FIGURE 1

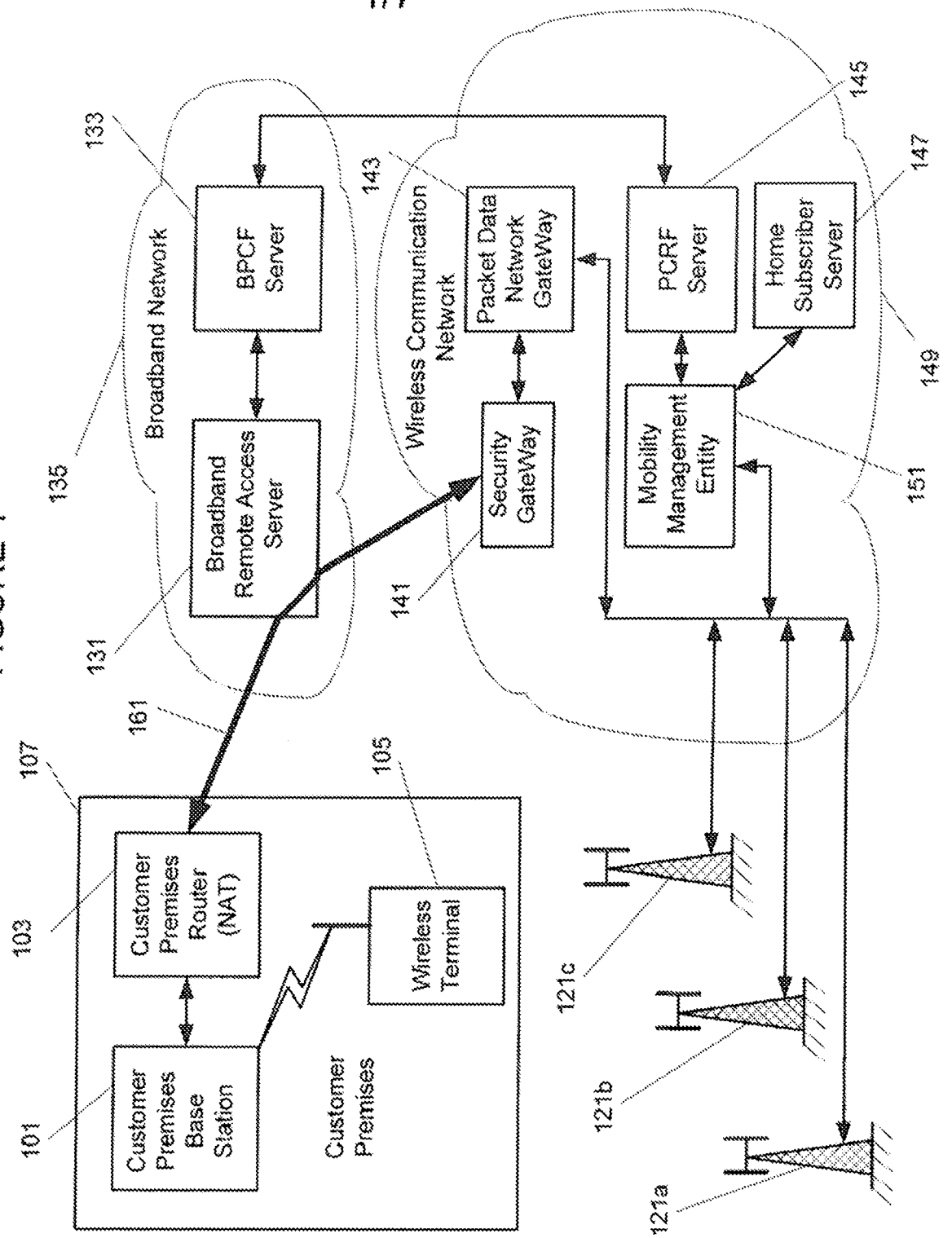

Broadband Network
Wireless Communication Network
BPCF Server
Broadband Remote Access Server
Packet Data Network GateWay
Security GateWay
PCRF Server
Home Subscriber Server
Mobility Management Entity
Customer Premises Router (NAT)
Customer Premises Base Station
Wireless Terminal
Customer Premises
101
103
105
107
121a
121b
121c
131
133
135
141
143
145
147
149
151
161

