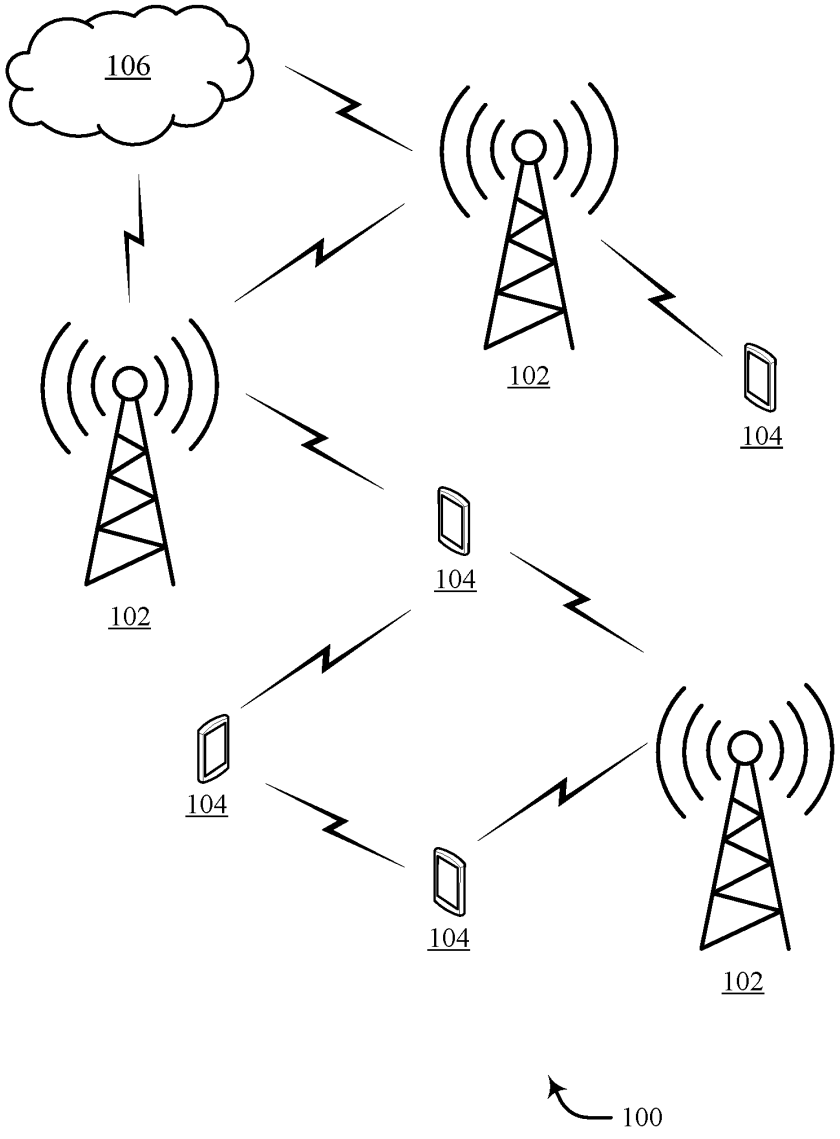


Figure 1

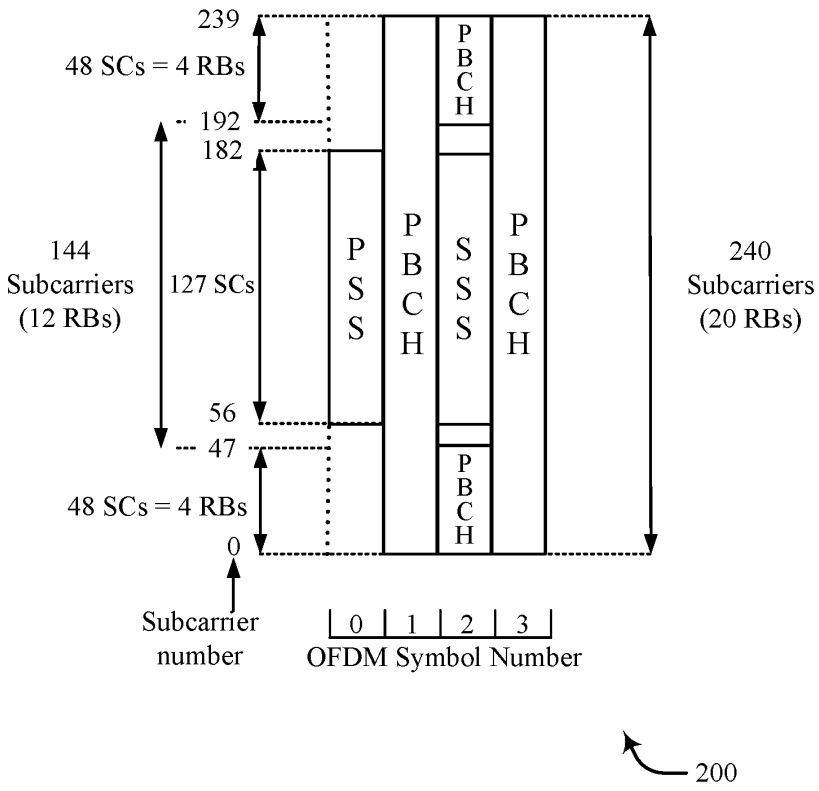

239
48 SCs = 4 RBs
192
182
144
Subcarriers
(12 RBs)
127 SCs
56
47
48 SCs = 4 RBs
0
PSS
PBCH
SSS
PBCH
PBCH
PBCH
240
Subcarriers
(20 RBs)
Subcarrier
number
0
1
2
3
OFDM Symbol Number
200

