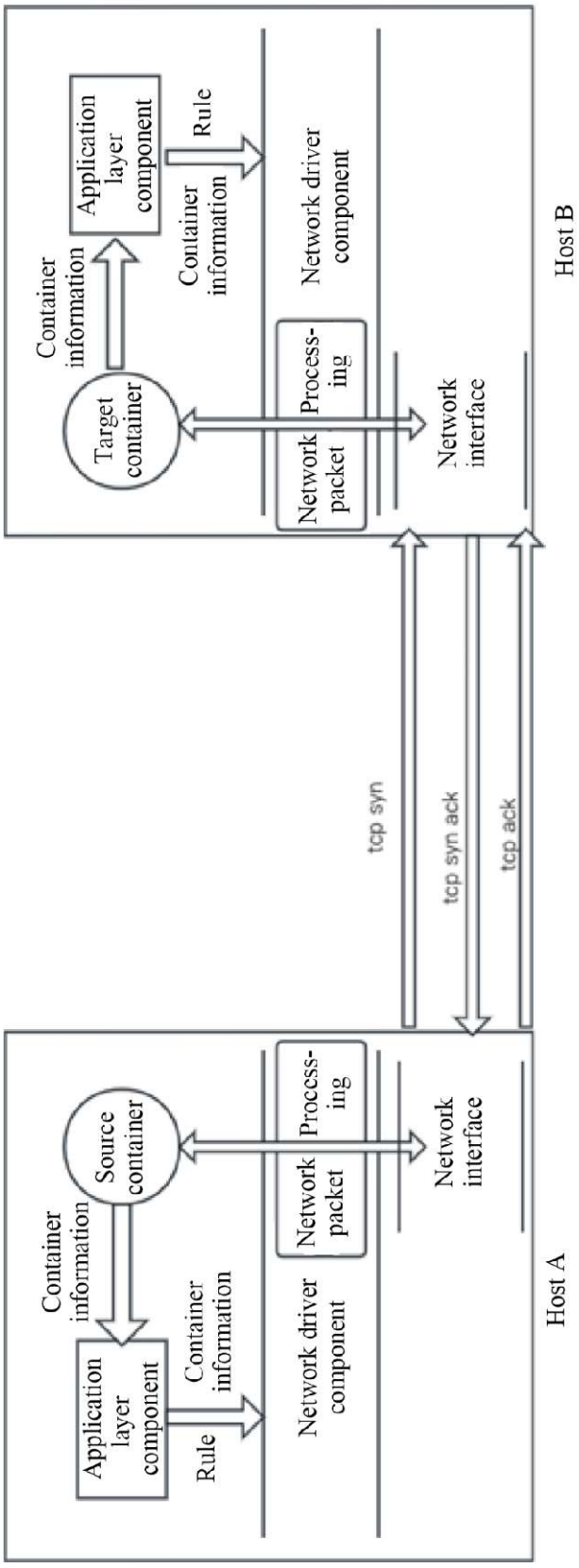

Host A
Application layer component
Container information
Rule
Container information
Source container
Network driver component
Process-ing
Network packet
Network interface
tcp syn
tcp syn ack
tcp ack
Host B
Application layer component
Container information
Rule
Container information
Target container
Network driver component
Process-ing
Network packet
Network interface

