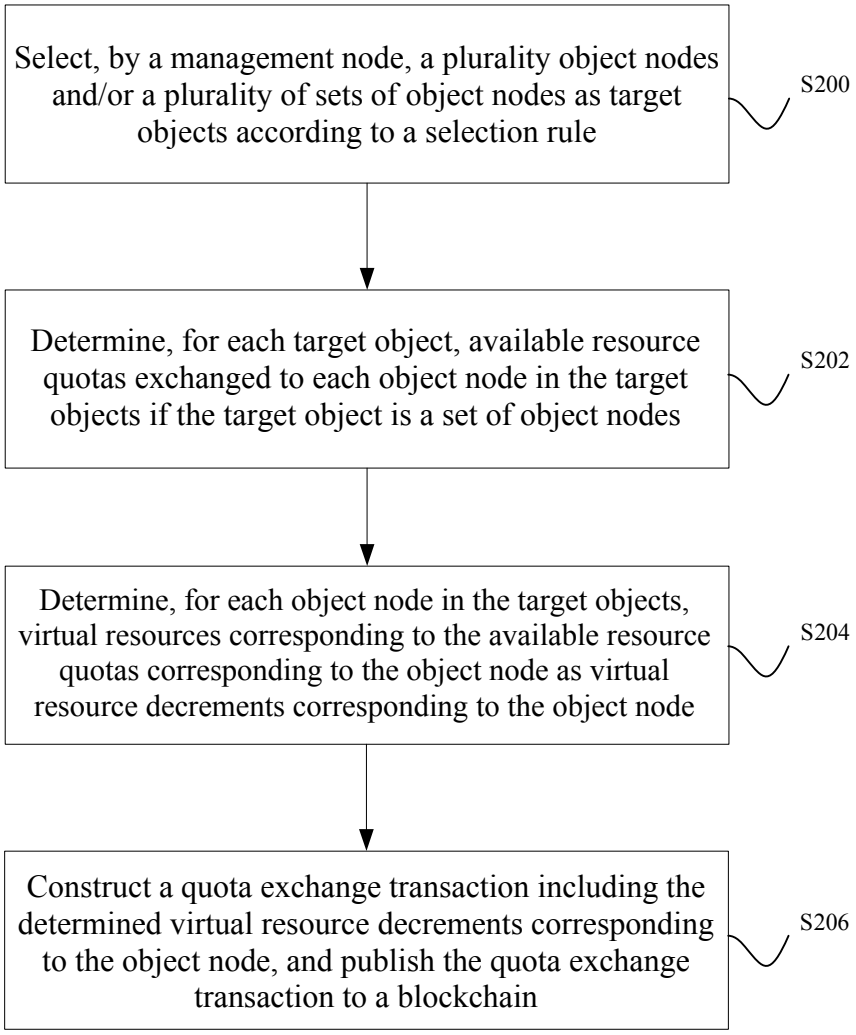
Select, by a management node, a plurality object nodes and/or a plurality of sets of object nodes as target objects according to a selection rule
S200
Determine, for each target object, available resource quotas exchanged to each object node in the target objects if the target object is a set of object nodes
S202
Determine, for each object node in the target objects, virtual resources corresponding to the available resource quotas corresponding to the object node as virtual resource decrements corresponding to the object node
S204
Construct a quota exchange transaction including the determined virtual resource decrements corresponding to the object node, and publish the quota exchange transaction to a blockchain
S206

