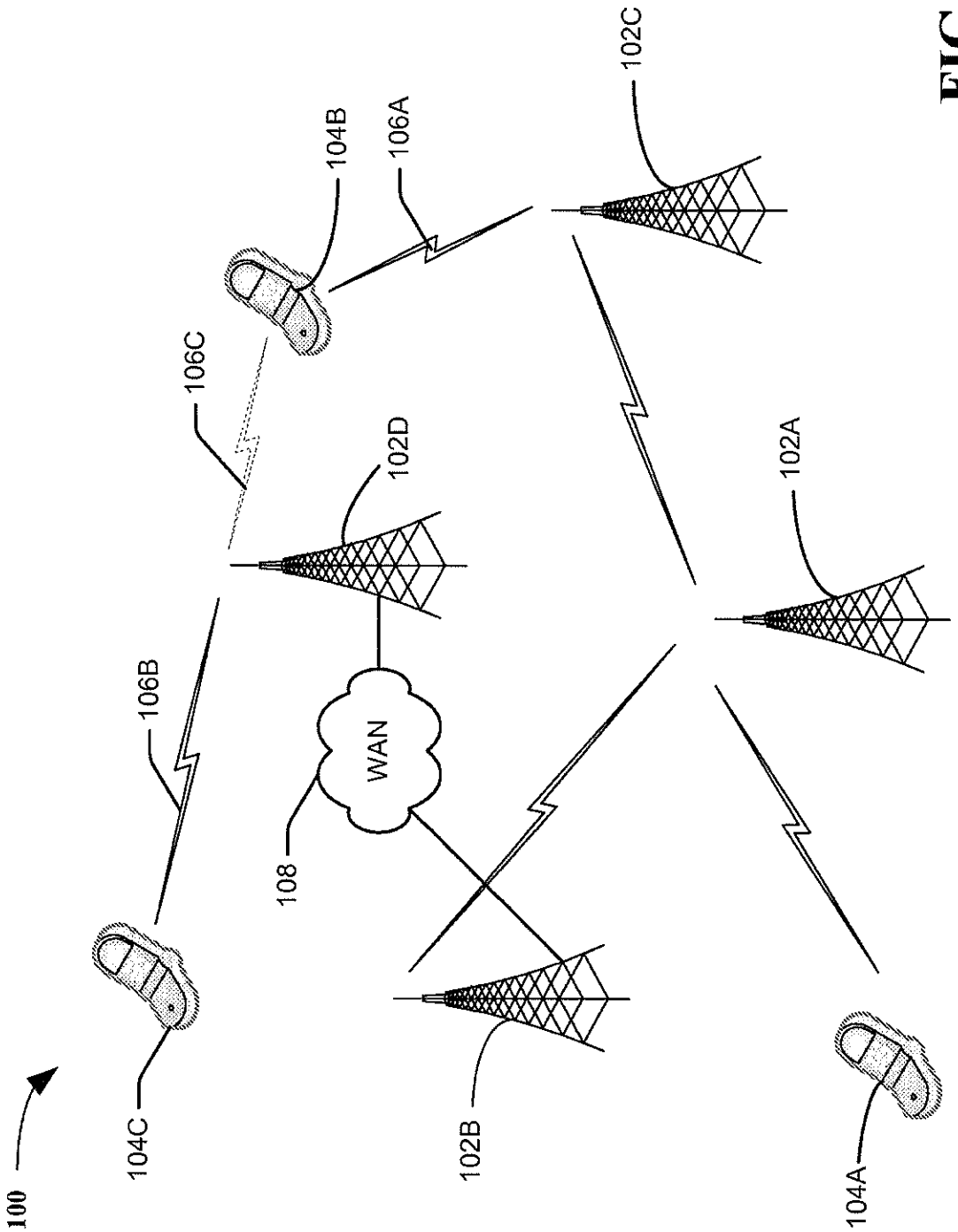


FIG. 1

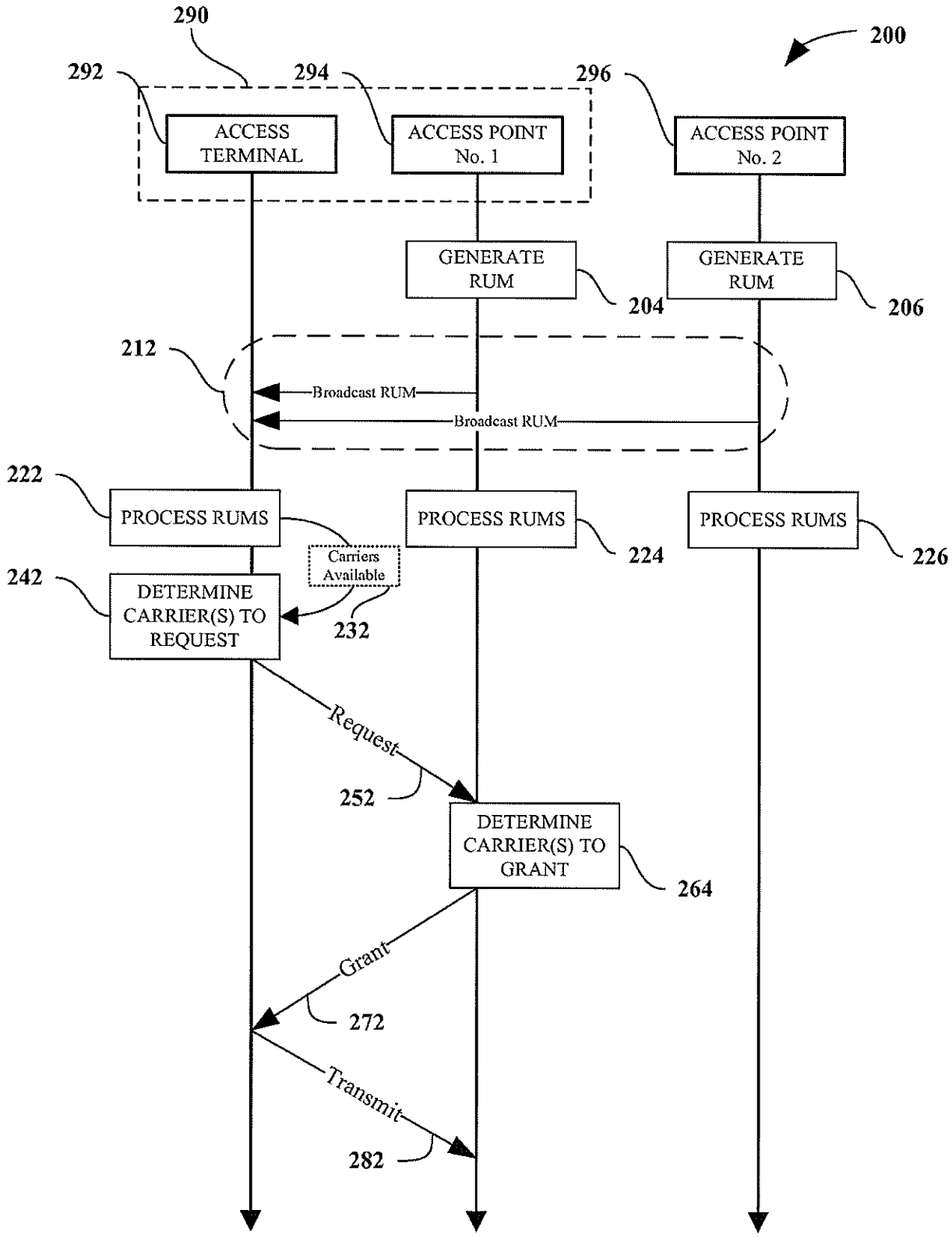

290
200
292
294
296
ACCESS TERMINAL
ACCESS POINT No. 1
ACCESS POINT No. 2
GENERATE RUM
204
GENERATE RUM
206
212
Broadcast RUM
Broadcast RUM
222
PROCESS RUMS
PROCESS RUMS
224
PROCESS RUMS
226
Carriers Available
242
DETERMINE CARRIER(S) TO REQUEST
232
Request
252
DETERMINE CARRIER(S) TO GRANT
264
Grant
272
Transmit
282