Figure 2

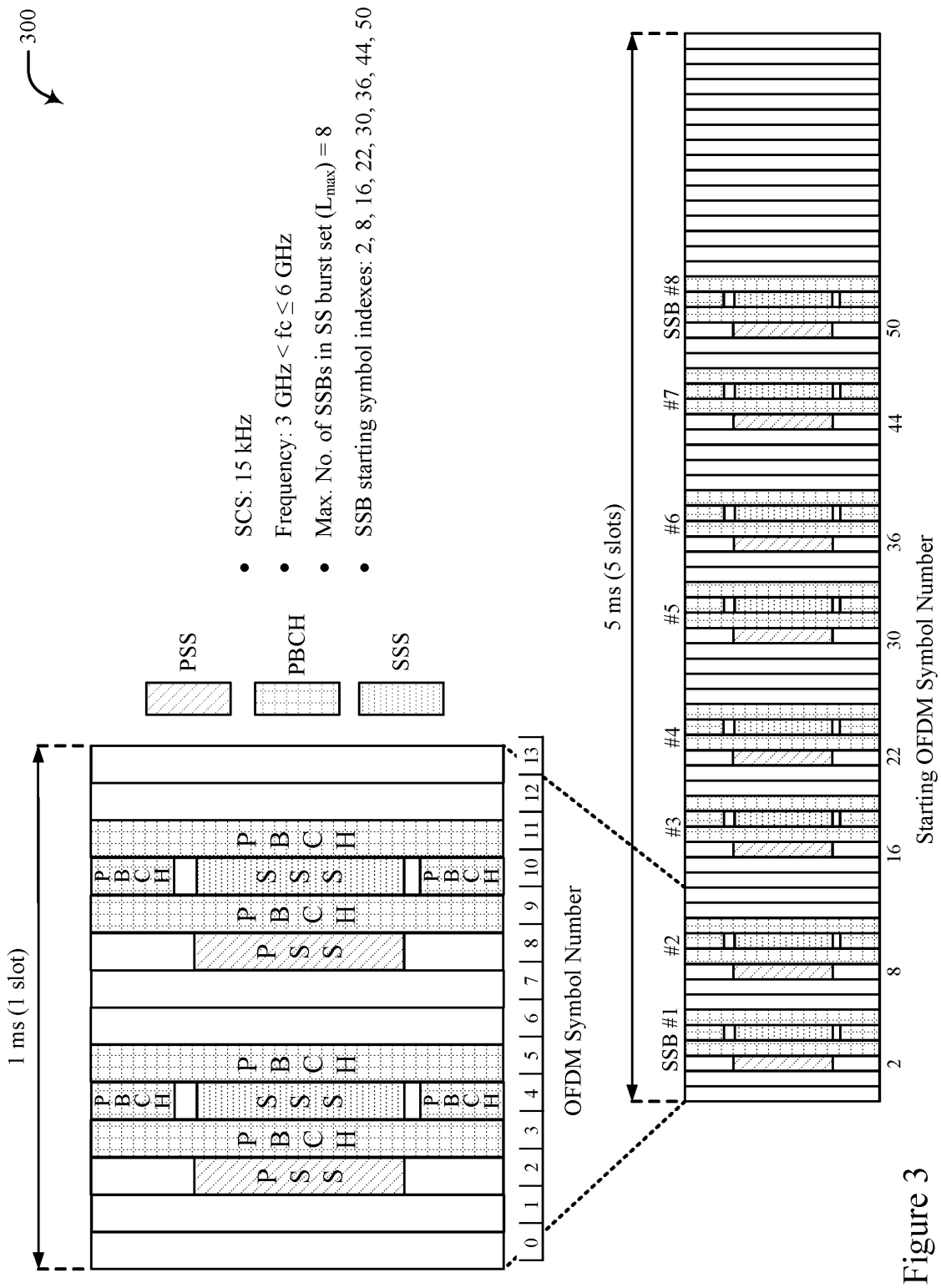

300
PSS
PBCH
SSS
SCS: 15 kHz
Frequency: 3 GHz < fc ≤ 6 GHz
Max. No. of SSBs in SS burst set (L_{max}) = 8
SSB starting symbol indexes: 2, 8, 16, 22, 30, 36, 44, 50
1 ms (1 slot)
0 1 2 3 4 5 6 7 8 9 10 11 12 13
OFDM Symbol Number
5 ms (5 slots)
SSB #1
SSB #2
SSB #3
SSB #4
SSB #5
SSB #6
SSB #7
SSB #8
2 8 16 22 30 36 44 50
Starting OFDM Symbol Number

