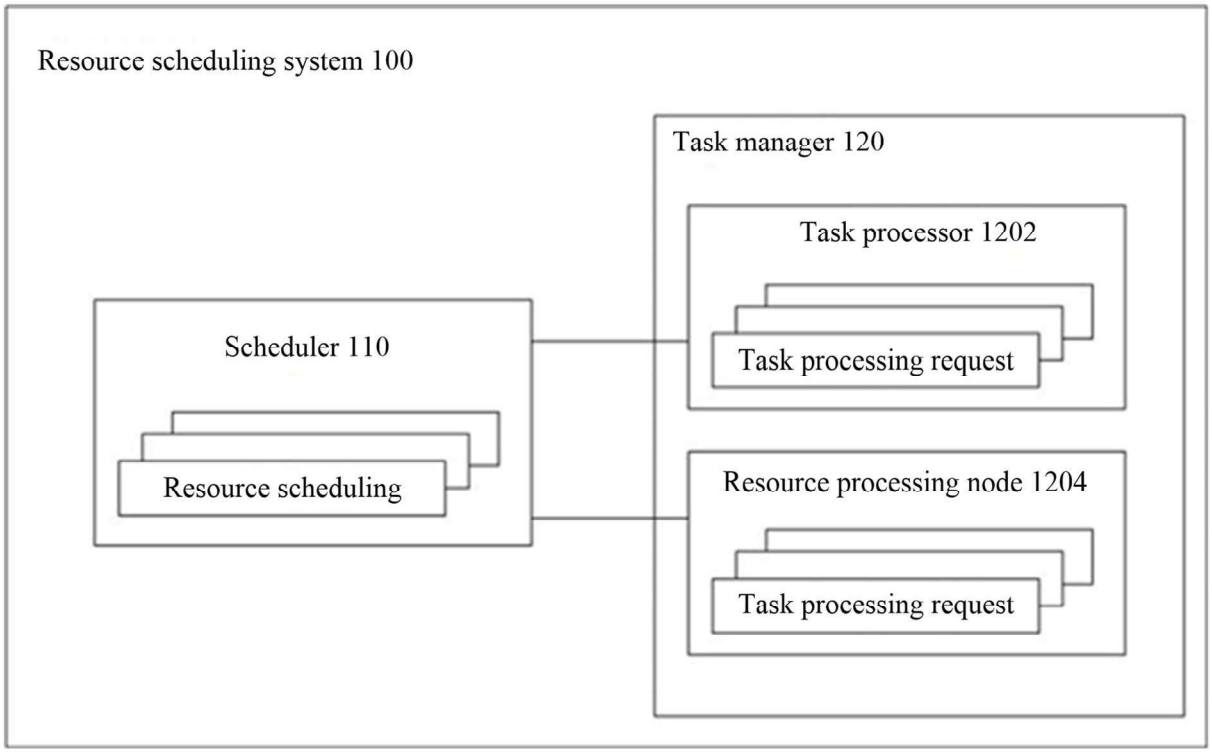
Resource scheduling system 100
Task manager 120
Task processor 1202
Task processing request
Scheduler 110
Resource scheduling
Resource processing node 1204
Task processing request

FIG. 1

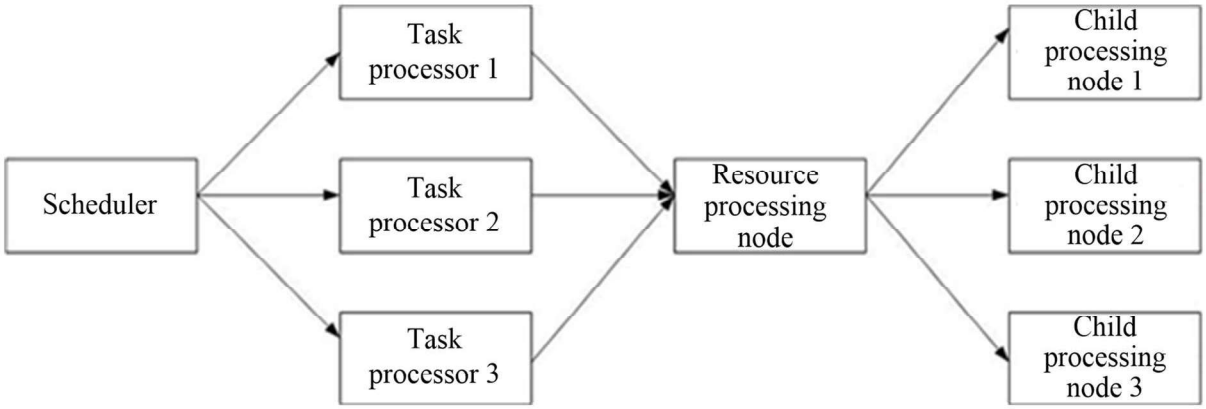
Scheduler
Task processor 1
Task processor 2
Task processor 3
Resource processing node
Child processing node 1
Child processing node 2
Child processing node 3