FIG. 2

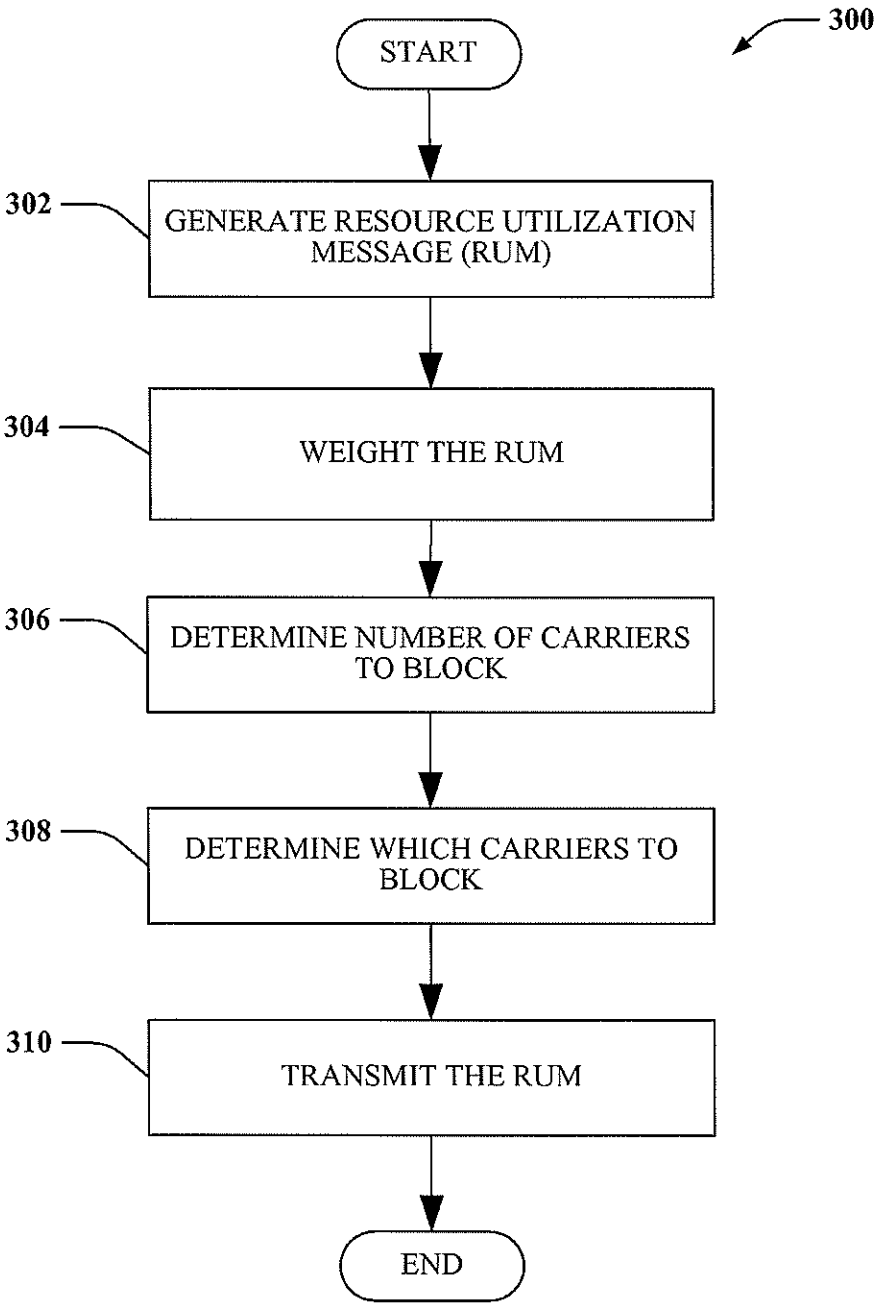
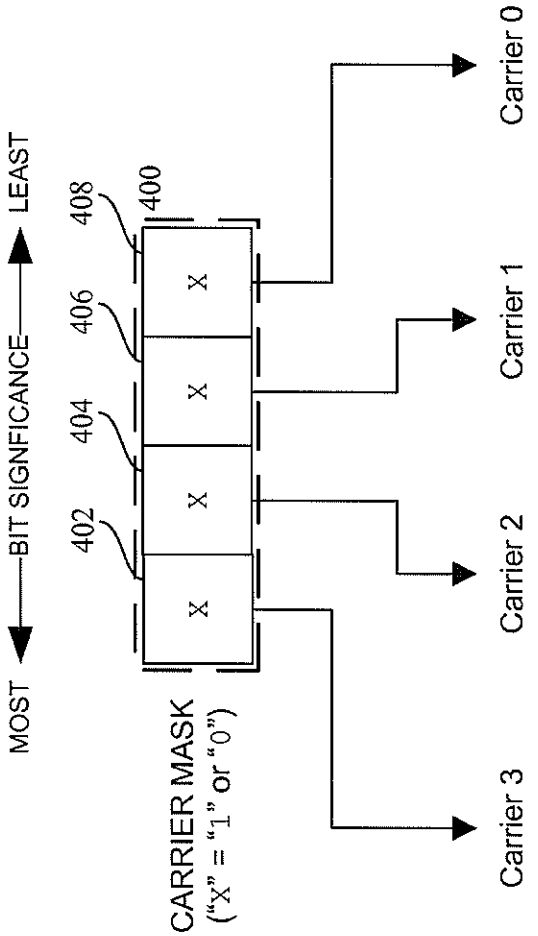

300
START
302
GENERATE RESOURCE UTILIZATION MESSAGE (RUM)
304
WEIGHT THE RUM
306
DETERMINE NUMBER OF CARRIERS TO BLOCK
308
DETERMINE WHICH CARRIERS TO BLOCK
310
TRANSMIT THE RUM
END

FIG. 3

FIG. 4


MOST
BIT SIGNFICANCE
LEAST
400
408
406
404
402
X
X
X
X
CARRIER MASK
("X" = "1" or "0")
Carrier 0
Carrier 1
Carrier 2
Carrier 3