Figure 3

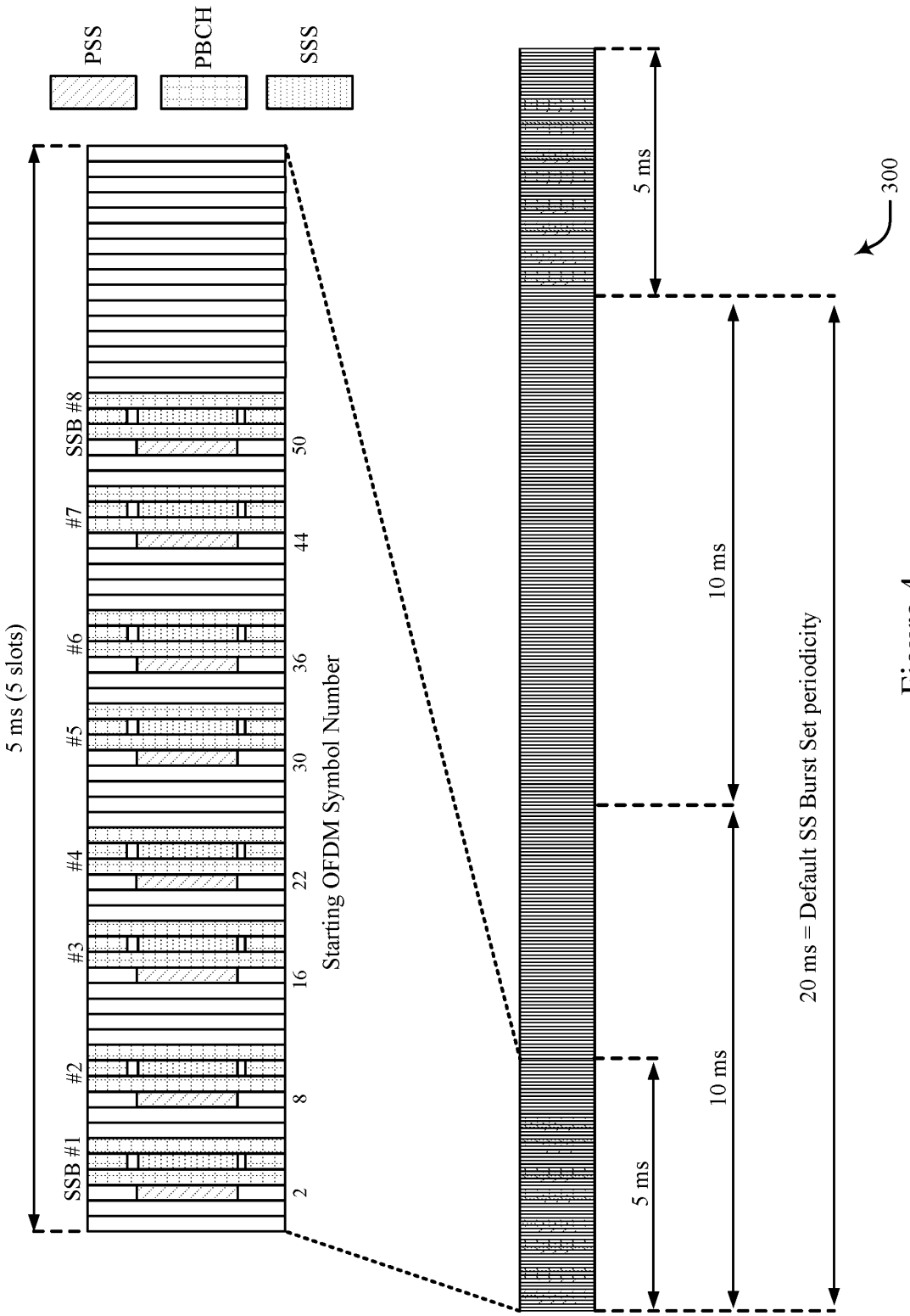

PSS
PBCH
SSS
5 ms (5 slots)
SSB #1
#2
#3
#4
#5
#6
#7
SSB #8
2
8
16
22
30
36
44
50
Starting OFDM Symbol Number
5 ms
10 ms
10 ms
5 ms
20 ms = Default SS Burst Set periodicity
300