FIG. 2

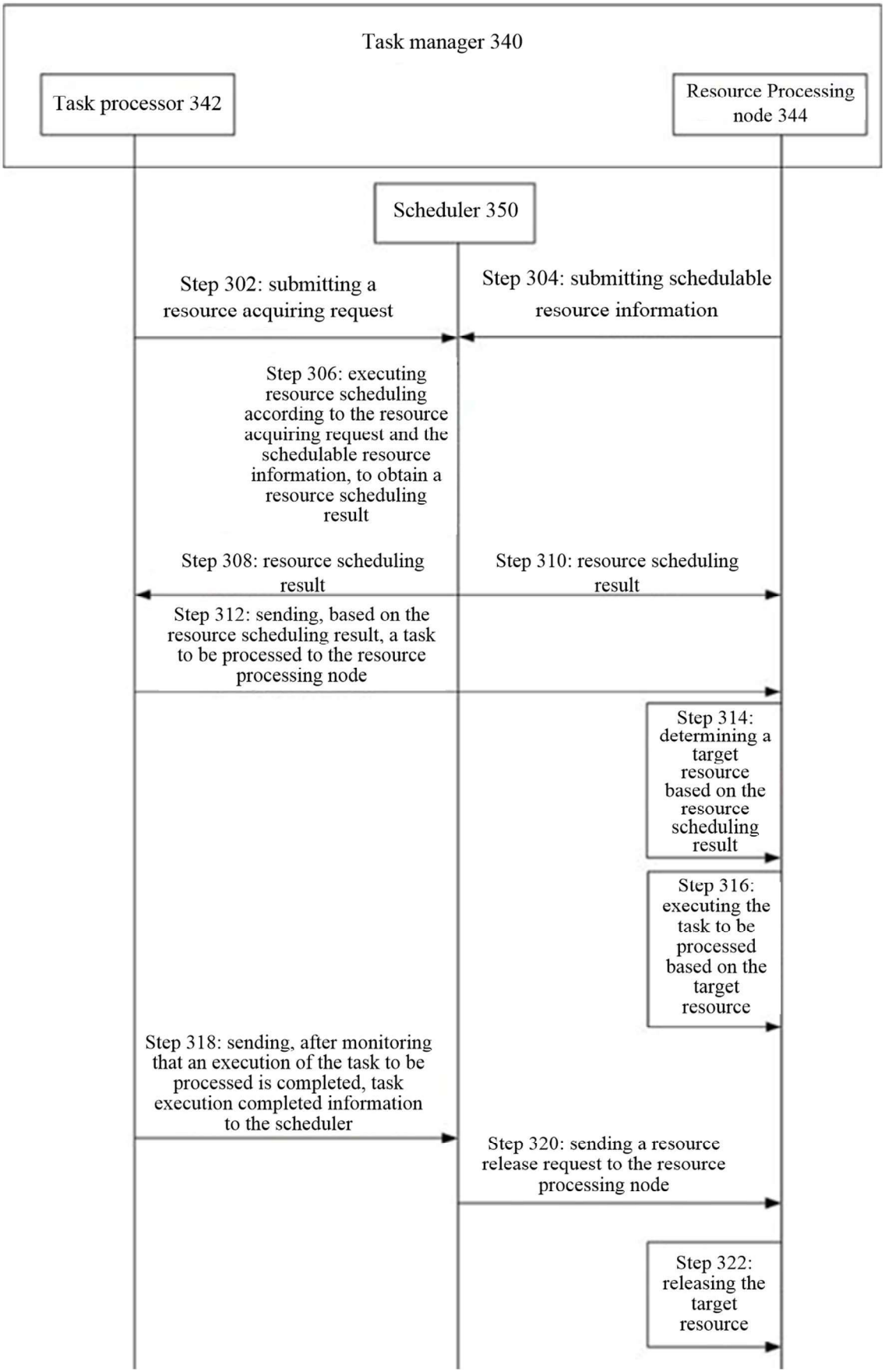
Task manager 340
Task processor 342
Resource Processing node 344
Scheduler 350
Step 302: submitting a resource acquiring request
Step 304: submitting schedulable resource information
Step 306: executing resource scheduling according to the resource acquiring request and the schedulable resource information, to obtain a resource scheduling result
Step 308: resource scheduling result
Step 310: resource scheduling result
Step 312: sending, based on the resource scheduling result, a task to be processed to the resource processing node
Step 314: determining a target resource based on the resource scheduling result
Step 316: executing the task to be processed based on the target resource
Step 318: sending, after monitoring that an execution of the task to be processed is completed, task execution completed information to the scheduler
Step 320: sending a resource release request to the resource processing node
Step 322: releasing the target resource