FIG. 1

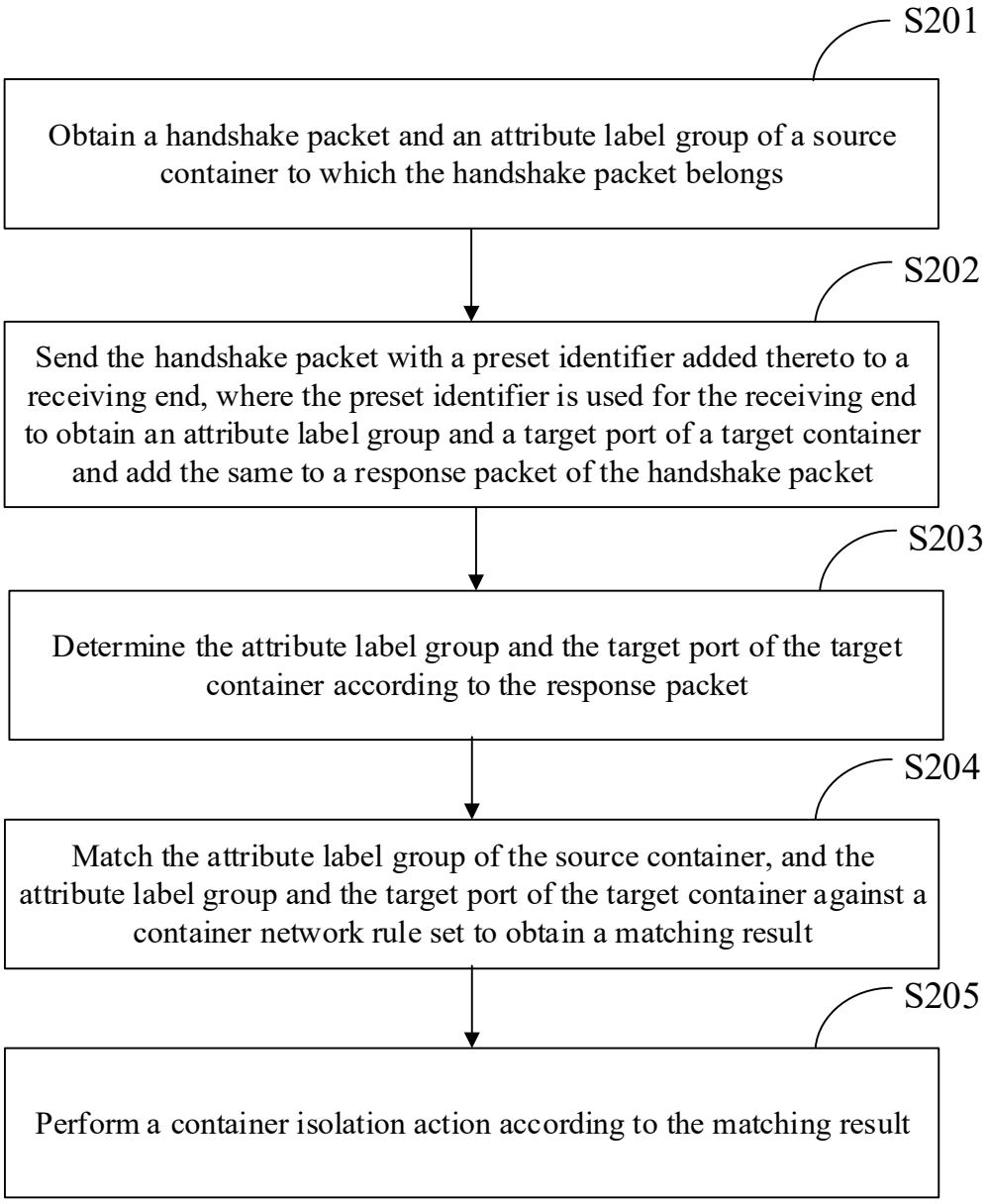

S201
Obtain a handshake packet and an attribute label group of a source container to which the handshake packet belongs
S202
Send the handshake packet with a preset identifier added thereto to a receiving end, where the preset identifier is used for the receiving end to obtain an attribute label group and a target port of a target container and add the same to a response packet of the handshake packet
S203
Determine the attribute label group and the target port of the target container according to the response packet
S204
Match the attribute label group of the source container, and the attribute label group and the target port of the target container against a container network rule set to obtain a matching result
S205
Perform a container isolation action according to the matching result