Figure 4

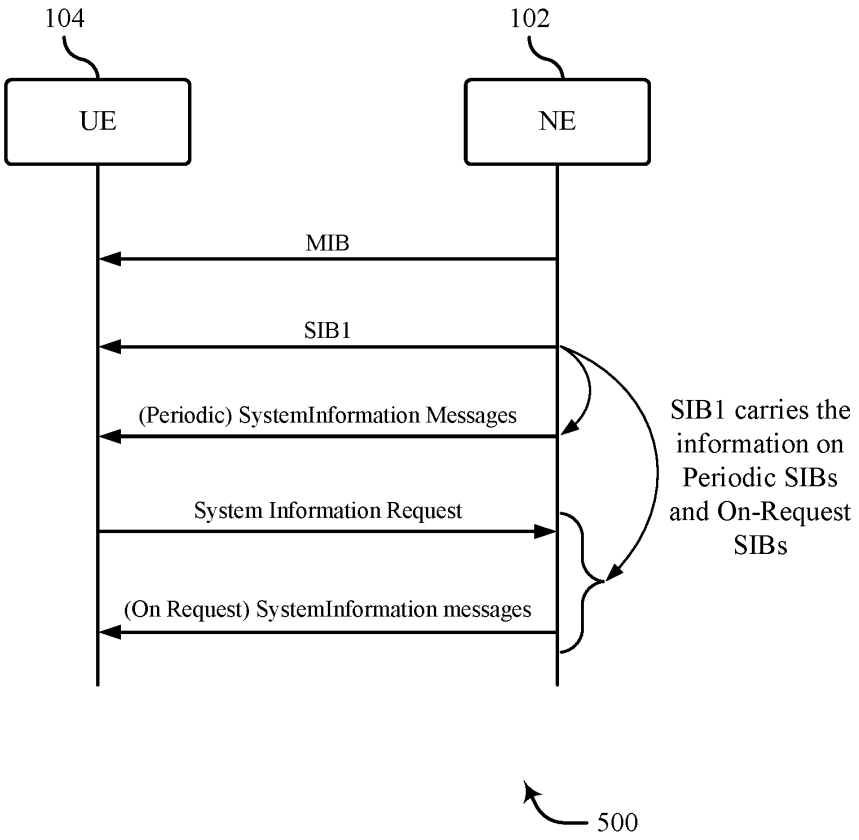

104
102
UE
NE
MIB
SIB1
(Periodic) SystemInformation Messages
System Information Request
(On Request) SystemInformation messages
SIB1 carries the information on Periodic SIBs and On-Request SIBs
500