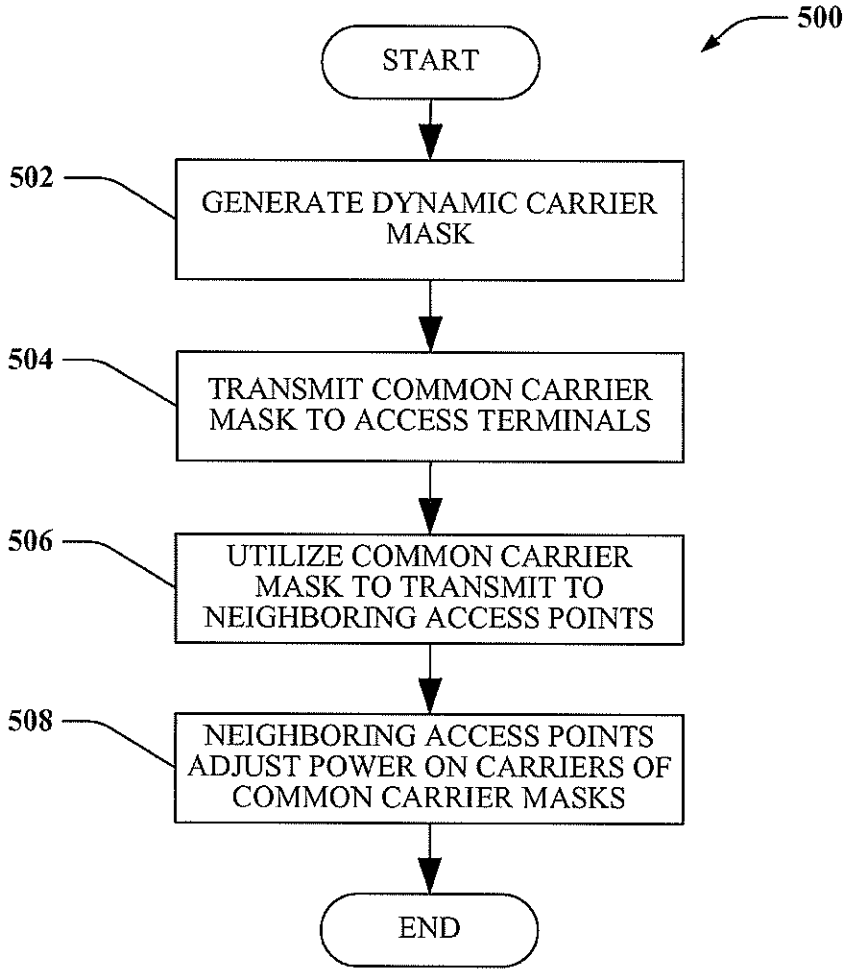

500
START
502
GENERATE DYNAMIC CARRIER MASK
504
TRANSMIT COMMON CARRIER MASK TO ACCESS TERMINALS
506
UTILIZE COMMON CARRIER MASK TO TRANSMIT TO NEIGHBORING ACCESS POINTS
508
NEIGHBORING ACCESS POINTS ADJUST POWER ON CARRIERS OF COMMON CARRIER MASKS
END

FIG. 5

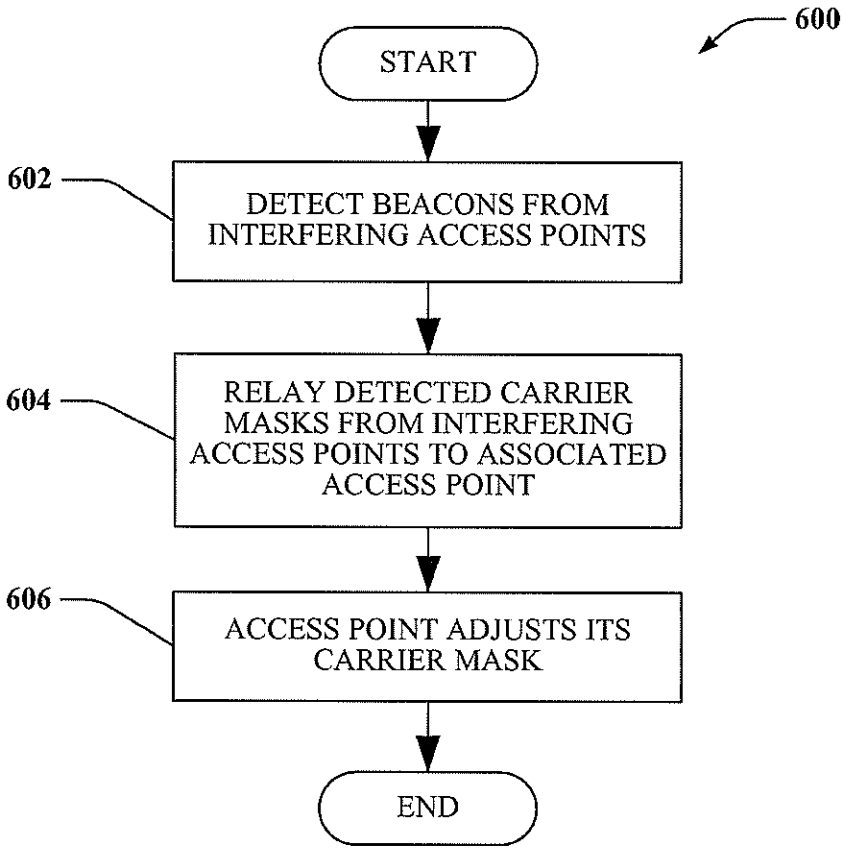

600
START
602
DETECT BEACONS FROM INTERFERING ACCESS POINTS
604
RELAY DETECTED CARRIER MASKS FROM INTERFERING ACCESS POINTS TO ASSOCIATED ACCESS POINT
606
ACCESS POINT ADJUSTS ITS CARRIER MASK
END

FIG. 6

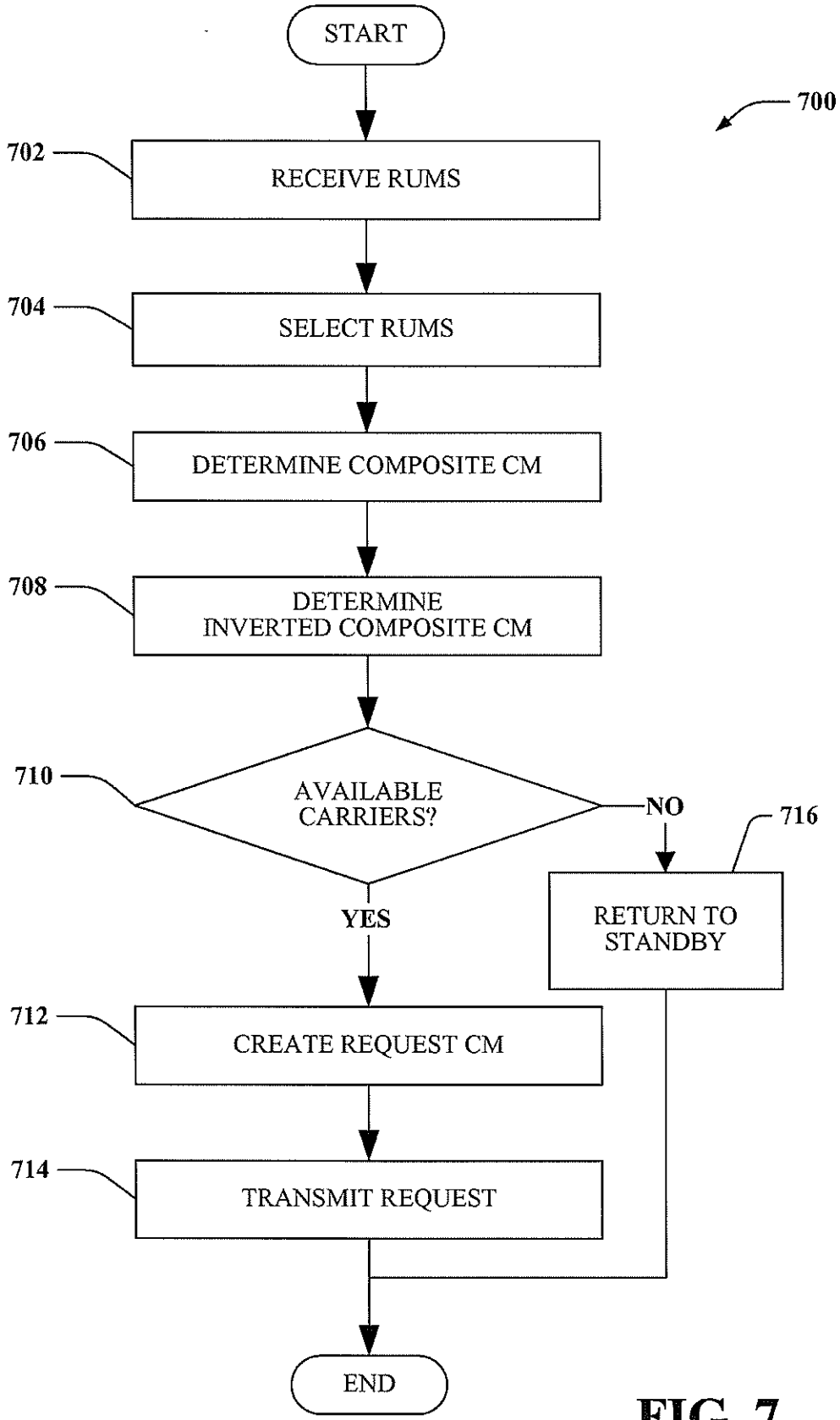

START
700
702
RECEIVE RUMS
704
SELECT RUMS
706
DETERMINE COMPOSITE CM
708
DETERMINE INVERTED COMPOSITE CM
710
AVAILABLE CARRIERS?
NO
716
RETURN TO STANDBY
YES
712
CREATE REQUEST CM
714
TRANSMIT REQUEST
END