FIG. 2

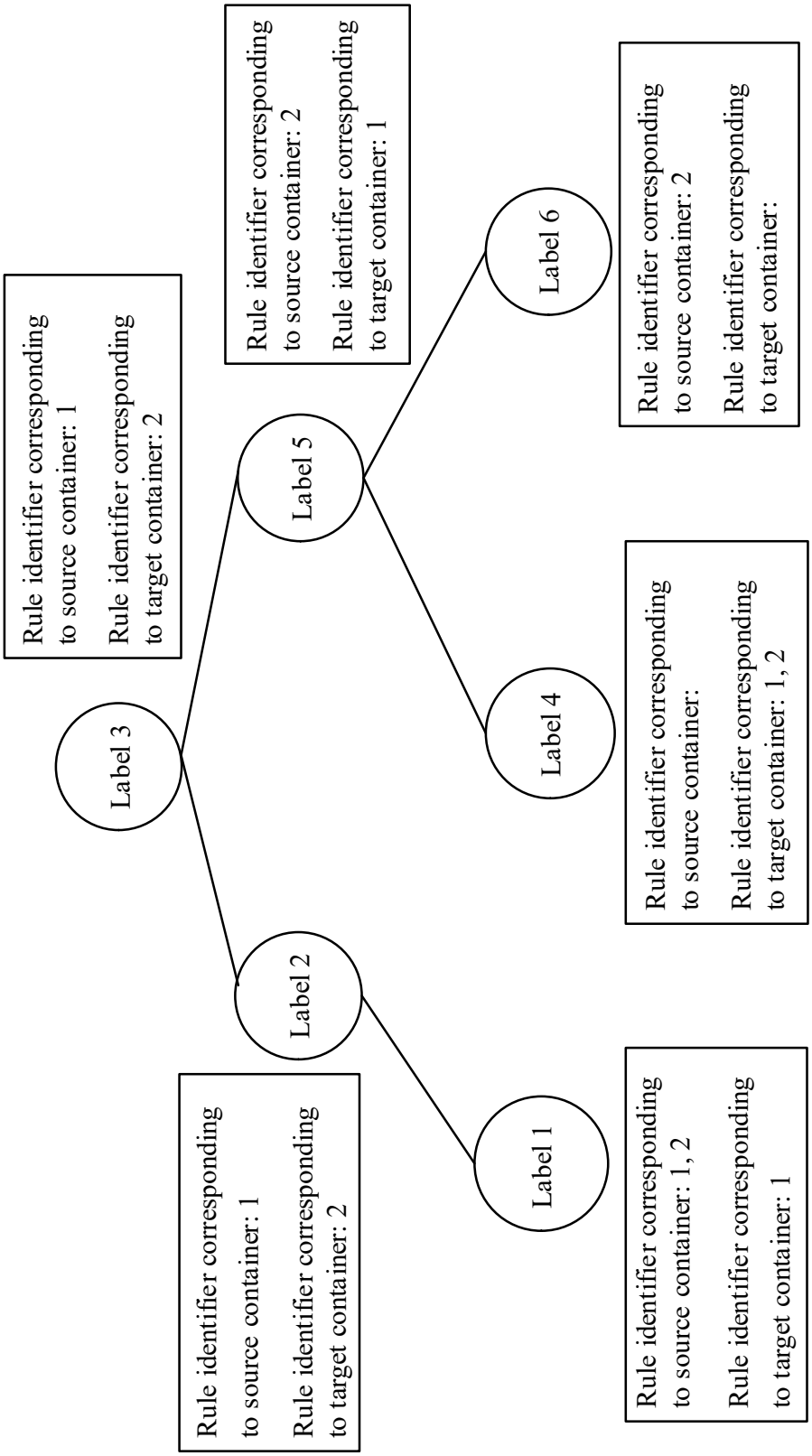

Label 3
Label 2
Label 1
Label 5
Label 4
Label 6
Rule identifier corresponding to source container: 1
Rule identifier corresponding to target container: 2
Rule identifier corresponding to source container: 1
Rule identifier corresponding to target container: 2
Rule identifier corresponding to source container: 2
Rule identifier corresponding to target container: 1
Rule identifier corresponding to source container:
Rule identifier corresponding to target container: 1, 2
Rule identifier corresponding to source container: 2
Rule identifier corresponding to target container:
Rule identifier corresponding to source container: 1, 2
Rule identifier corresponding to target container: 1

