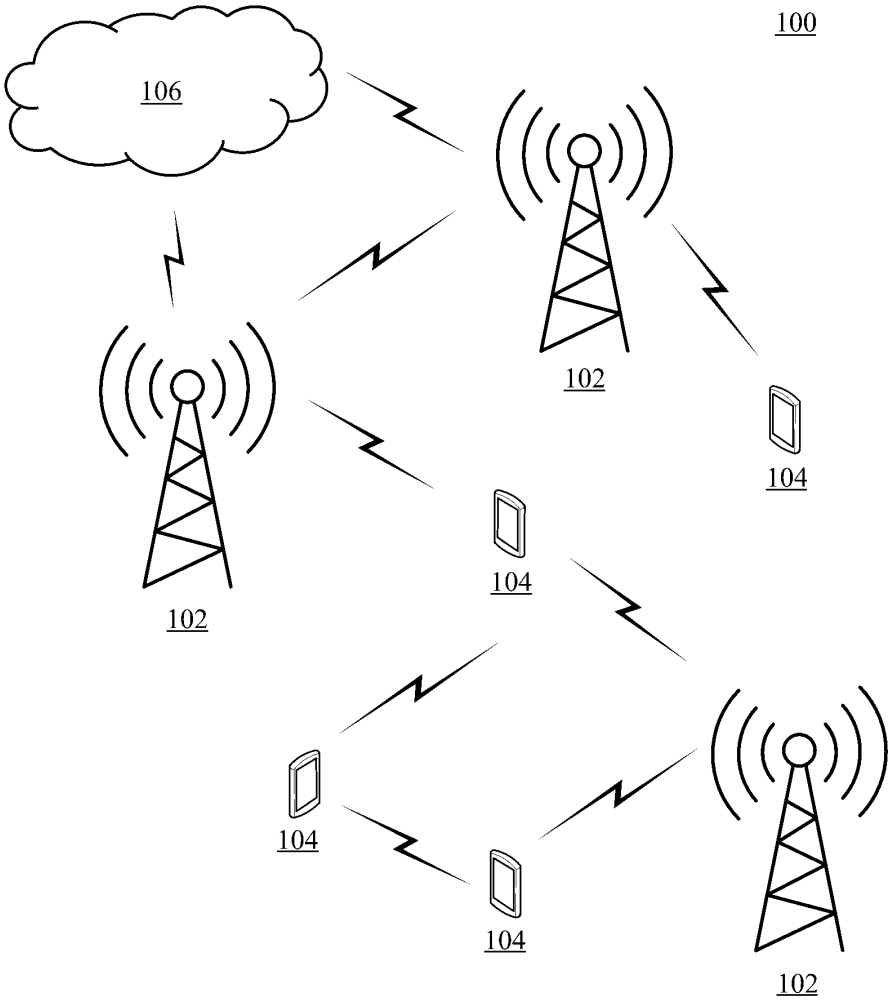


Figure 1

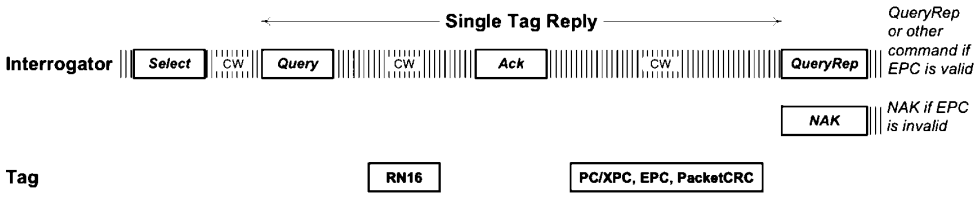


Figure 2

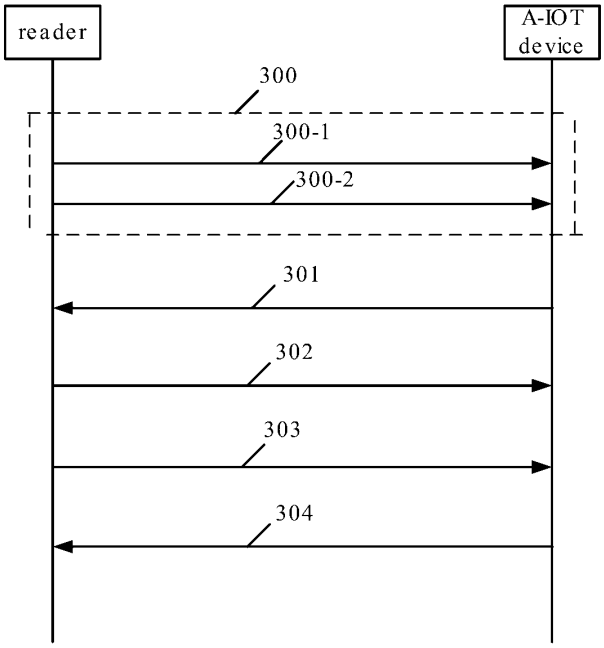


