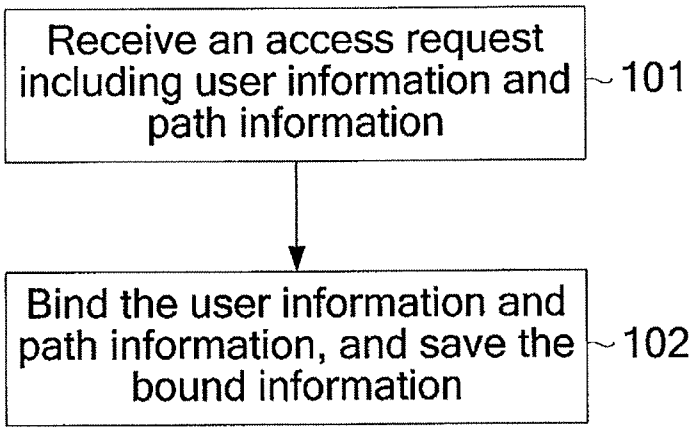

Receive an access request including user information and path information
101
Bind the user information and path information, and save the bound information
102

FIG. 1

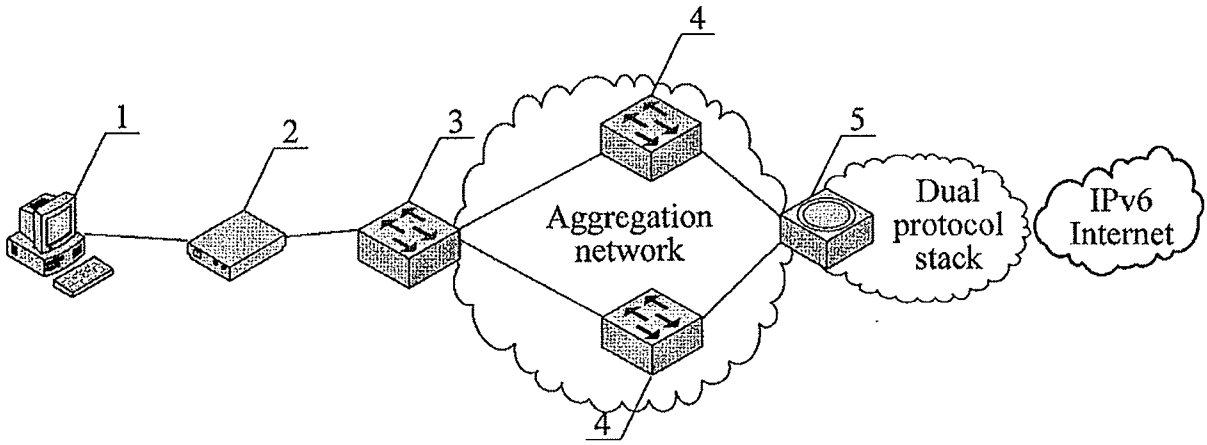

1
2
3
4
5
Aggregation network
Dual protocol stack
IPv6 Internet
4

FIG. 2

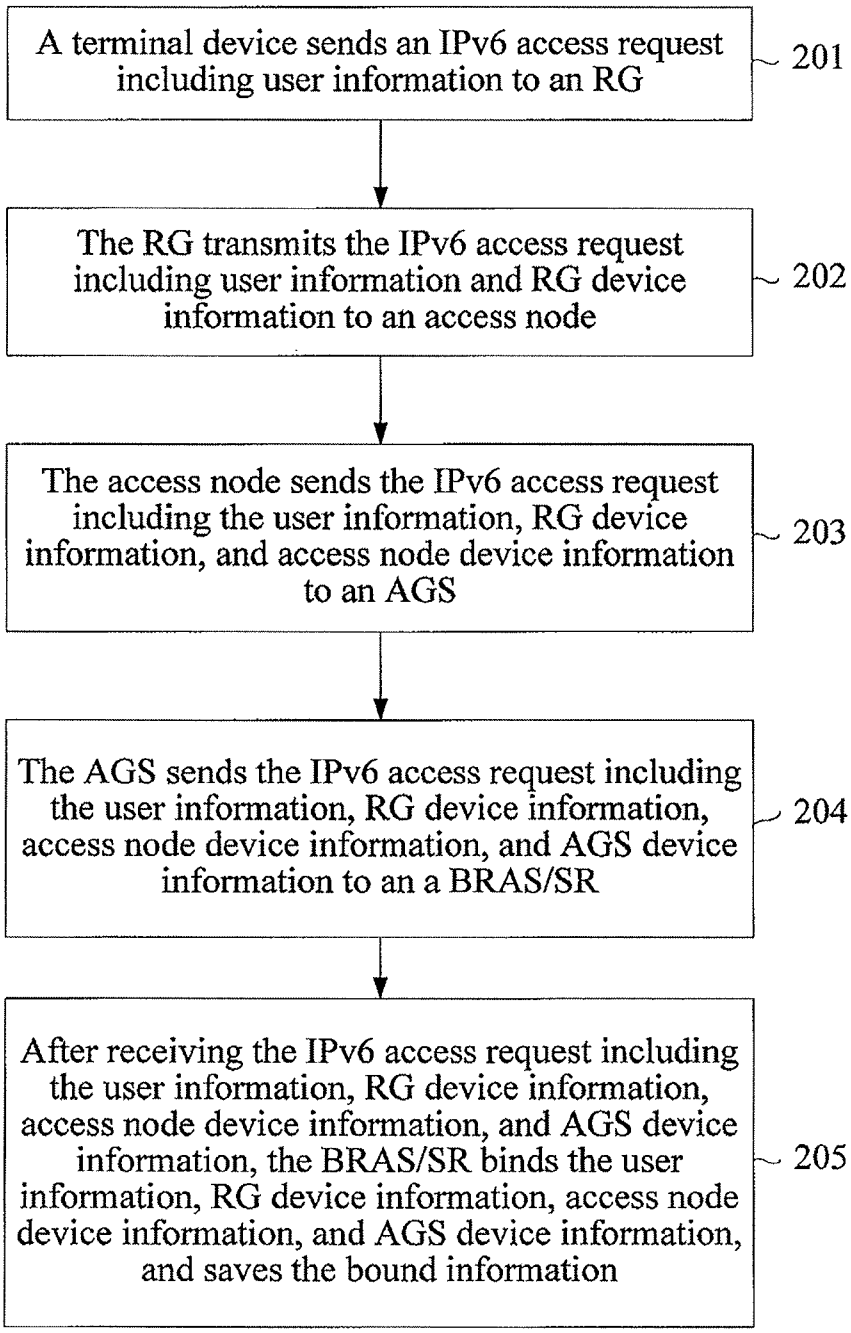

A terminal device sends an IPv6 access request including user information to an RG
201
The RG transmits the IPv6 access request including user information and RG device information to an access node
202
The access node sends the IPv6 access request including the user information, RG device information, and access node device information to an AGS
203
The AGS sends the IPv6 access request including the user information, RG device information, access node device information, and AGS device information to an a BRAS/SR
204
After receiving the IPv6 access request including the user information, RG device information, access node device information, and AGS device information, the BRAS/SR binds the user information, RG device information, access node device information, and AGS device information, and saves the bound information
205