FIG. 3

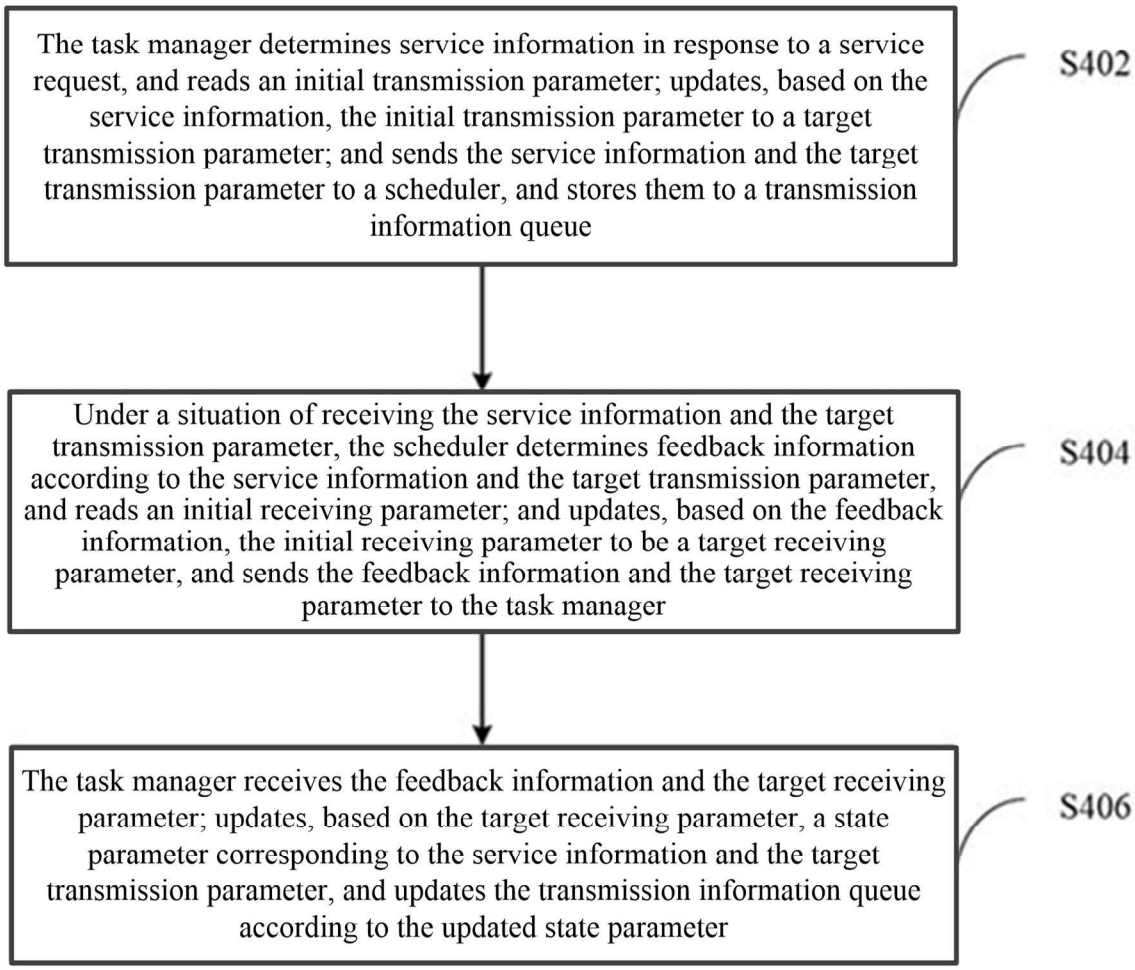
The task manager determines service information in response to a service request, and reads an initial transmission parameter; updates, based on the service information, the initial transmission parameter to a target transmission parameter; and sends the service information and the target transmission parameter to a scheduler, and stores them to a transmission information queue
S402
Under a situation of receiving the service information and the target transmission parameter, the scheduler determines feedback information according to the service information and the target transmission parameter, and reads an initial receiving parameter; and updates, based on the feedback information, the initial receiving parameter to be a target receiving parameter, and sends the feedback information and the target receiving parameter to the task manager
S404
The task manager receives the feedback information and the target receiving parameter; updates, based on the target receiving parameter, a state parameter corresponding to the service information and the target transmission parameter, and updates the transmission information queue according to the updated state parameter
S406