Figure 3

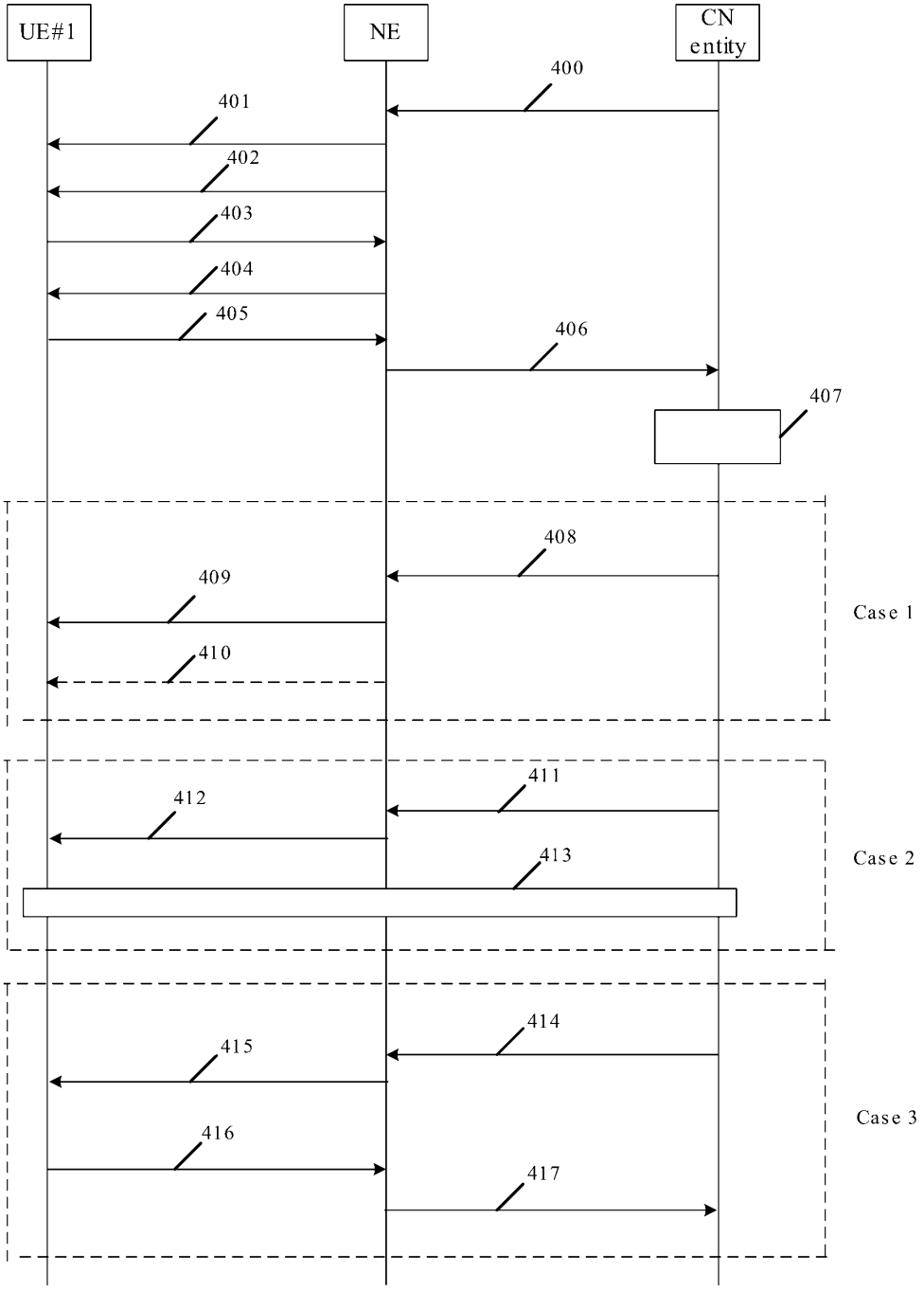

UE#1
NE
CN entity
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
Case 1
Case 2
Case 3