FIG. 7

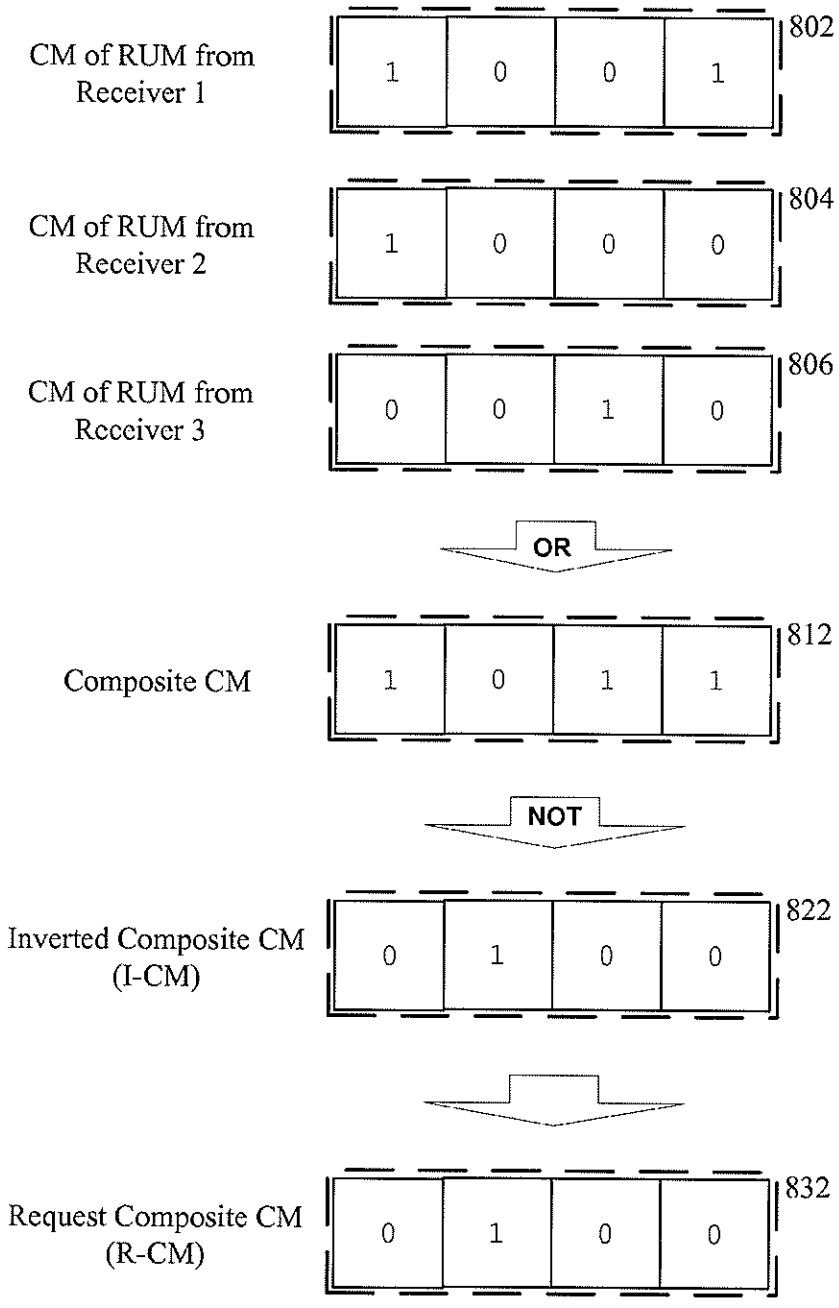

CM of RUM from Receiver 1
1 0 0 1
802
CM of RUM from Receiver 2
1 0 0 0
804
CM of RUM from Receiver 3
0 0 1 0
806
OR
Composite CM
1 0 1 1
812
NOT
Inverted Composite CM (I-CM)
0 1 0 0
822
Request Composite CM (R-CM)
0 1 0 0
832

FIG. 8

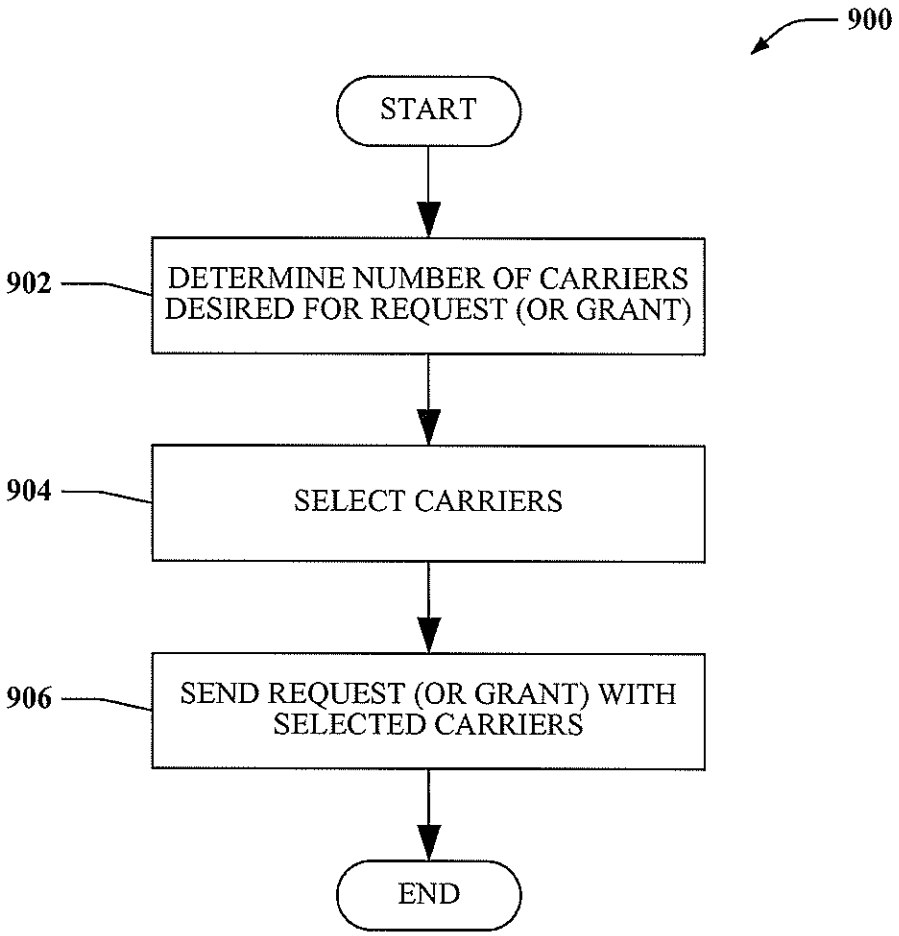

900
START
902
DETERMINE NUMBER OF CARRIERS DESIRED FOR REQUEST (OR GRANT)
904
SELECT CARRIERS
906
SEND REQUEST (OR GRANT) WITH SELECTED CARRIERS
END