FIGURE 2

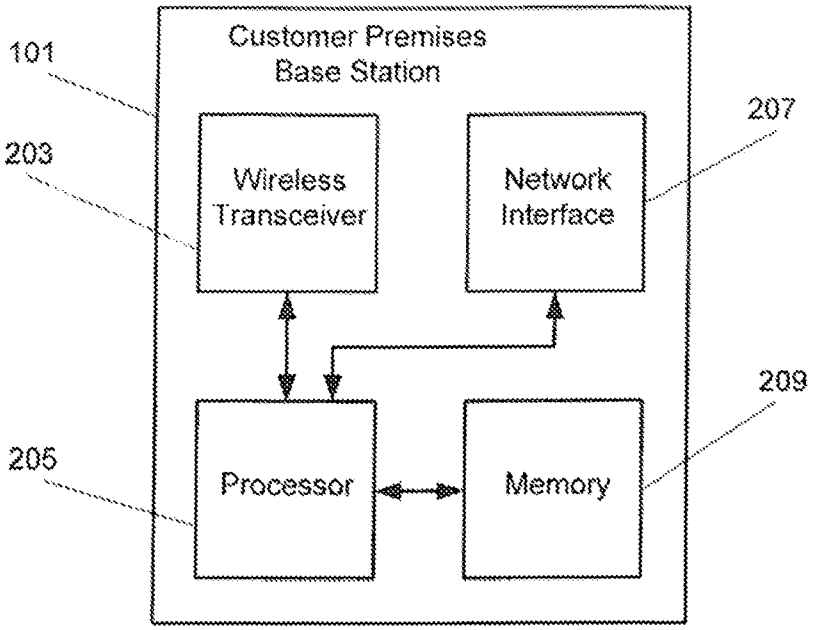


FIGURE 3

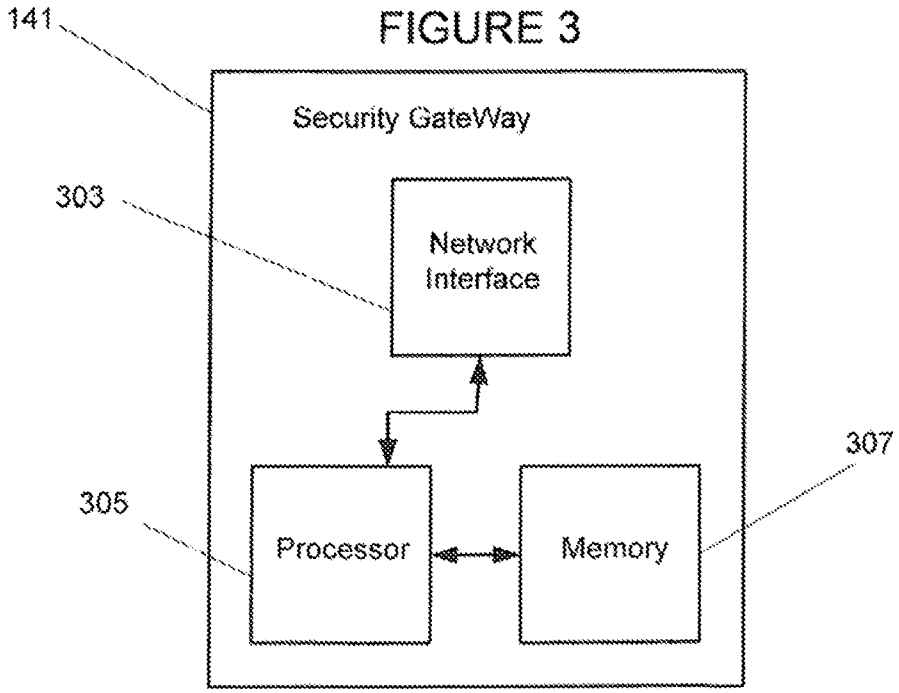


FIGURE 4A

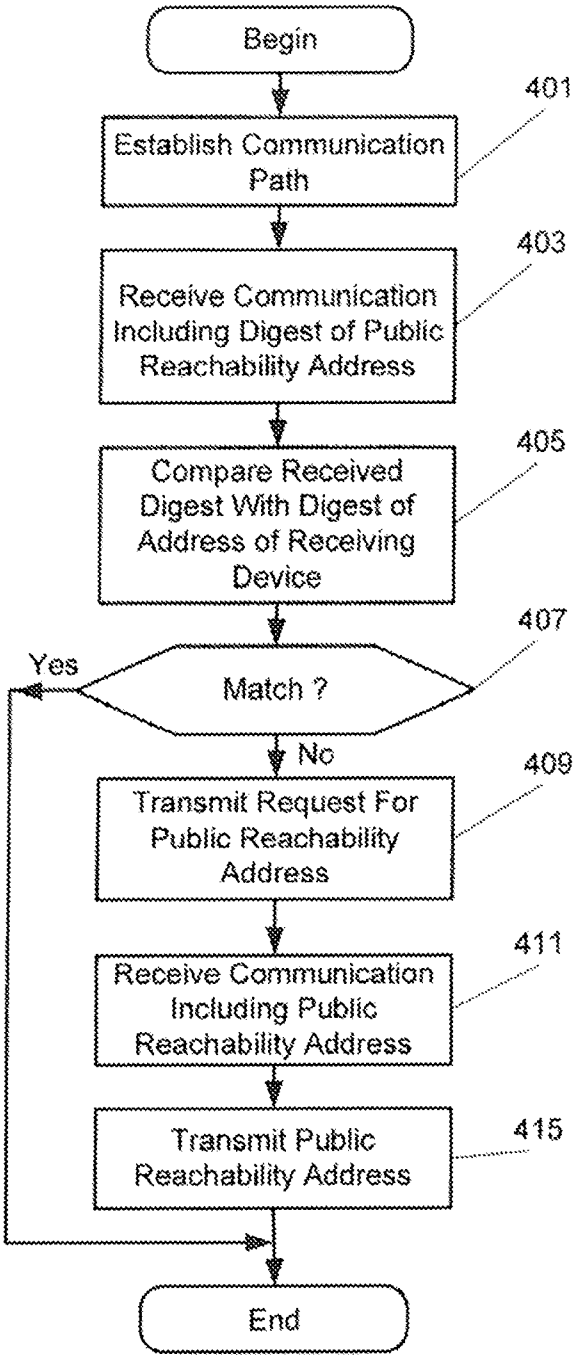

Begin
401
Establish Communication Path
403
Receive Communication Including Digest of Public Reachability Address
405
Compare Received Digest With Digest of Address of Receiving Device
407
Match ?
Yes
No
409
Transmit Request For Public Reachability Address
411