Figure 5

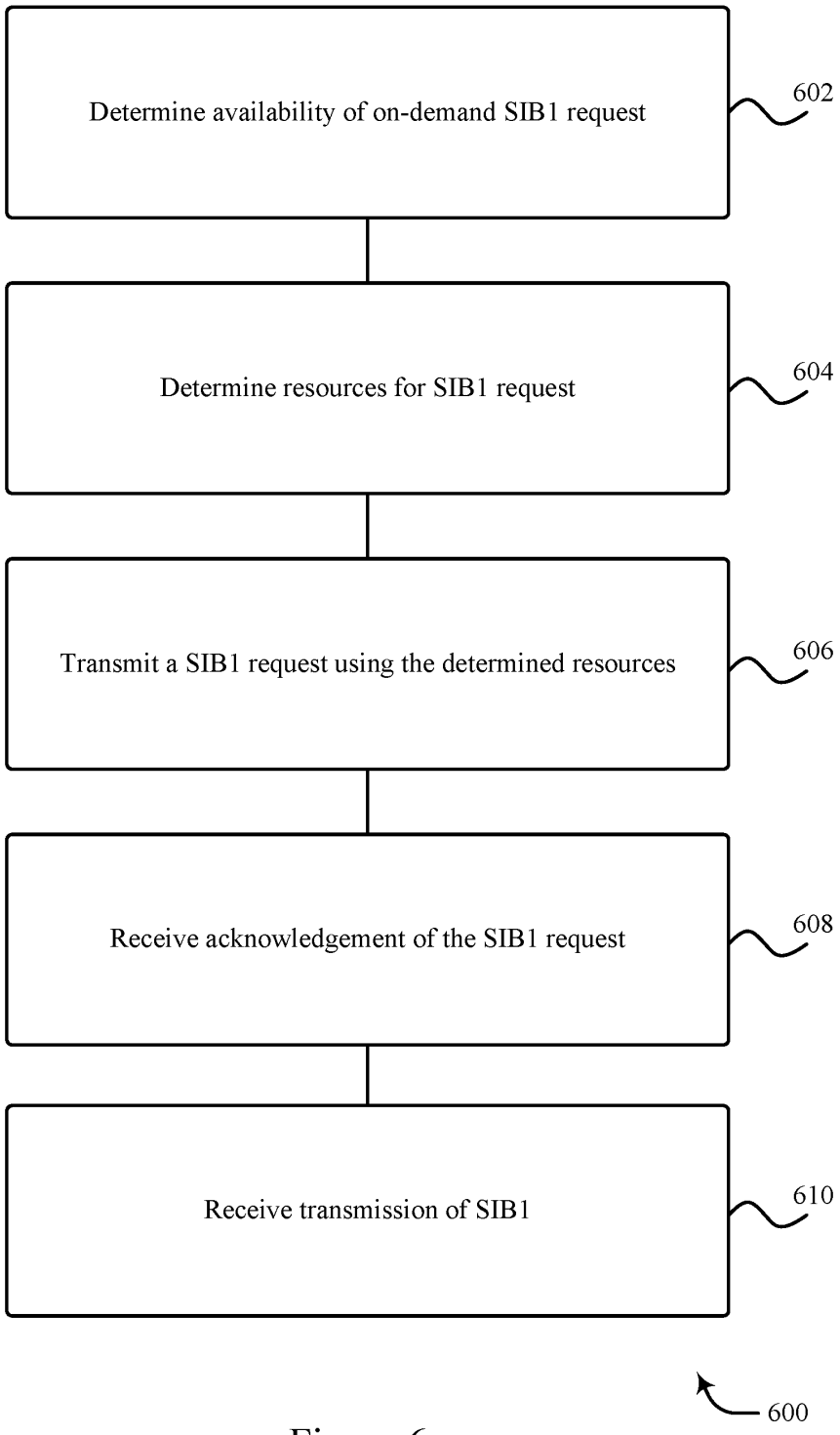

Determine availability of on-demand SIB1 request
602
Determine resources for SIB1 request
604
Transmit a SIB1 request using the determined resources
606
Receive acknowledgement of the SIB1 request
608
Receive transmission of SIB1
610
600

Figure 6

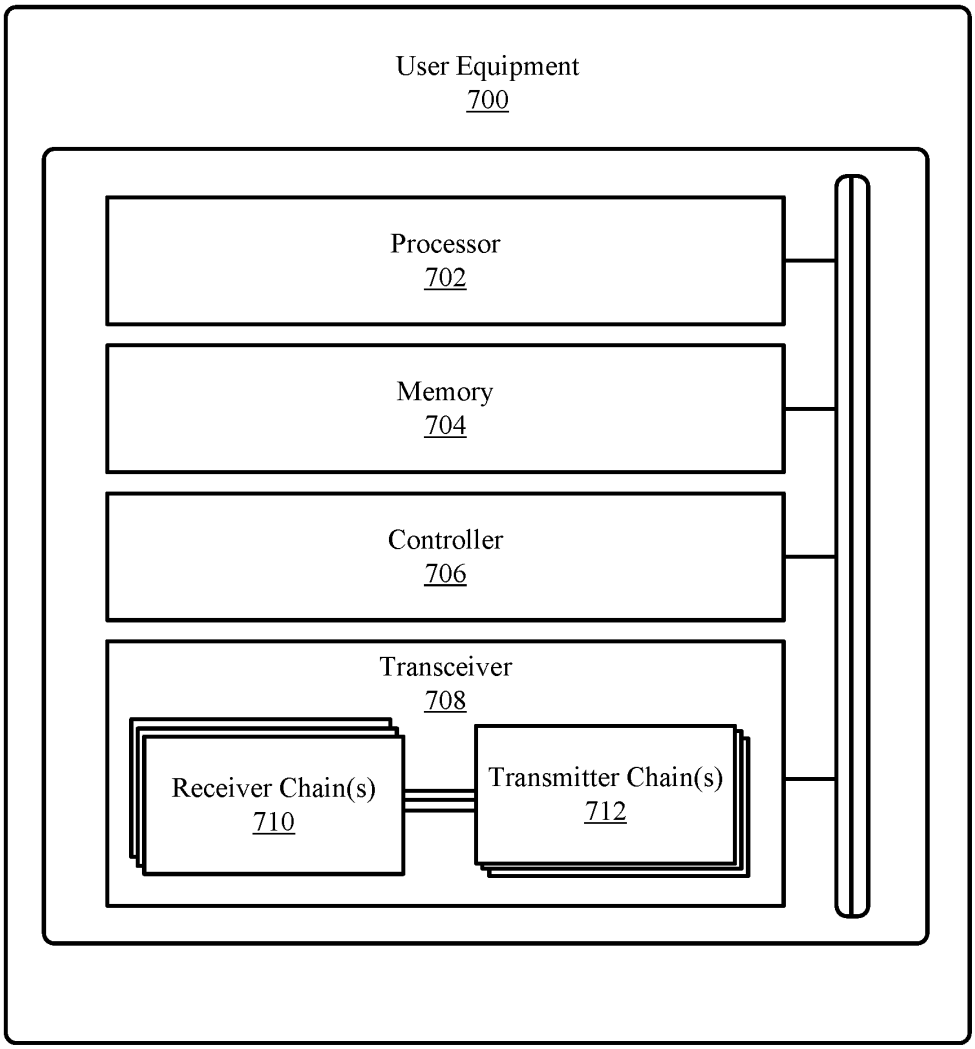

User Equipment
700
Processor
702
Memory
704
Controller
706
Transceiver
708
Receiver Chain(s)
710
Transmitter Chain(s)
712