FIG. 4

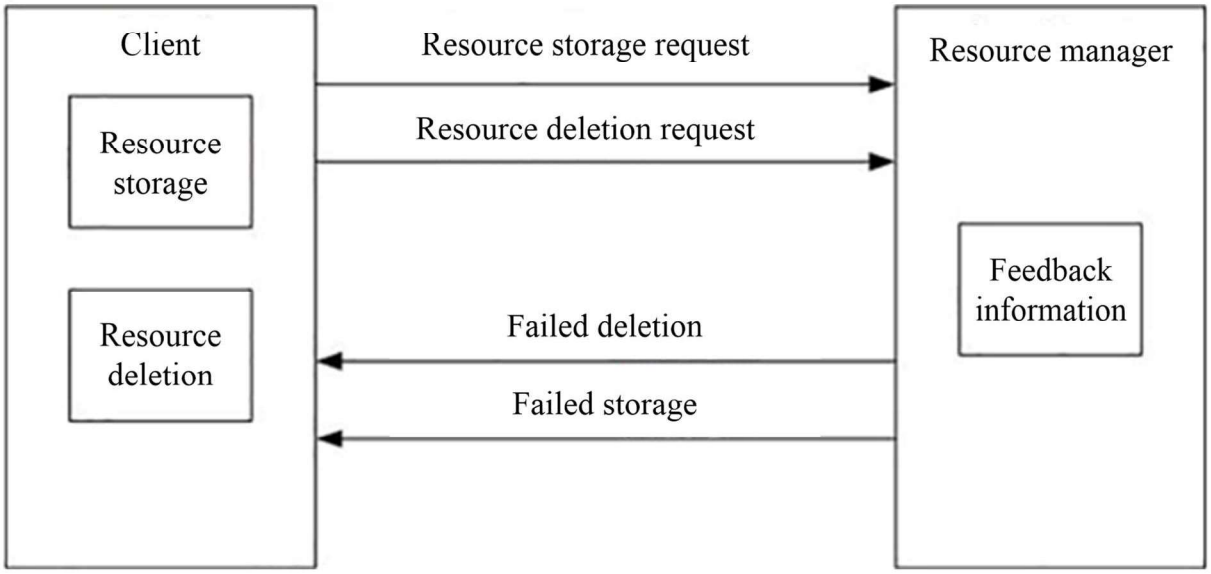
Client
Resource storage
Resource deletion
Resource storage request
Resource deletion request
Failed deletion
Failed storage
Resource manager
Feedback information