FIG. 9

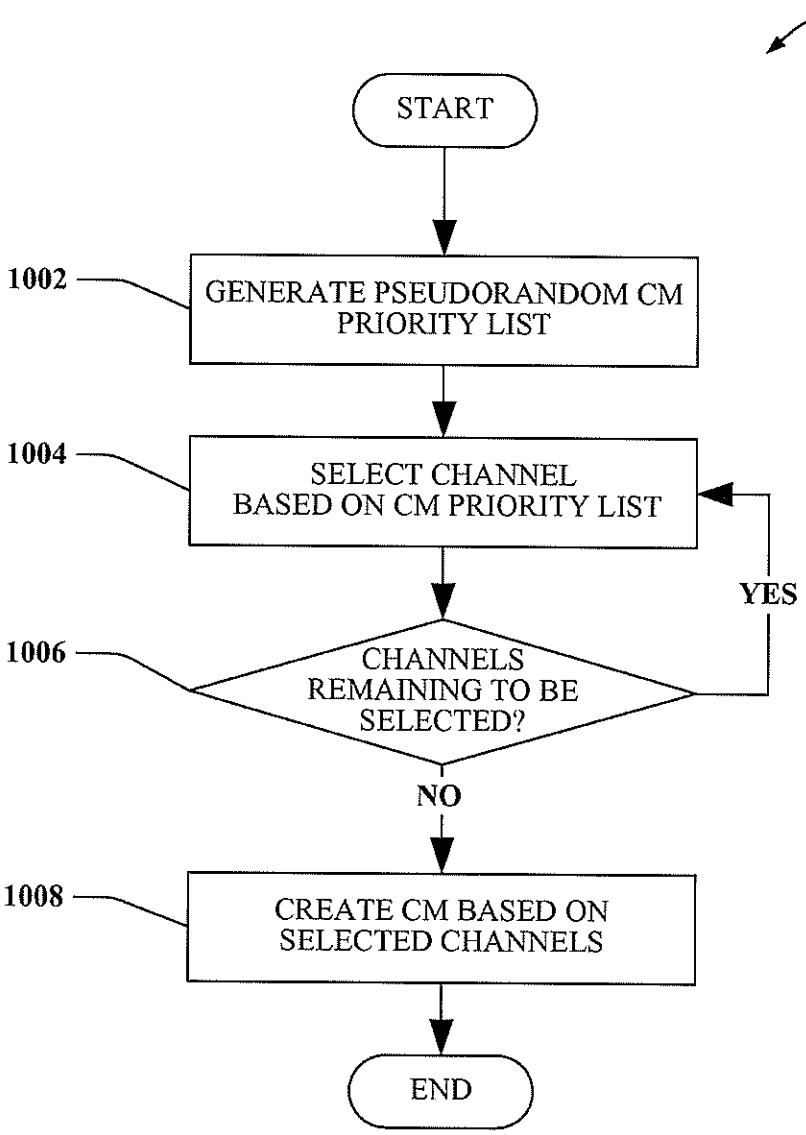

1000
START
1002
GENERATE PSEUDORANDOM CM PRIORITY LIST
1004
SELECT CHANNEL BASED ON CM PRIORITY LIST
YES
1006
CHANNELS REMAINING TO BE SELECTED?
NO
1008
CREATE CM BASED ON SELECTED CHANNELS
END

FIG. 10

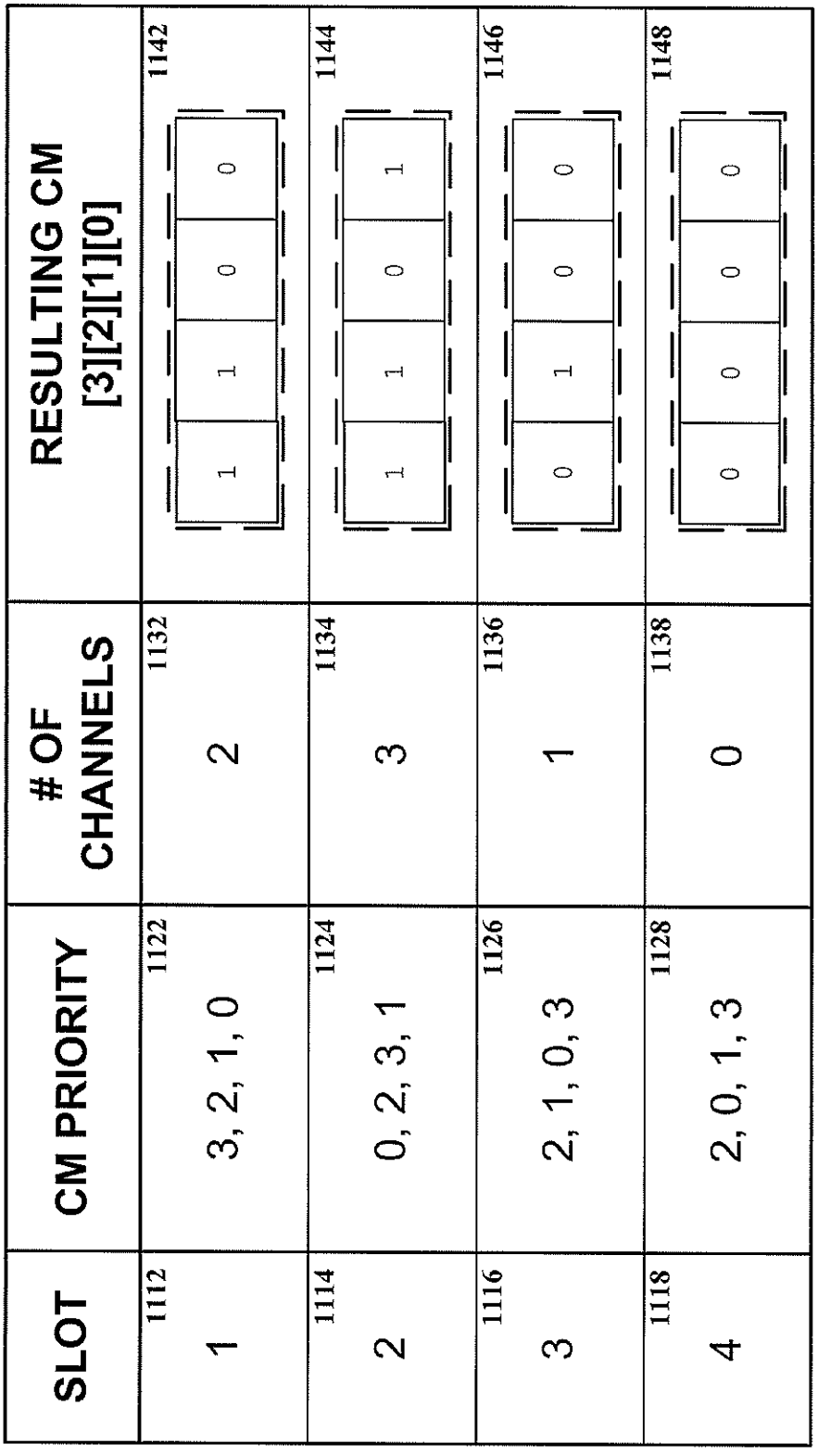

1100
1110
1120
1130
1140
SLOT
CM PRIORITY
OF CHANNELS
RESULTING CM [3][2][1][0]
1112
1
1122
3, 2, 1, 0
1132
2
1142
1 1 0 0
1114
2
1124
0, 2, 3, 1
1134
3
1144
1 1 0 1
1116
3
1126
2, 1, 0, 3
1136
1
1146
0 1 0 0
1118
4
1128
2, 0, 1, 3
1138
0
1148
0 0 0 0