Figure 7

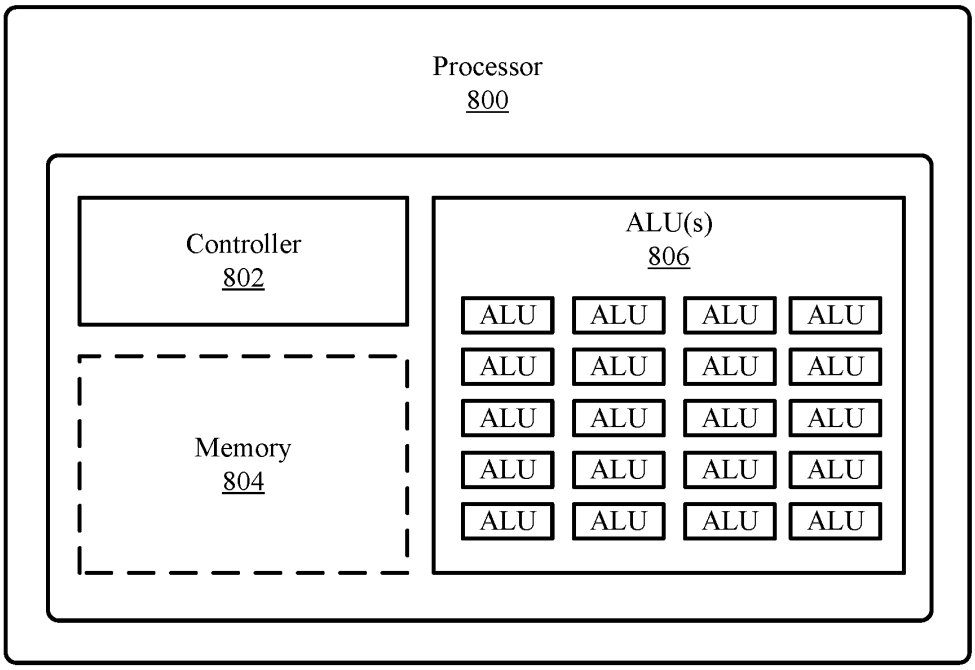

Processor
800
Controller
802
Memory
804
ALU(s)
806
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU
ALU

Figure 8

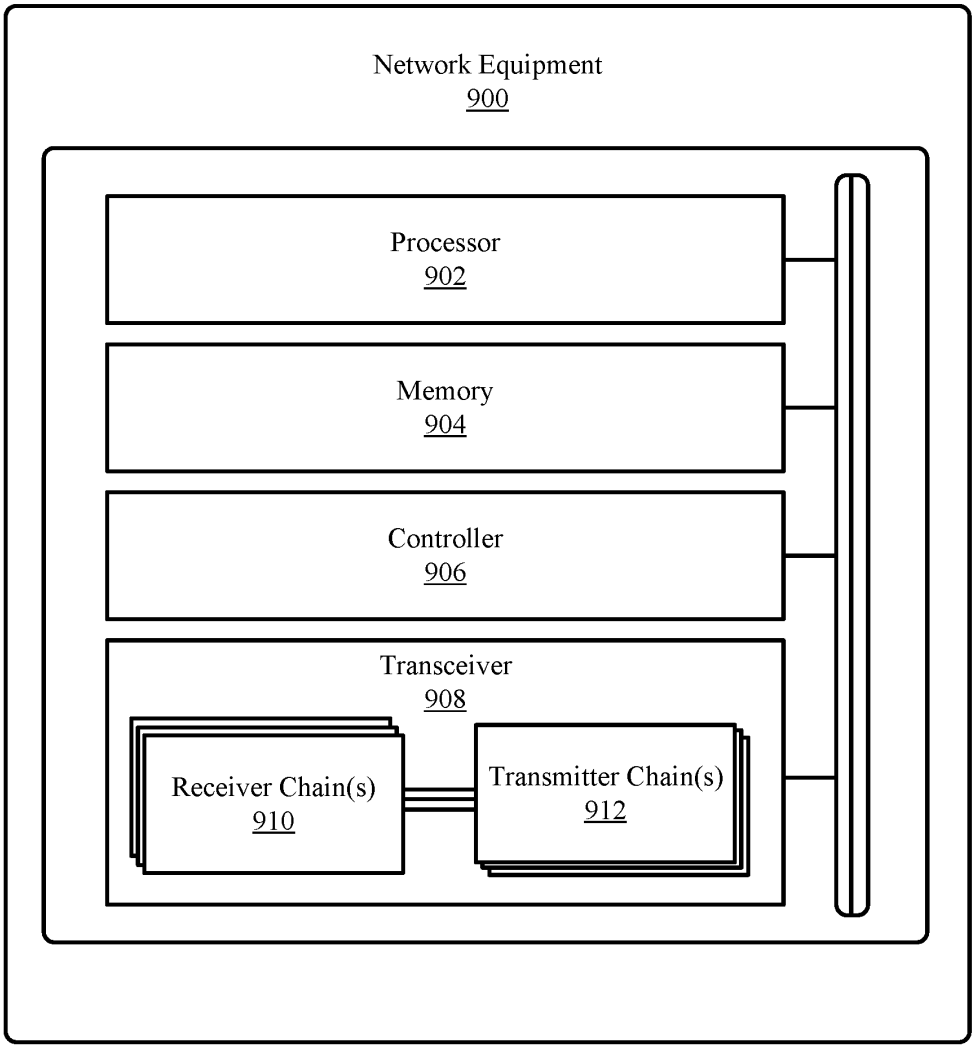

Network Equipment
900
Processor
902
Memory
904
Controller
906
Transceiver
908
Receiver Chain(s)
910
Transmitter Chain(s)
912