FIG. 3

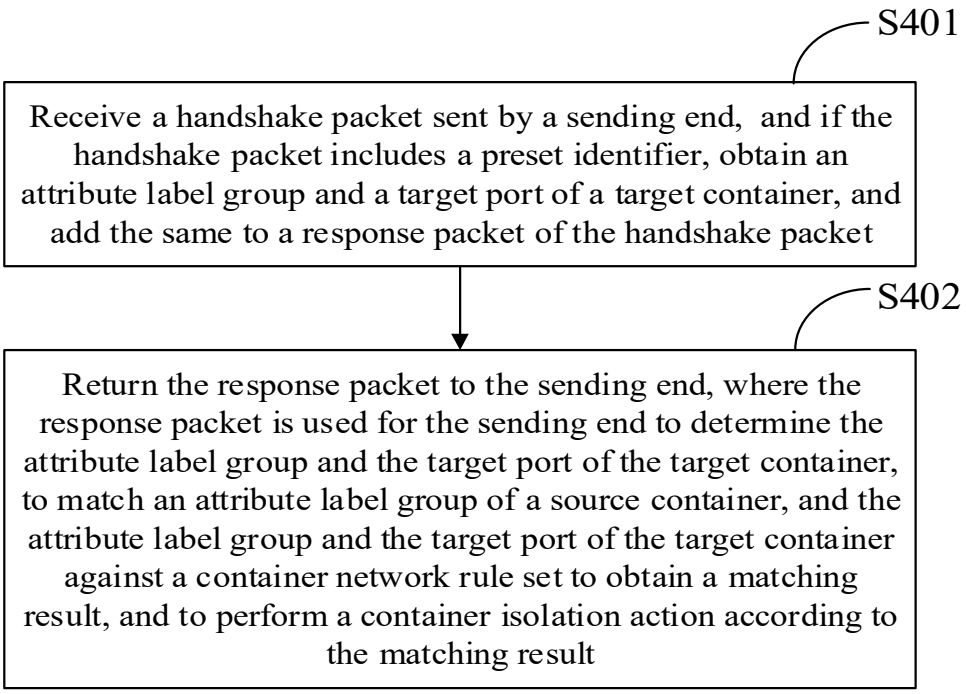

S401
Receive a handshake packet sent by a sending end, and if the handshake packet includes a preset identifier, obtain an attribute label group and a target port of a target container, and add the same to a response packet of the handshake packet
S402
Return the response packet to the sending end, where the response packet is used for the sending end to determine the attribute label group and the target port of the target container, to match an attribute label group of a source container, and the attribute label group and the target port of the target container against a container network rule set to obtain a matching result, and to perform a container isolation action according to the matching result

FIG. 4

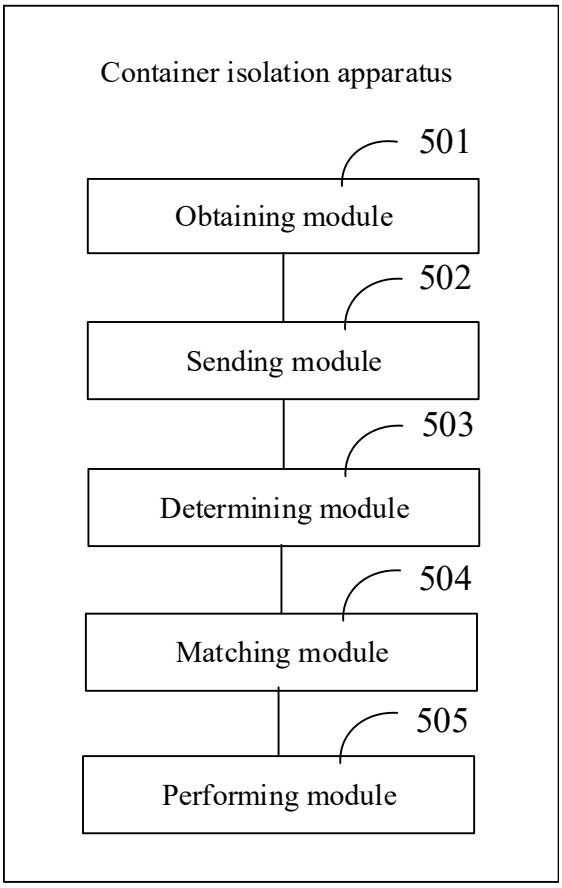

Container isolation apparatus
501
Obtaining module
502
Sending module
503
Determining module
504
Matching module
505
Performing module