FIG. 5

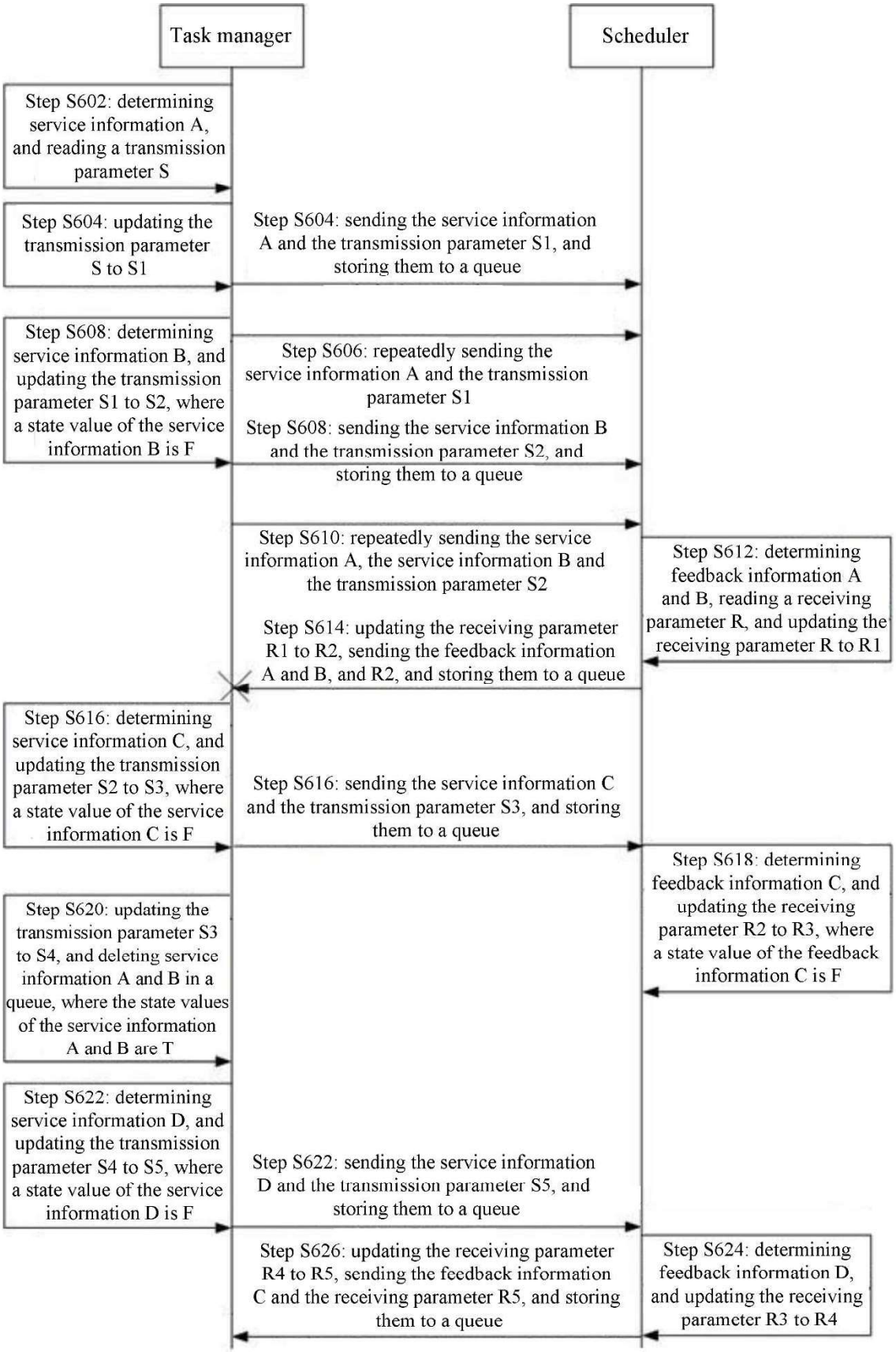
Task manager
Scheduler
Step S602: determining service information A, and reading a transmission parameter S
Step S604: updating the transmission parameter S to S1
Step S604: sending the service information A and the transmission parameter S1, and storing them to a queue
Step S608: determining service information B, and updating the transmission parameter S1 to S2, where a state value of the service information B is F
Step S606: repeatedly sending the service information A and the transmission parameter S1
Step S608: sending the service information B and the transmission parameter S2, and storing them to a queue
Step S610: repeatedly sending the service information A, the service information B and the transmission parameter S2
Step S612: determining feedback information A and B, reading a receiving parameter R, and updating the receiving parameter R to R1
Step S614: updating the receiving parameter R1 to R2, sending the feedback information A and B, and R2, and storing them to a queue
Step S616: determining service information C, and updating the transmission parameter S2 to S3, where a state value of the service information C is F
Step S616: sending the service information C and the transmission parameter S3, and storing them to a queue
Step S618: determining feedback information C, and updating the receiving parameter R2 to R3, where a state value of the feedback information C is F
Step S620: updating the transmission parameter S3 to S4, and deleting service information A and B in a queue, where the state values of the service information A and B are T
Step S622: determining service information D, and updating the transmission parameter S4 to S5, where a state value of the service information D is F
Step S622: sending the service information D and the transmission parameter S5, and storing them to a queue
Step S626: updating the receiving parameter R4 to R5, sending the feedback information C and the receiving parameter R5, and storing them to a queue
Step S624: determining feedback information D, and updating the receiving parameter R3 to R4