FIG. 3

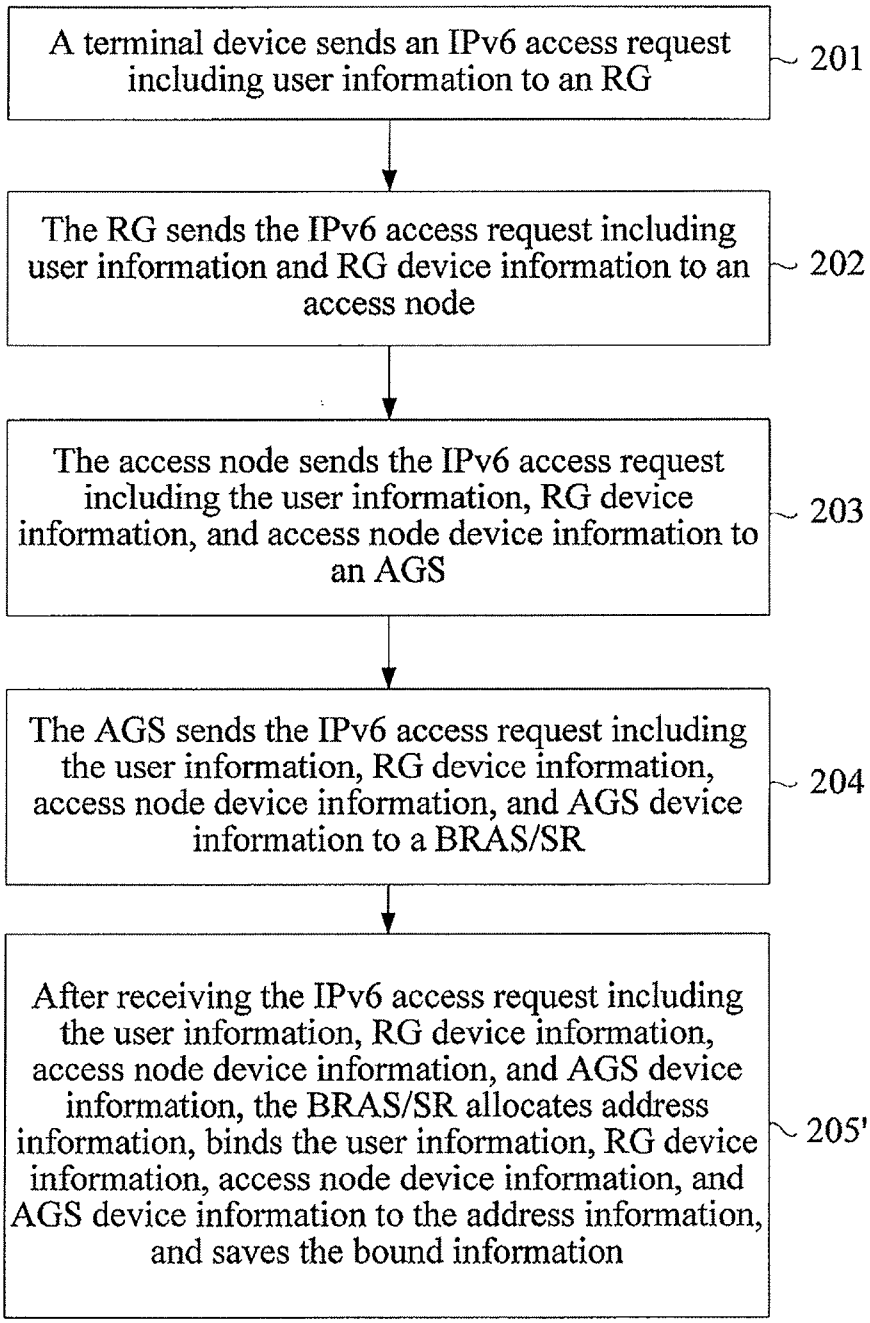

A terminal device sends an IPv6 access request including user information to an RG
201
The RG sends the IPv6 access request including user information and RG device information to an access node
202
The access node sends the IPv6 access request including the user information, RG device information, and access node device information to an AGS
203
The AGS sends the IPv6 access request including the user information, RG device information, access node device information, and AGS device information to a BRAS/SR
204
After receiving the IPv6 access request including the user information, RG device information, access node device information, and AGS device information, the BRAS/SR allocates address information, binds the user information, RG device information, access node device information, and AGS device information to the address information, and saves the bound information
205'

FIG. 4

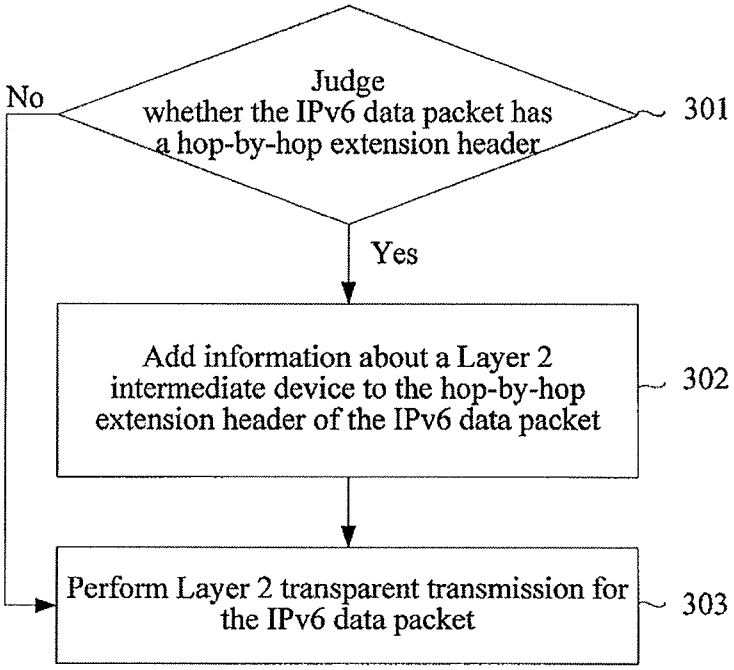

Judge
whether the IPv6 data packet has
a hop-by-hop extension header
301
No
Yes
Add information about a Layer 2
intermediate device to the hop-by-hop
extension header of the IPv6 data packet
302
Perform Layer 2 transparent transmission for
the IPv6 data packet
303