FIG. 5

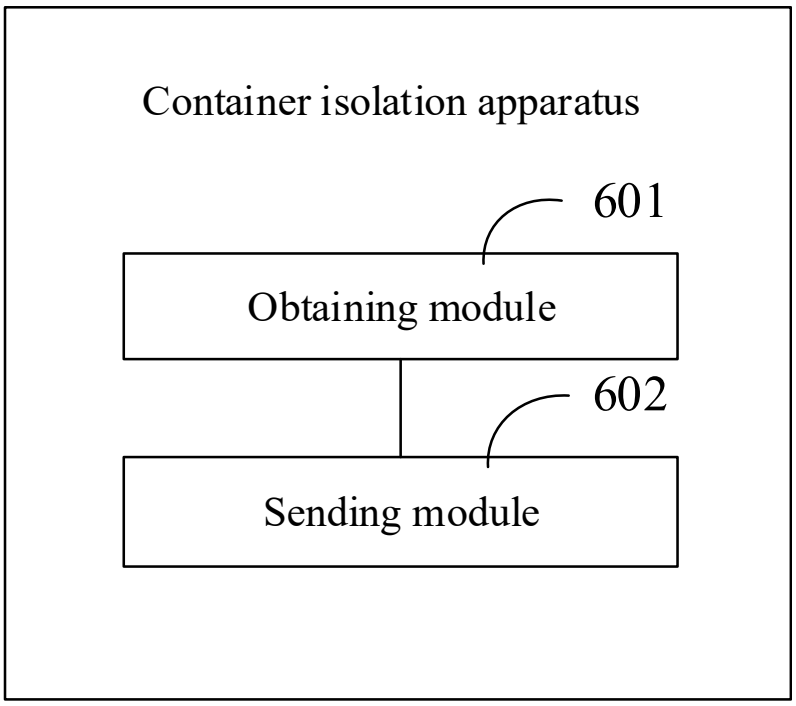

Container isolation apparatus
601
Obtaining module
602
Sending module

FIG. 6

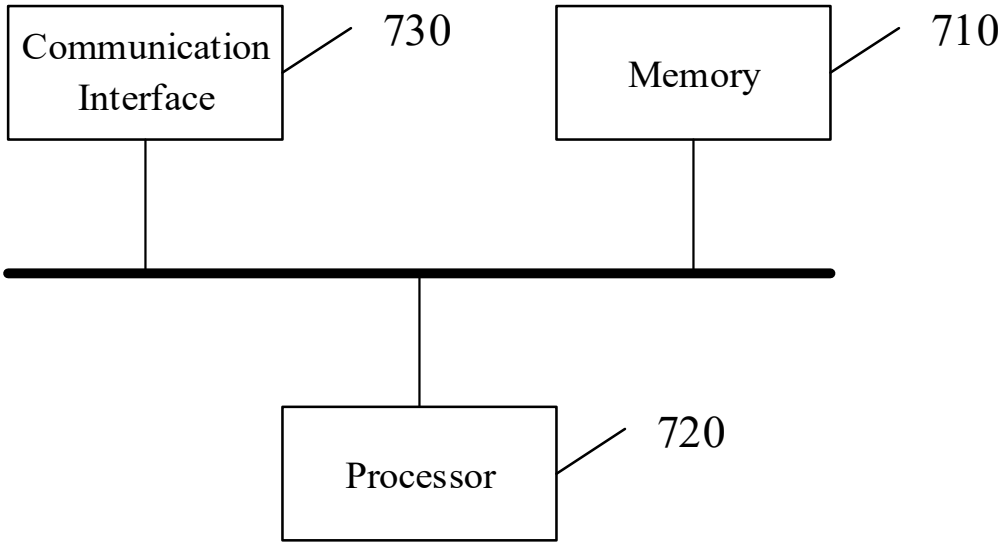

Communication Interface
730
Memory
710
Processor
720

FIG. 7