Receive Communication Including Public Reachability Address
415
Transmit Public Reachability Address
End

FIGURE 4B

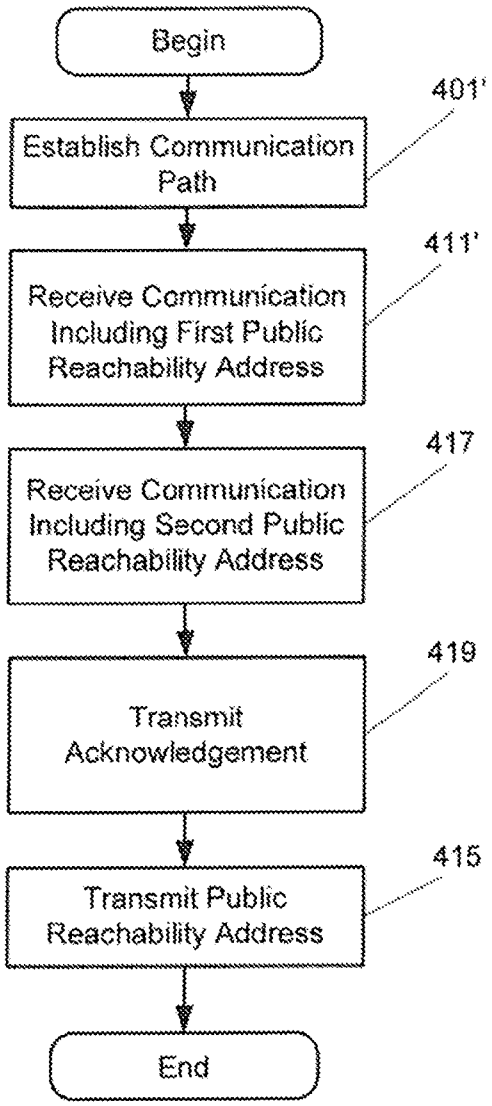

Begin
401'
Establish Communication Path
411'
Receive Communication Including First Public Reachability Address
417
Receive Communication Including Second Public Reachability Address
419
Transmit Acknowledgement
415
Transmit Public Reachability Address
End