Figure 4

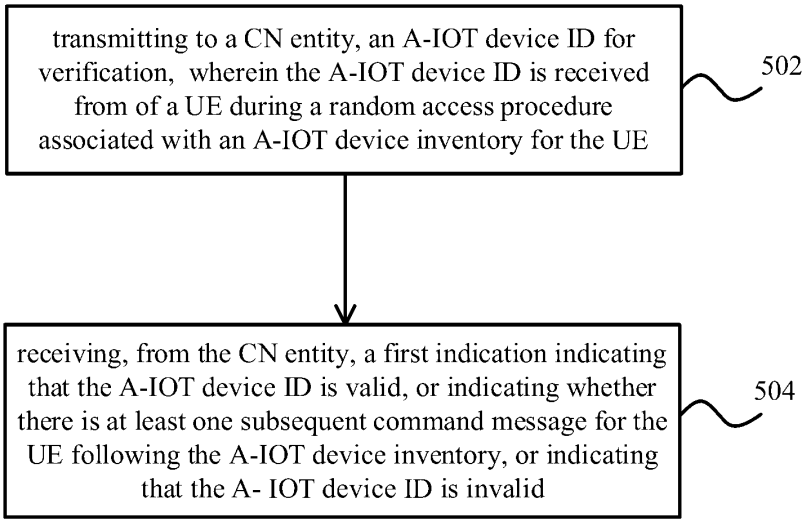


Figure 5

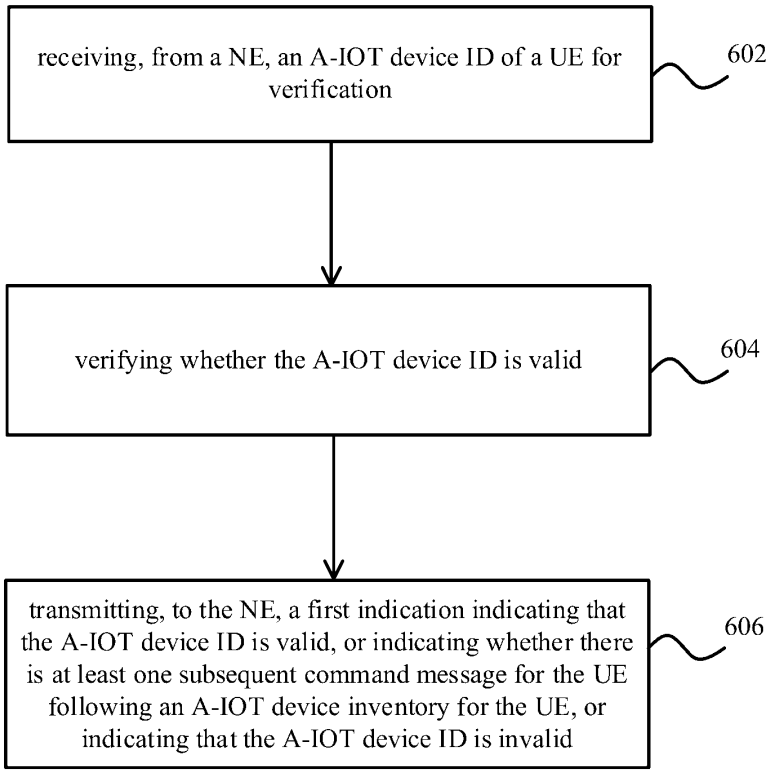


Figure 6

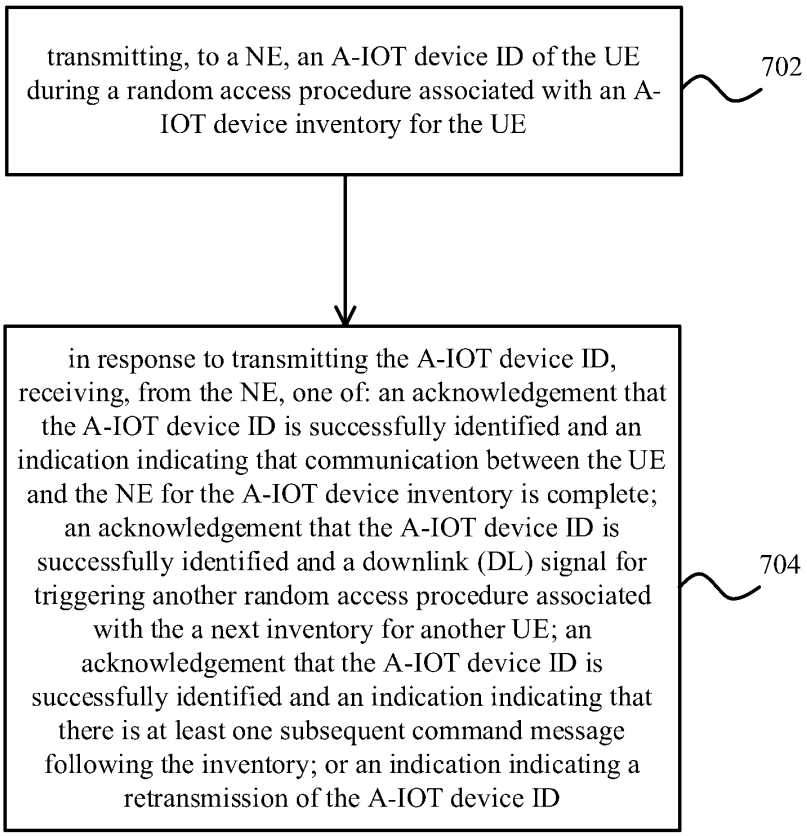

transmitting, to a NE, an A-IOT device ID of the UE during a random access procedure associated with an A-IOT device inventory for the UE
702
in response to transmitting the A-IOT device ID, receiving, from the NE, one of: an acknowledgement that the A-IOT device ID is successfully identified and an indication indicating that communication between the UE and the NE for the A-IOT device inventory is complete; an acknowledgement that the A-IOT device ID is successfully identified and a downlink (DL) signal for triggering another random access procedure associated with the a next inventory for another UE; an acknowledgement that the A-IOT device ID is successfully identified and an indication indicating that there is at least one subsequent command message following the inventory; or an indication indicating a retransmission of the A-IOT device ID
704