FIG. 5

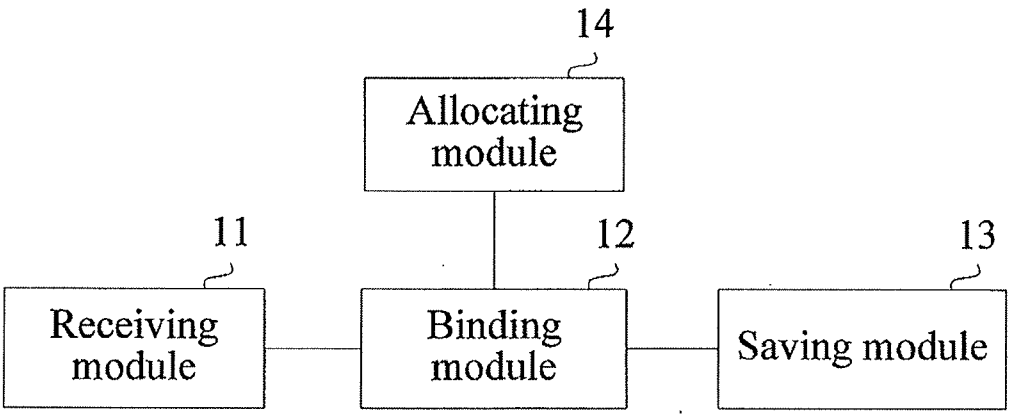

14
Allocating
module
11
12
13
Receiving
module
Binding
module
Saving module

FIG. 6

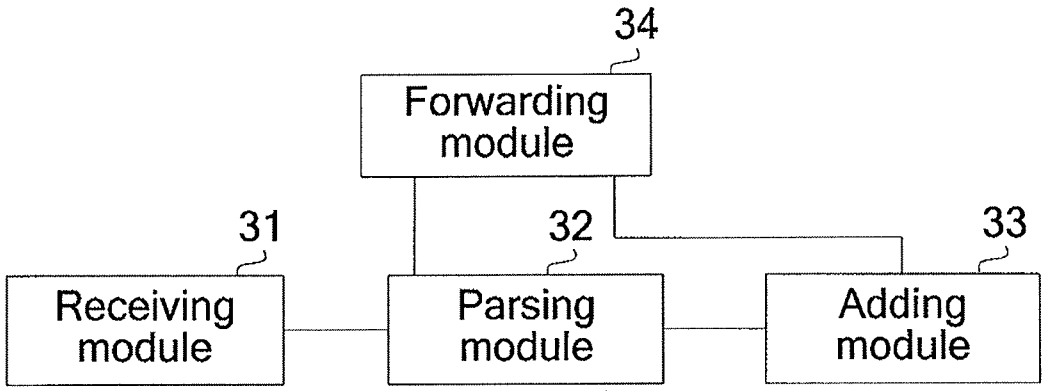

34
Forwarding module
31
32
33
Receiving module
Parsing module
Adding module

FIG. 7

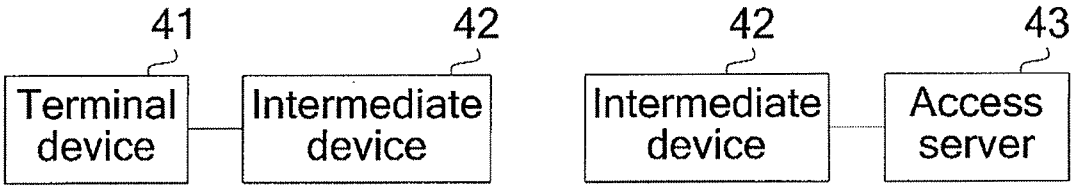

41
42
42
43
Terminal device
Intermediate device
Intermediate device
Access server

FIG. 8