Figure 9

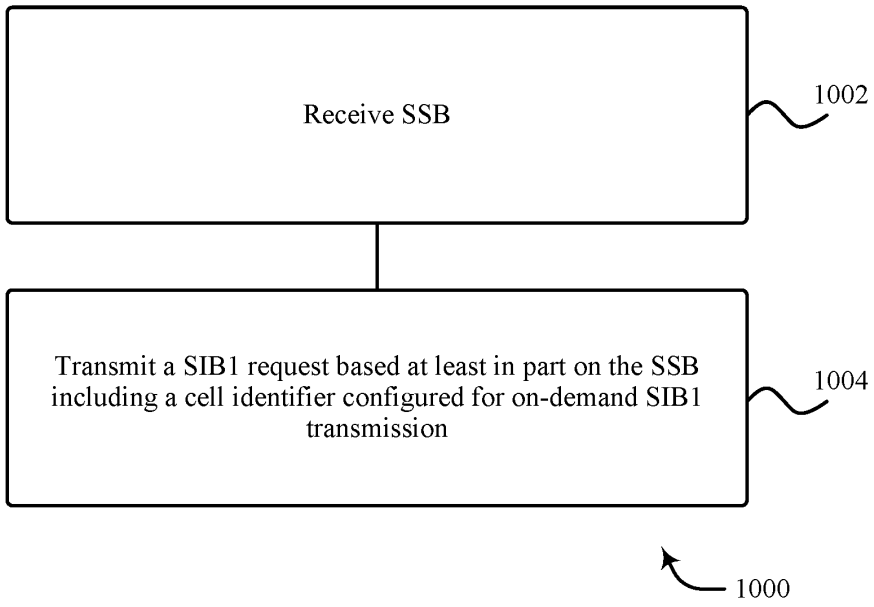


Figure 10

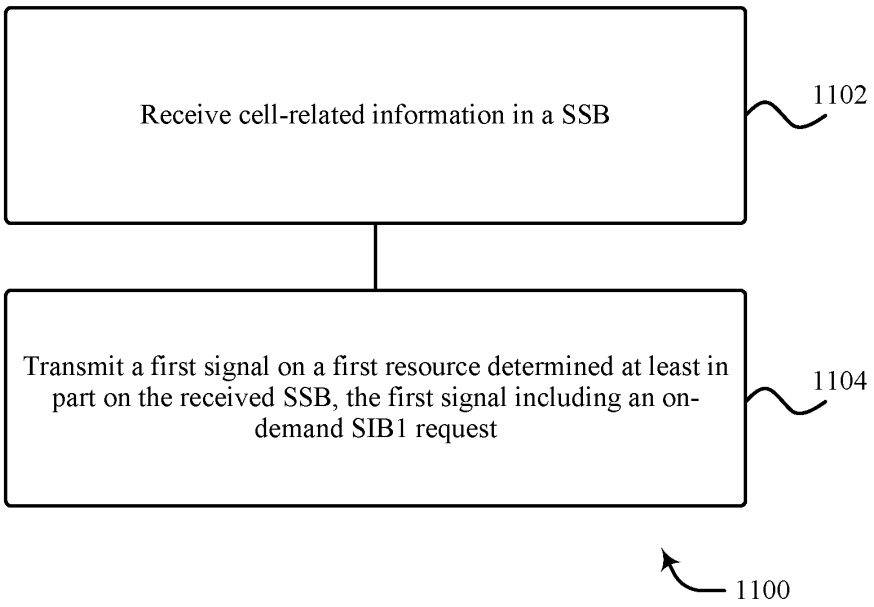


Figure 11

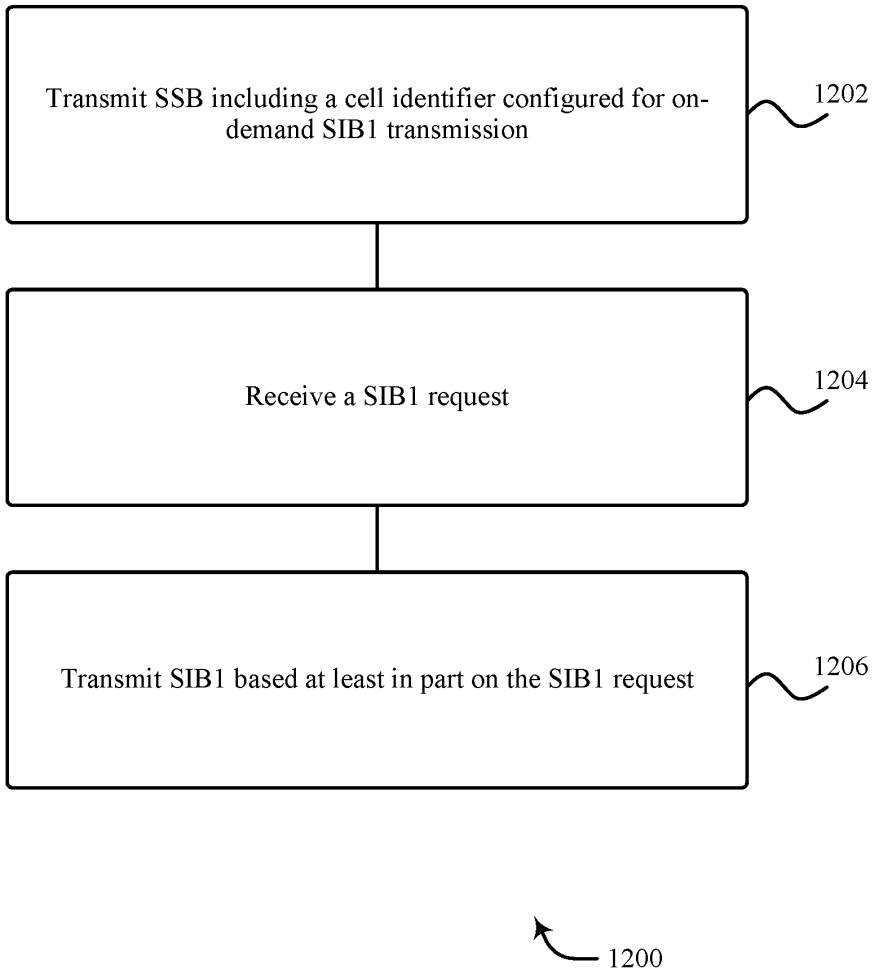

Transmit SSB including a cell identifier configured for on-demand SIB1 transmission
1202
Receive a SIB1 request
1204
Transmit SIB1 based at least in part on the SIB1 request