Figure 7

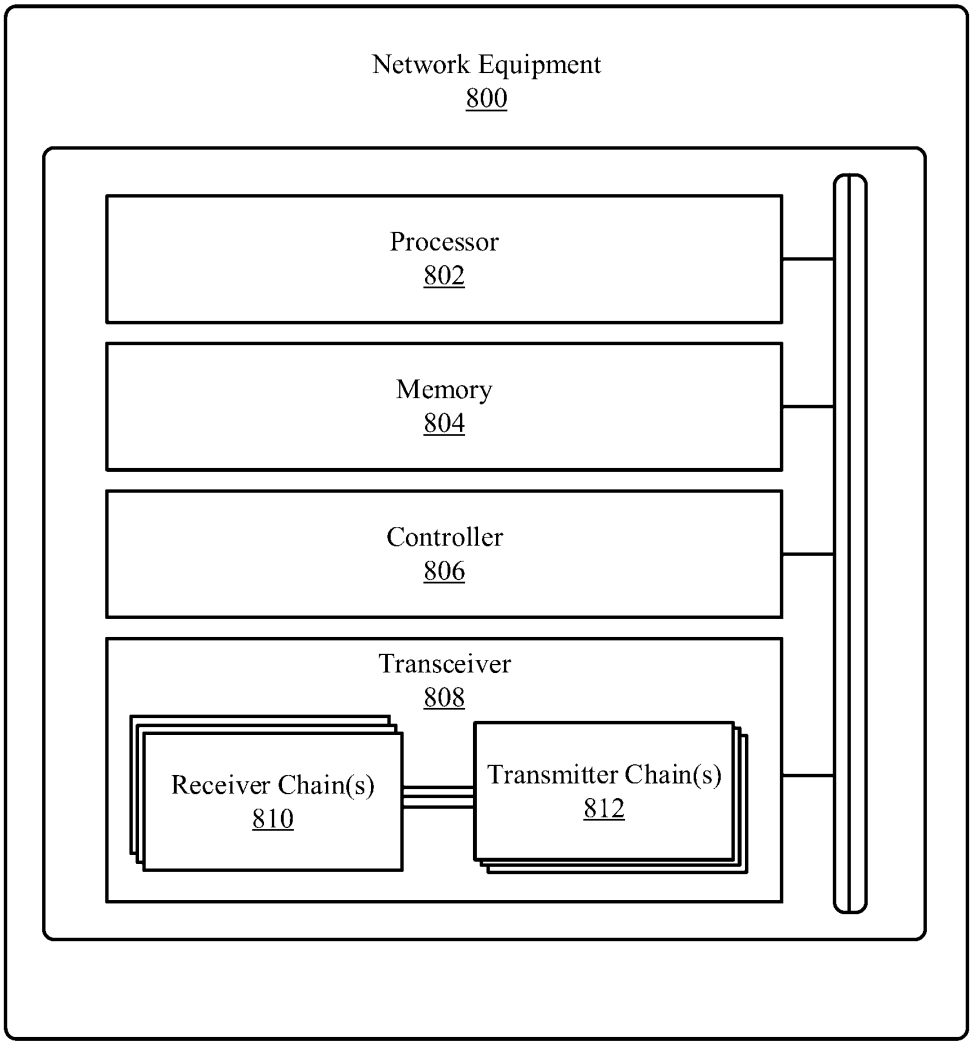

Network Equipment
800
Processor
802
Memory
804
Controller
806
Transceiver
808
Receiver Chain(s)
810
Transmitter Chain(s)
812