FIG. 2

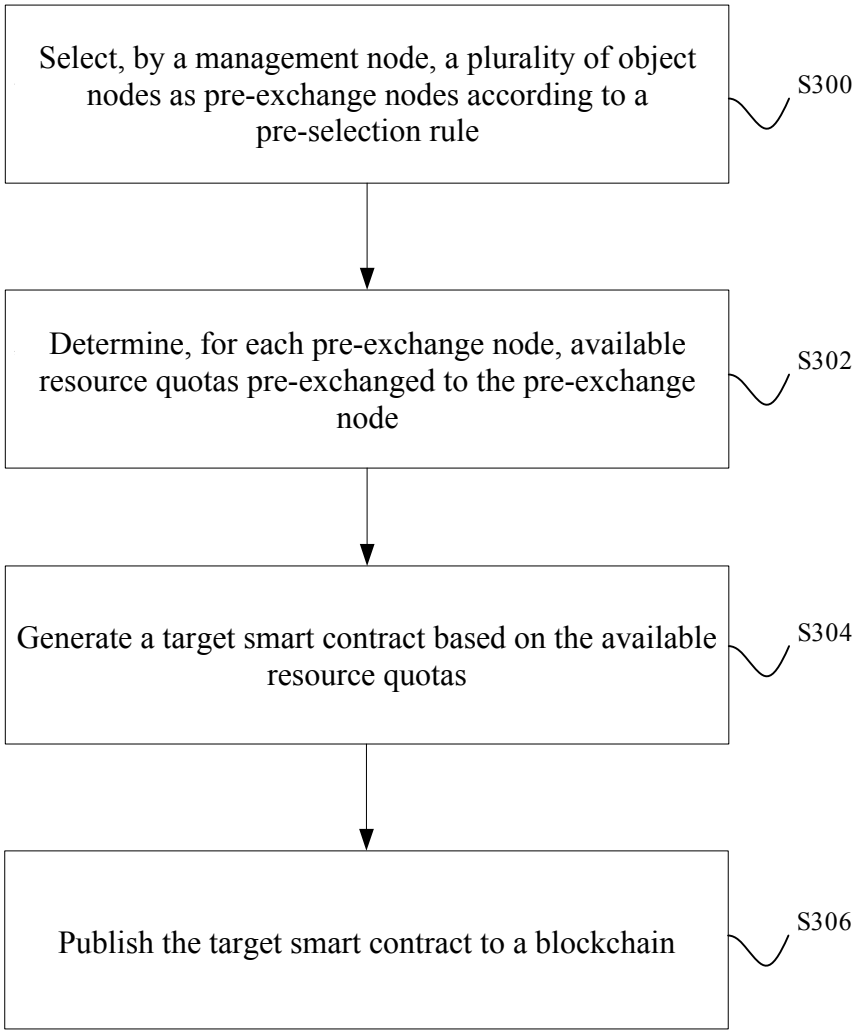
Select, by a management node, a plurality of object nodes as pre-exchange nodes according to a pre-selection rule
S300
Determine, for each pre-exchange node, available resource quotas pre-exchanged to the pre-exchange node
S302
Generate a target smart contract based on the available resource quotas
S304
Publish the target smart contract to a blockchain
S306

FIG. 3

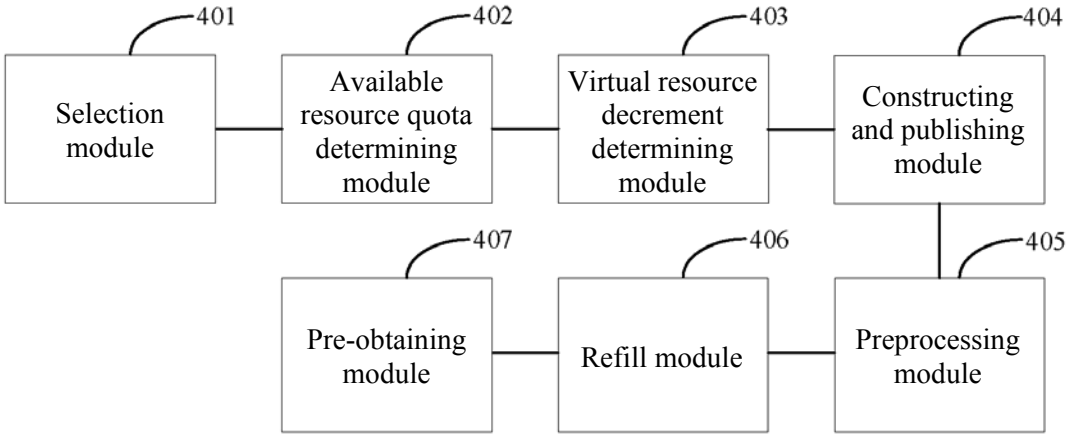
401
Selection module
402
Available resource quota determining module
403
Virtual resource decrement determining module
404
Constructing and publishing module
405
Preprocessing module
406
Refill module
407
Pre-obtaining module