FIG. 11

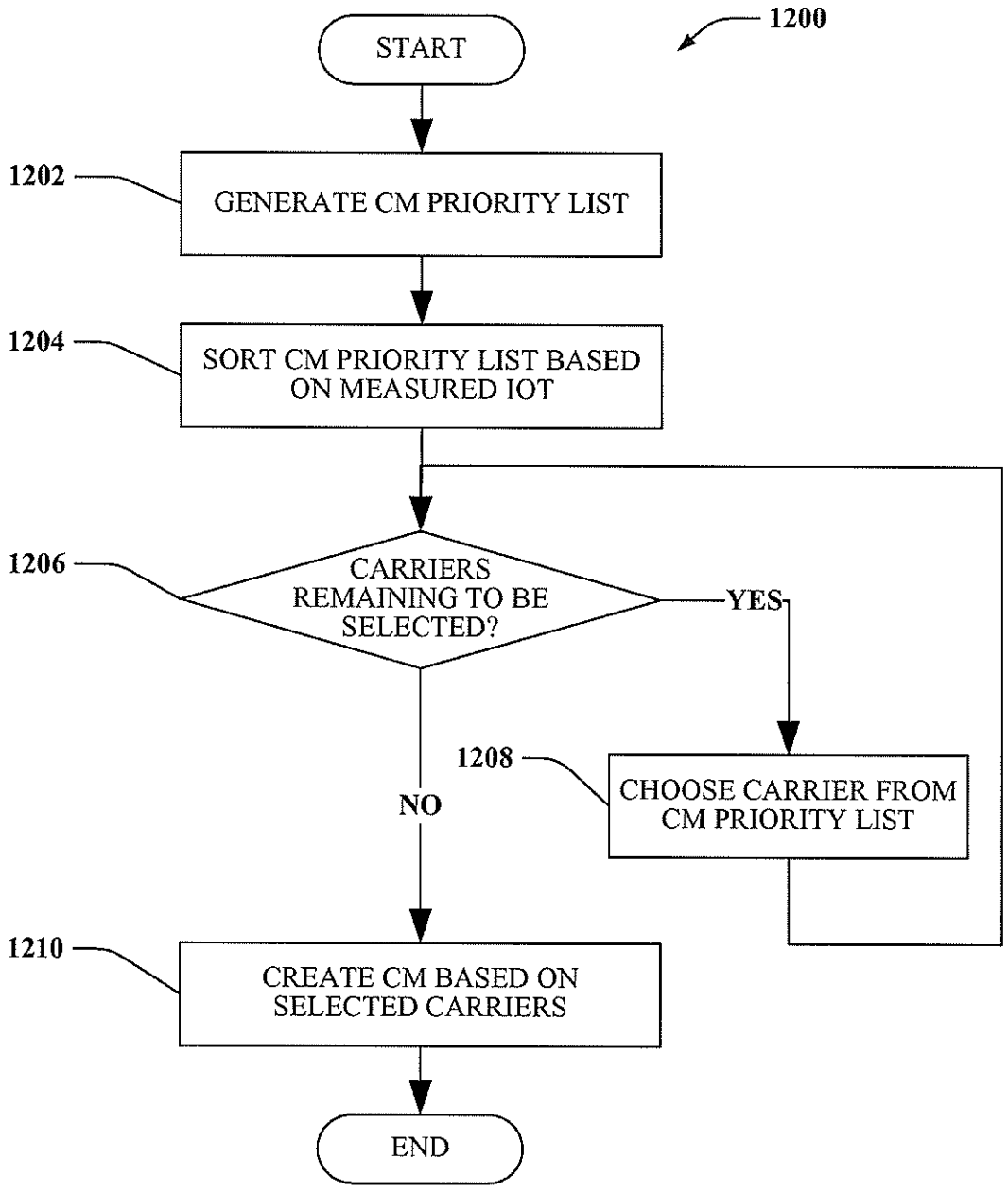

1200
START
1202
GENERATE CM PRIORITY LIST
1204
SORT CM PRIORITY LIST BASED ON MEASURED IOT
1206
CARRIERS REMAINING TO BE SELECTED?
YES
NO
1208
CHOOSE CARRIER FROM CM PRIORITY LIST
1210
CREATE CM BASED ON SELECTED CARRIERS
END

FIG. 12

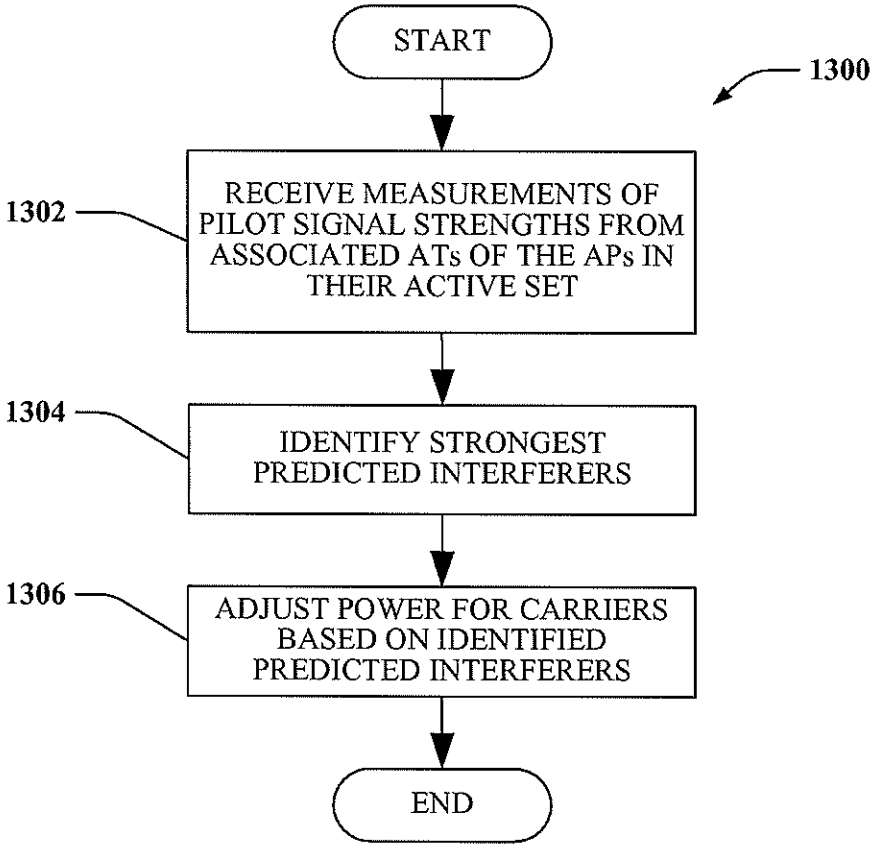

START
1300
1302
RECEIVE MEASUREMENTS OF PILOT SIGNAL STRENGTHS FROM ASSOCIATED ATs OF THE APs IN THEIR ACTIVE SET
1304
IDENTIFY STRONGEST PREDICTED INTERFERERS
1306
ADJUST POWER FOR CARRIERS BASED ON IDENTIFIED PREDICTED INTERFERERS
END