Figure 8

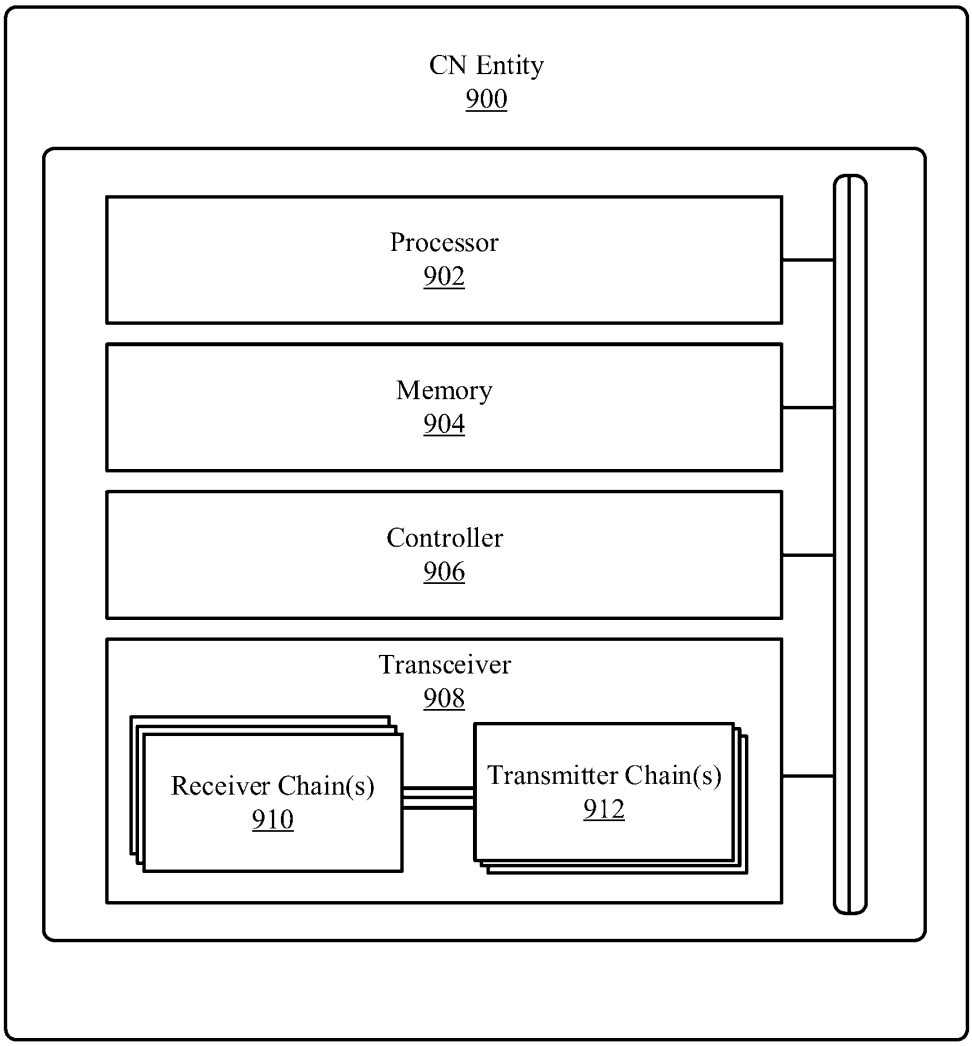

CN Entity
900
Processor
902
Memory
904
Controller
906
Transceiver
908
Receiver Chain(s)
910
Transmitter Chain(s)
912