FIGURE 5A

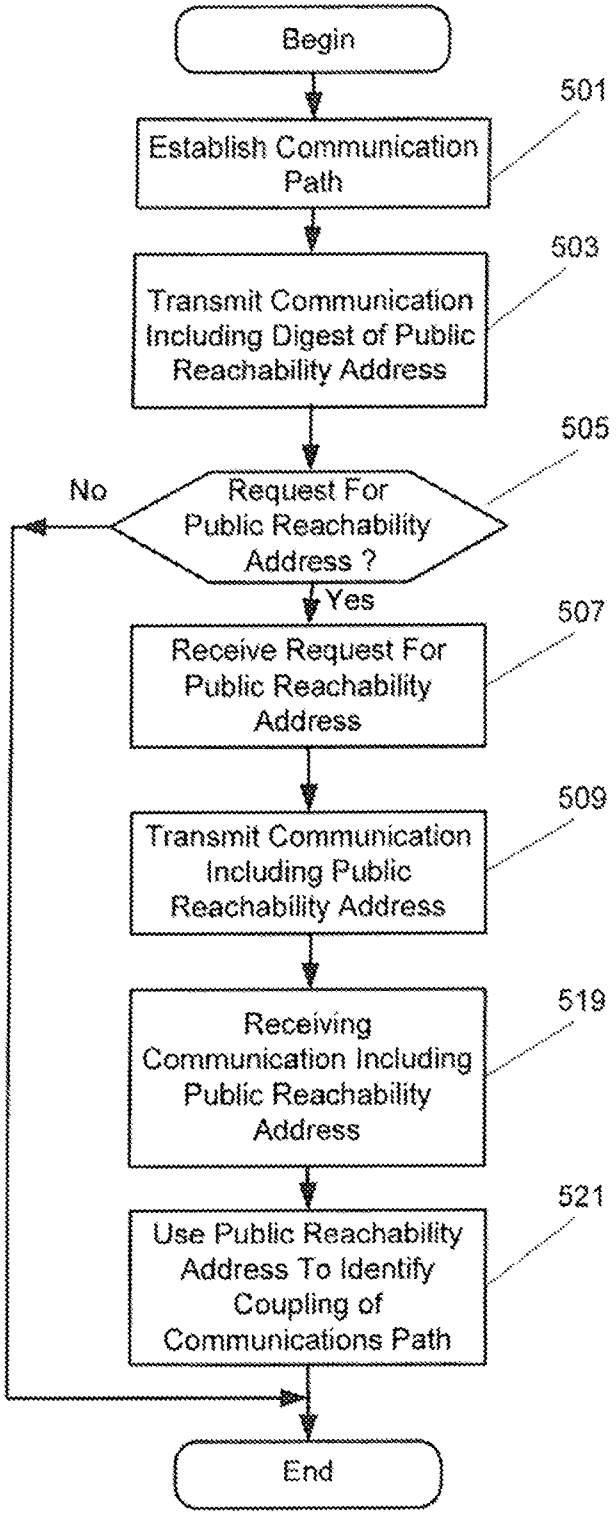

Begin
501
Establish Communication Path
503
Transmit Communication Including Digest of Public Reachability Address
505
No
Request For Public Reachability Address ?
Yes
507
Receive Request For Public Reachability Address
509
Transmit Communication Including Public Reachability Address
519
Receiving Communication Including Public Reachability Address
521
Use Public Reachability Address To Identify Coupling of Communications Path
End