FIG. 4

Blockchain-based exchange system for available resource quotas

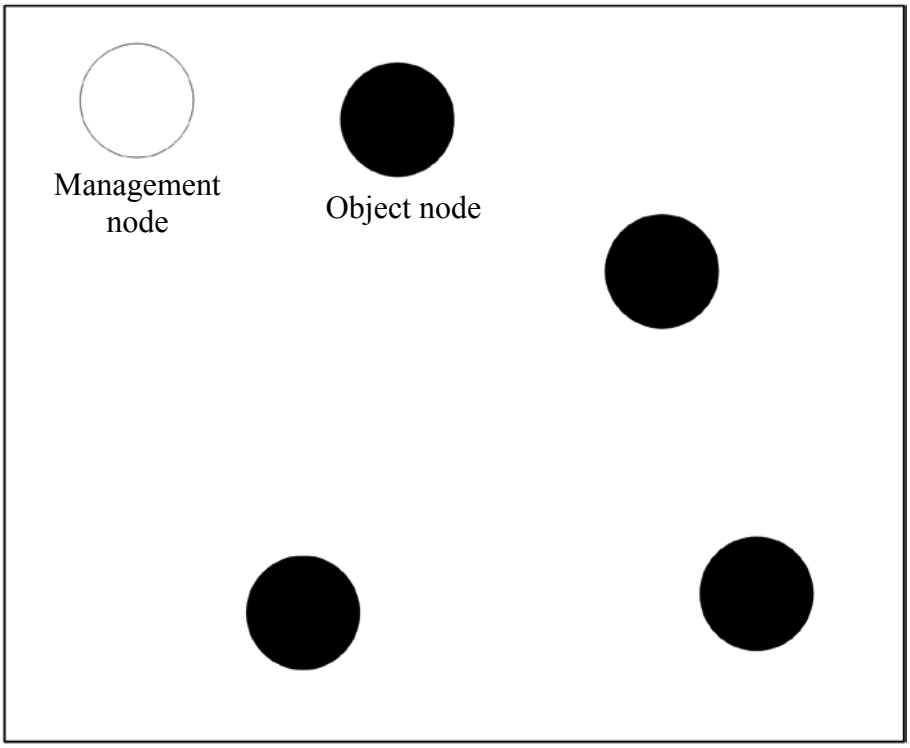

FIG. 5

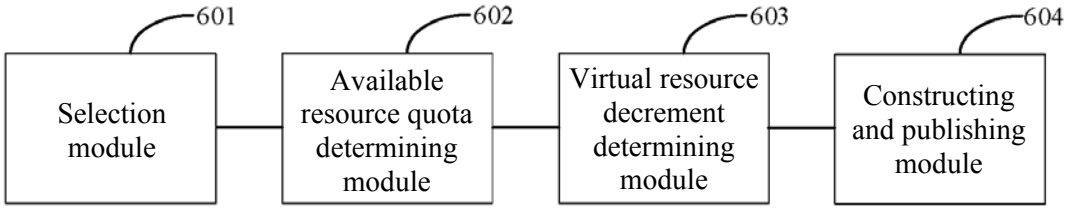

FIG. 6

Blockchain-based exchange system for available resource quotas