Figure 9

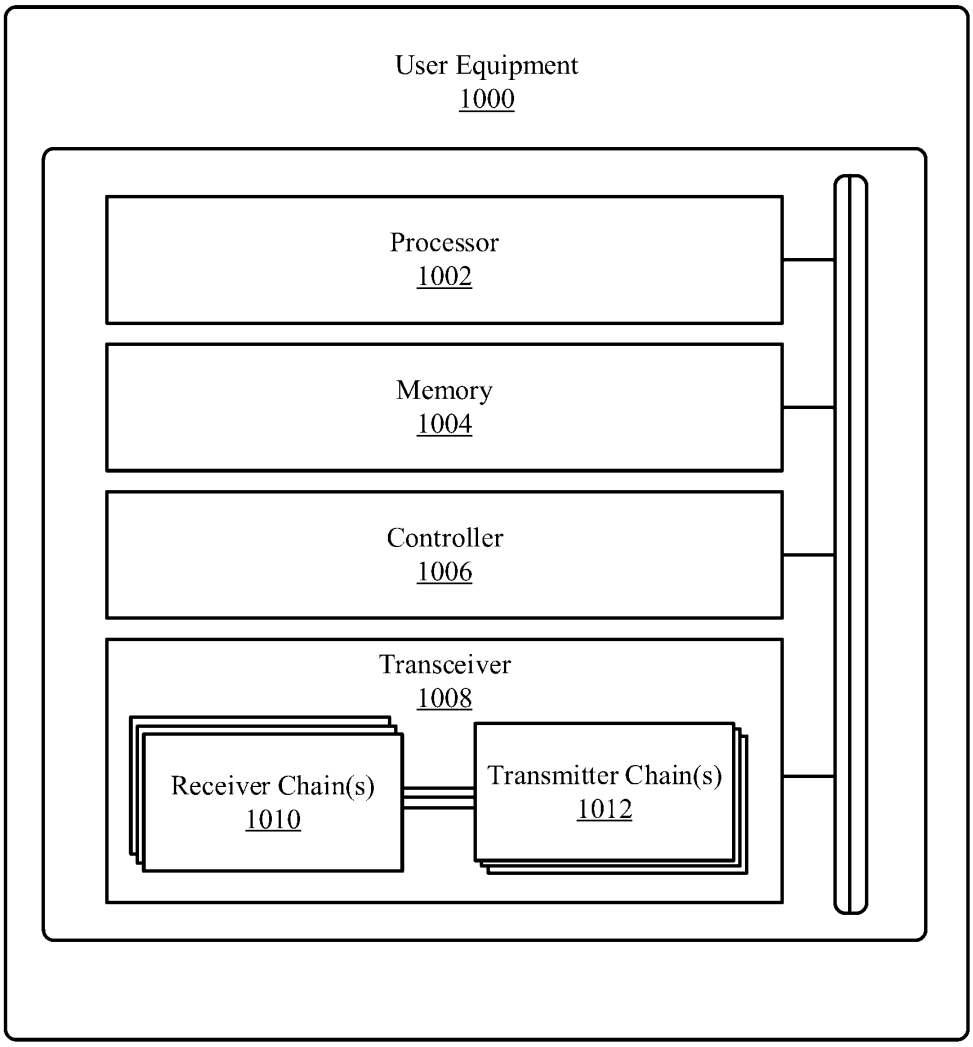

User Equipment
1000
Processor
1002
Memory
1004
Controller
1006
Transceiver
1008
Receiver Chain(s)
1010
Transmitter Chain(s)
1012

Figure 10

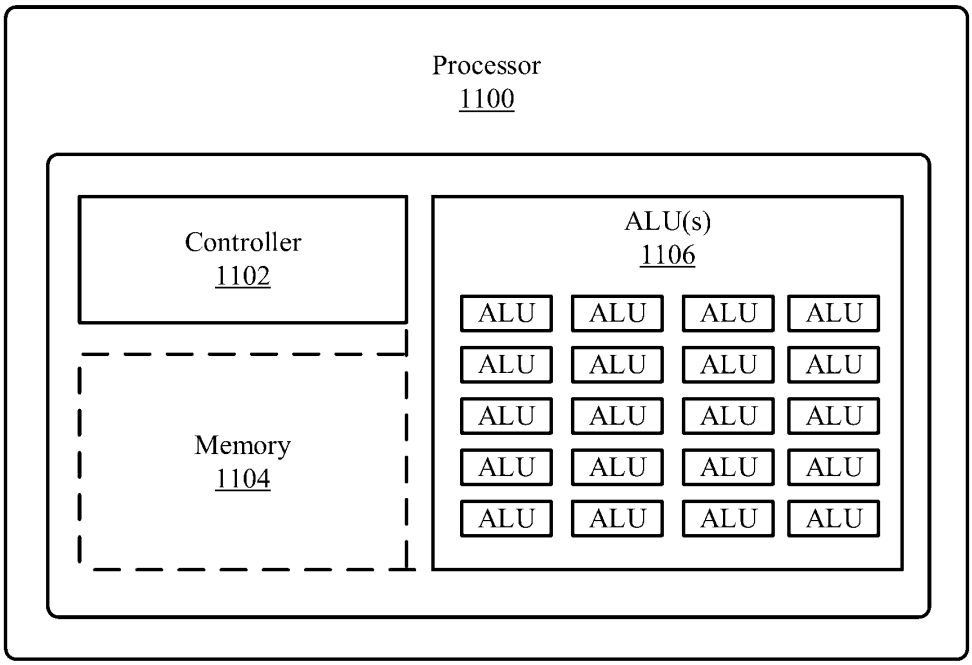

Processor
1100
Controller
1102
Memory
1104
ALU(s)
1106
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU

Figure 11