FIG. 6

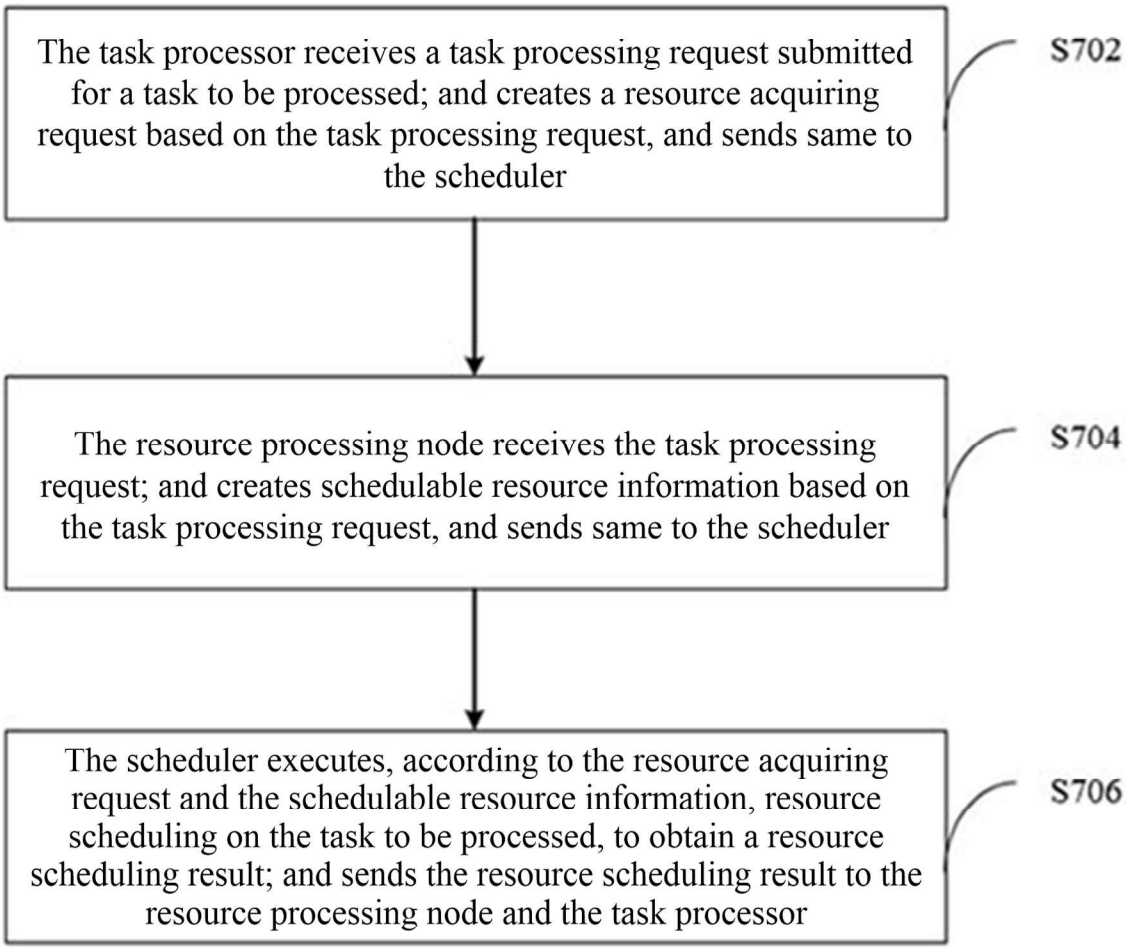
The task processor receives a task processing request submitted for a task to be processed; and creates a resource acquiring request based on the task processing request, and sends same to the scheduler
S702
The resource processing node receives the task processing request; and creates schedulable resource information based on the task processing request, and sends same to the scheduler
S704
The scheduler executes, according to the resource acquiring request and the schedulable resource information, resource scheduling on the task to be processed, to obtain a resource scheduling result; and sends the resource scheduling result to the resource processing node and the task processor
S706