FIG. 13

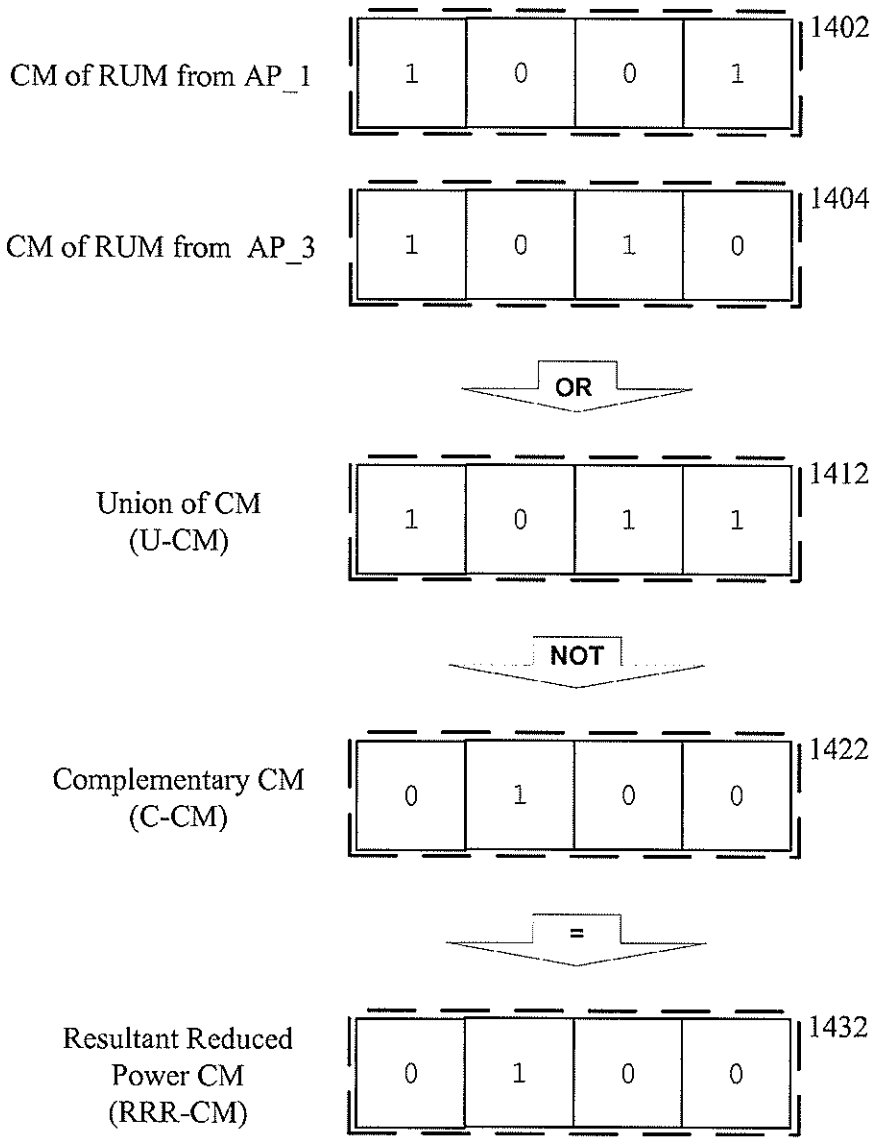

CM of RUM from AP_1
1 0 0 1
1402
CM of RUM from AP_3
1 0 1 0
1404
OR
Union of CM
(U-CM)
1 0 1 1
1412
NOT
Complementary CM
(C-CM)
0 1 0 0
1422
=
Resultant Reduced
Power CM
(RRR-CM)
0 1 0 0
1432

FIG. 14

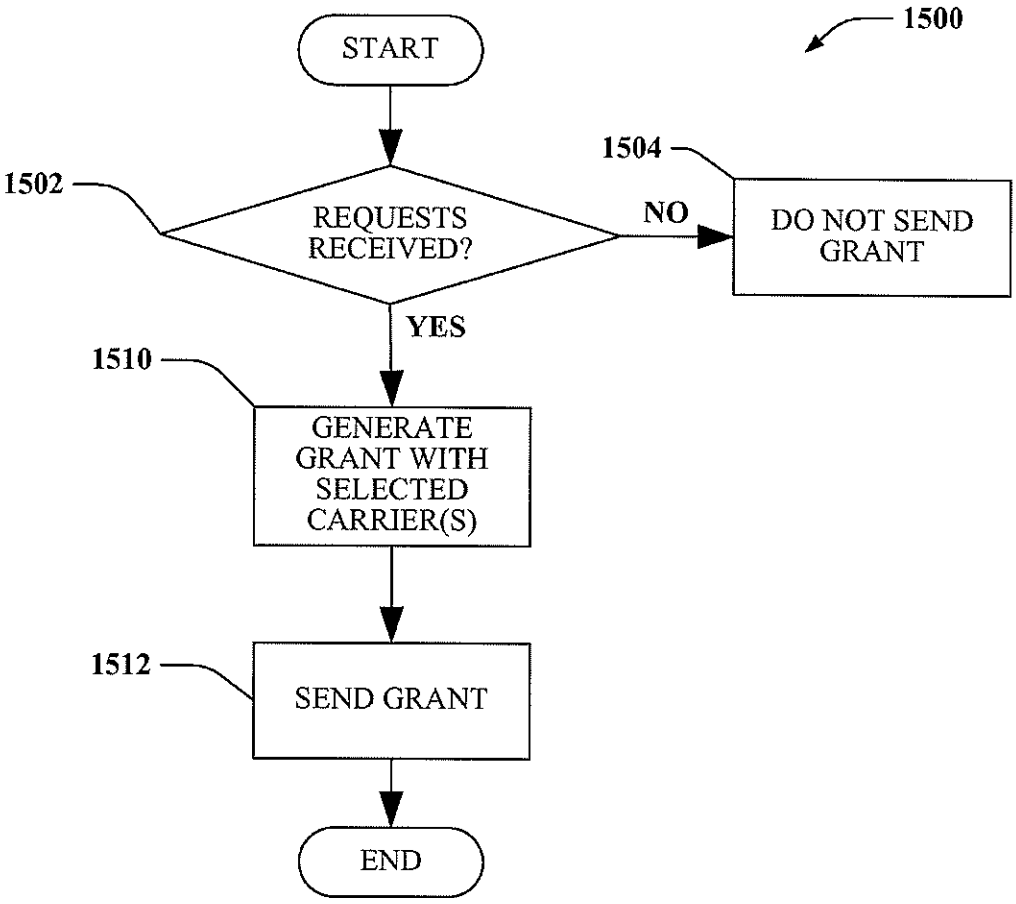

1500
START
1502
REQUESTS RECEIVED?
1504
NO
DO NOT SEND GRANT
YES
1510
GENERATE GRANT WITH SELECTED CARRIER(S)
1512
SEND GRANT
END