1206
1200

Figure 12

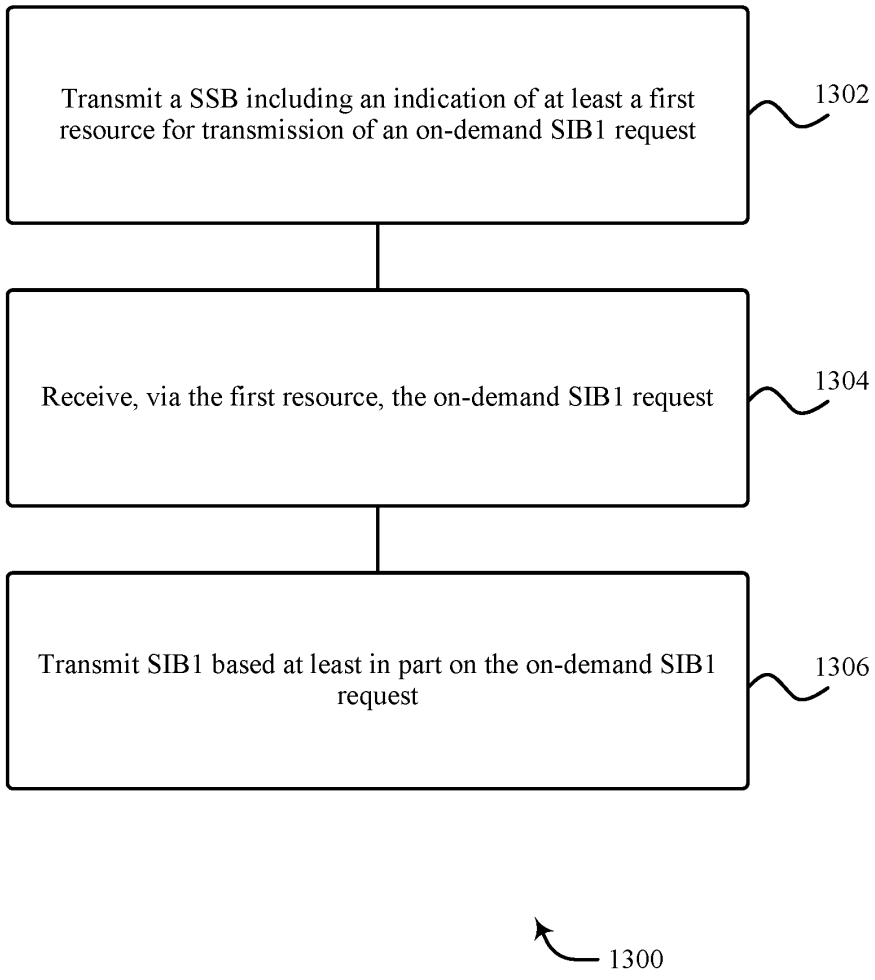

Transmit a SSB including an indication of at least a first resource for transmission of an on-demand SIB1 request
1302
Receive, via the first resource, the on-demand SIB1 request
1304
Transmit SIB1 based at least in part on the on-demand SIB1 request
1306
1300

Figure 13