FIG. 7

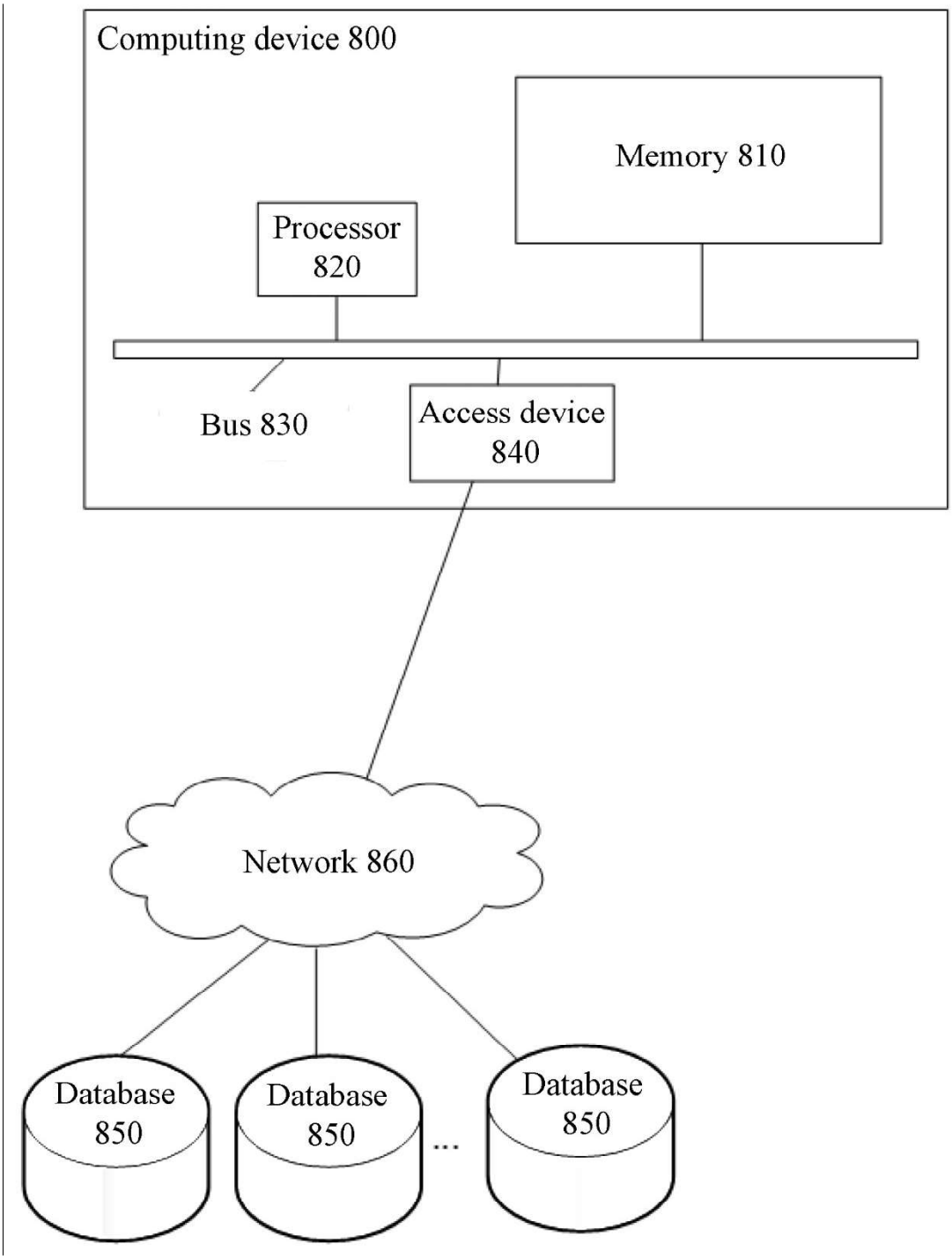
Computing device 800
Memory 810
Processor 820
Bus 830
Access device 840
Network 860
Database 850
Database 850
...
Database 850

FIG. 8