FIGURE 5B

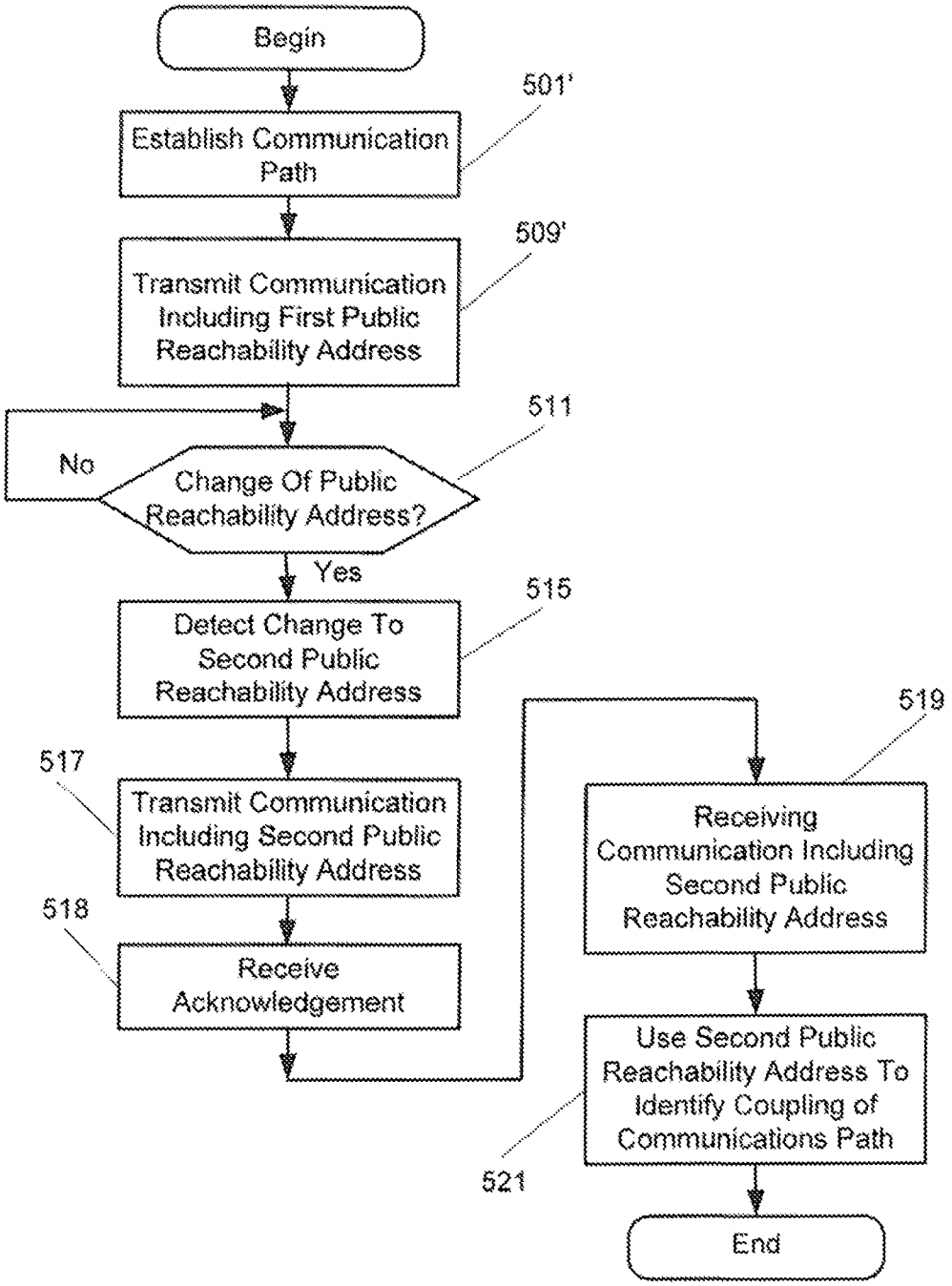
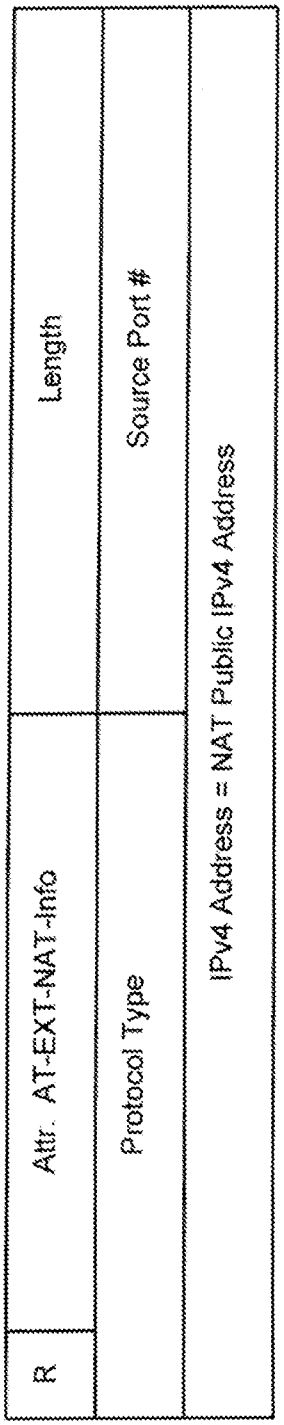

Begin
501'
Establish Communication Path
509'
Transmit Communication Including First Public Reachability Address
511
No
Change Of Public Reachability Address?
Yes
515
Detect Change To Second Public Reachability Address
517
Transmit Communication Including Second Public Reachability Address
518
Receive Acknowledgement
519
Receiving Communication Including Second Public Reachability Address
Use Second Public Reachability Address To Identify Coupling of Communications Path
521
End

FIGURE 6



AT-External-NAT-Info Configuration Protocol (CP) Format