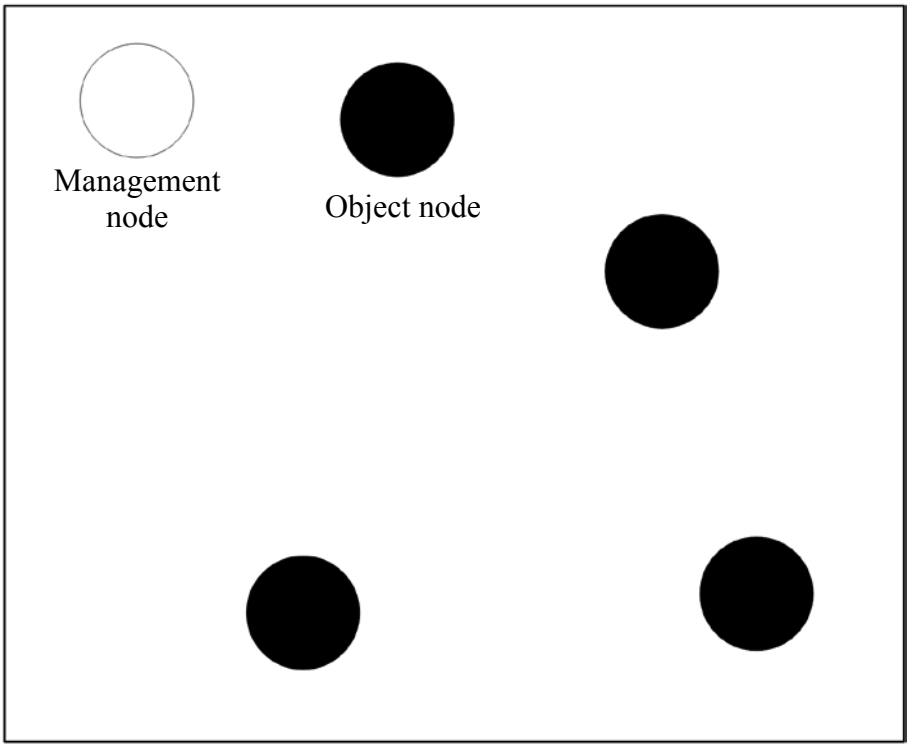

FIG. 7

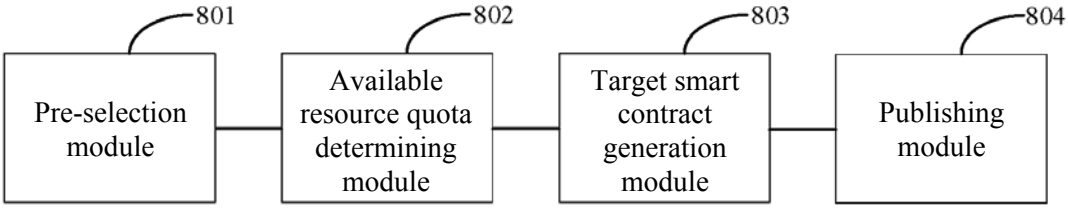

FIG. 8

Blockchain-based pre-exchange system for available resource quotas

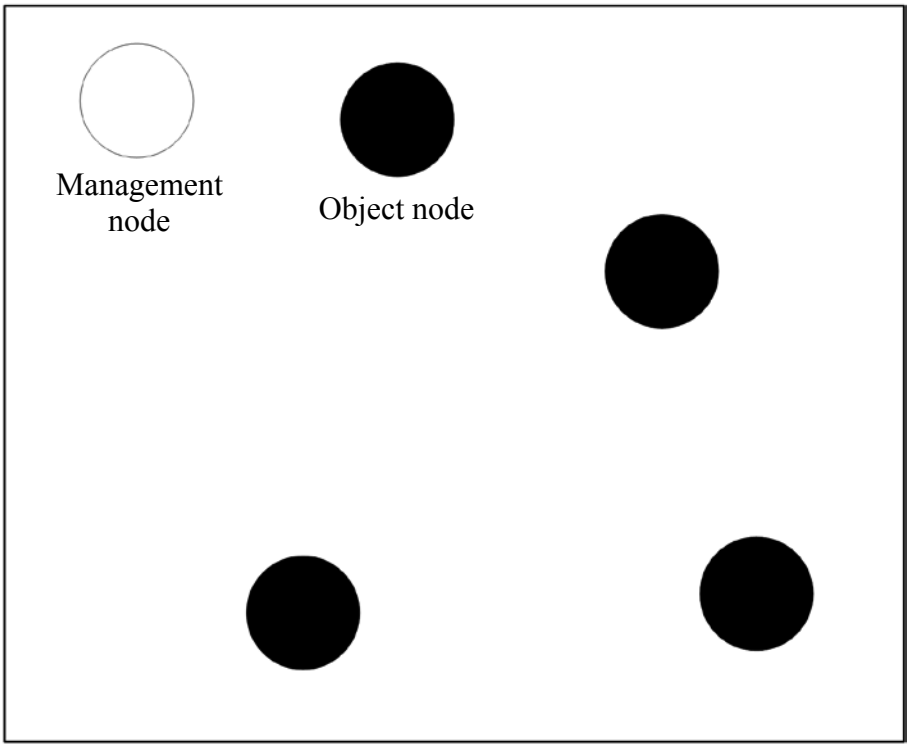

FIG. 9

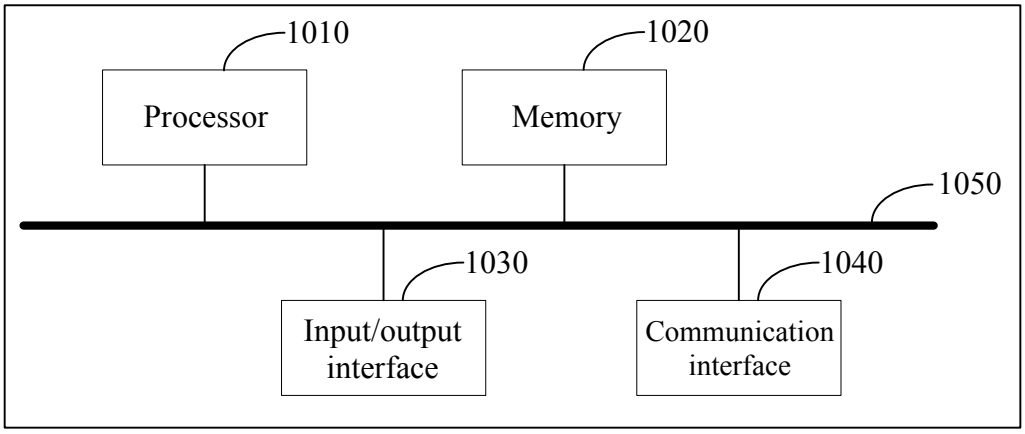

FIG. 10