FIG. 15

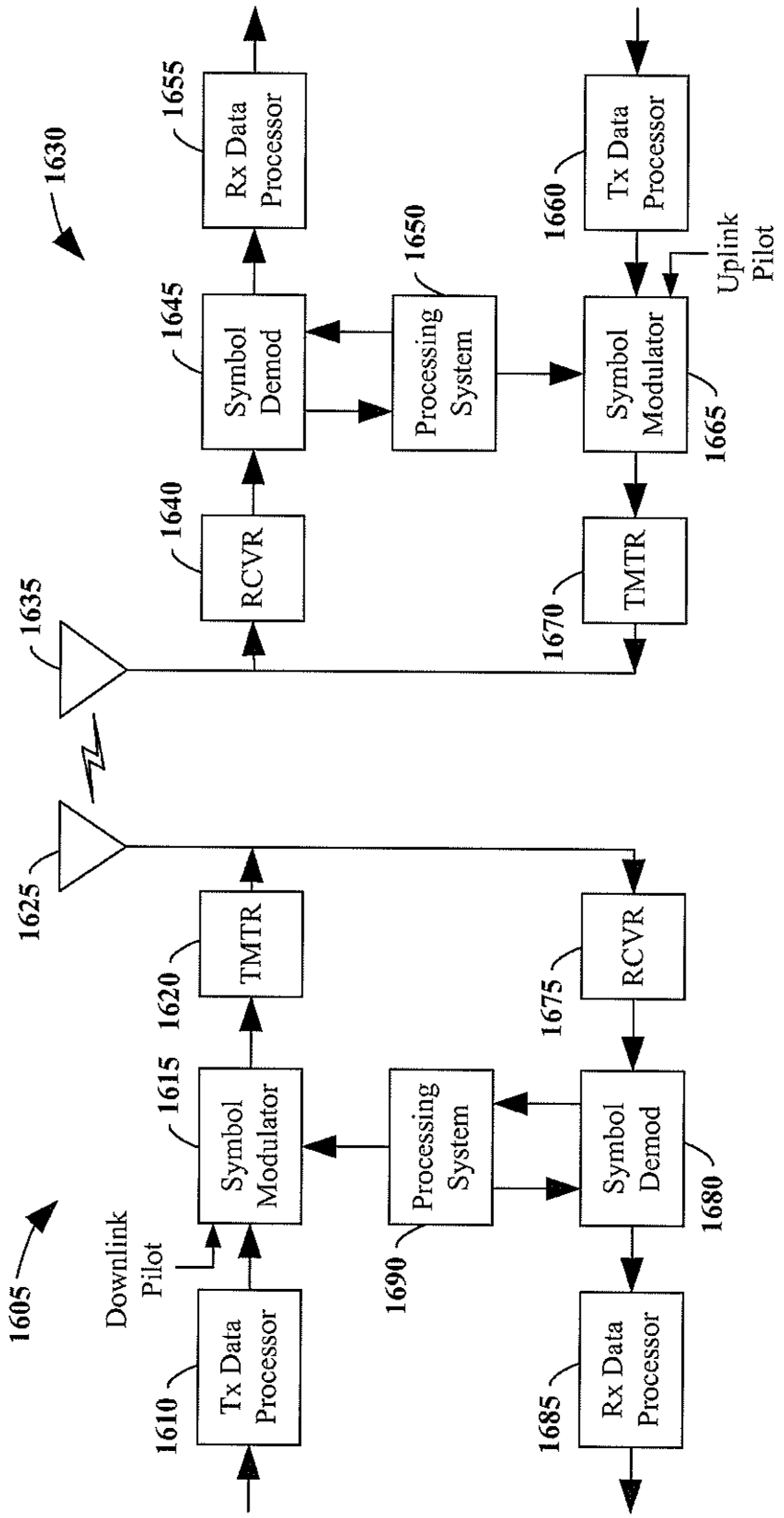

1600
1605
1610
Tx Data Processor
Downlink Pilot
1615
Symbol Modulator
1620
TMTR
1625
1630
1635
1640
RCVR
1645
Symbol Demod
1650
Processing System
1655
Rx Data Processor
1660
Tx Data Processor
Uplink Pilot
1665
Symbol Modulator
1670
TMTR
1675
RCVR
1680
Symbol Demod
1685
Rx Data Processor
1690
Processing System

FIG. 16

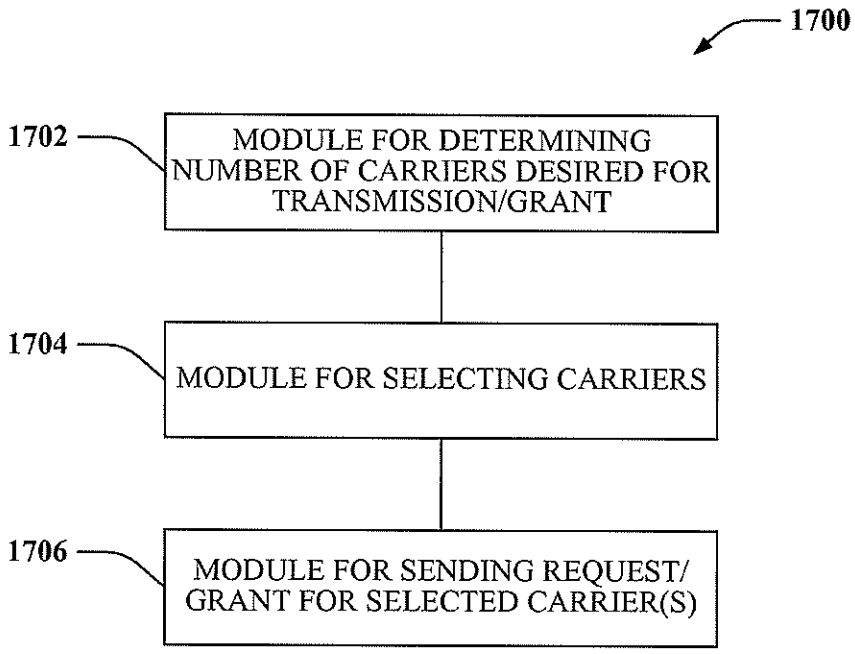

1700
1702
MODULE FOR DETERMINING NUMBER OF CARRIERS DESIRED FOR TRANSMISSION/GRANT
1704
MODULE FOR SELECTING CARRIERS
1706
MODULE FOR SENDING REQUEST/ GRANT FOR SELECTED CARRIER(S)

FIG. 17

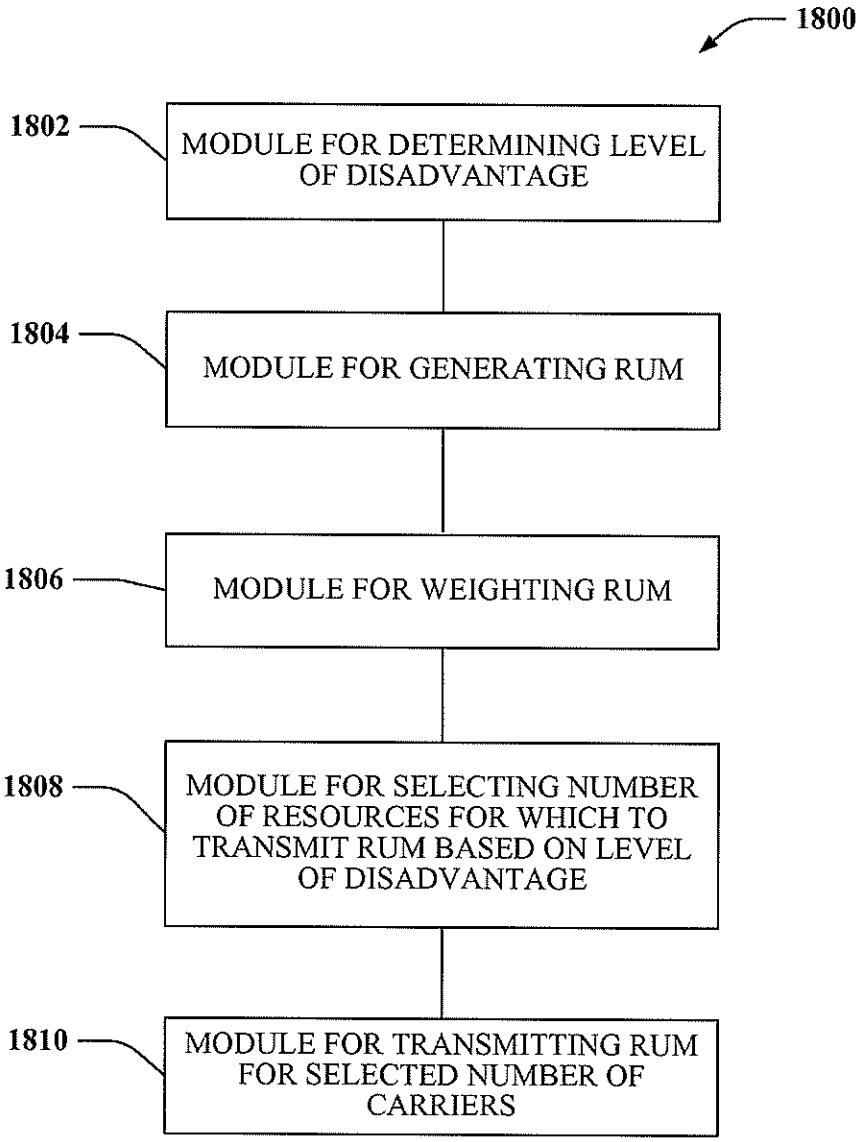

1800
1802
MODULE FOR DETERMINING LEVEL OF DISADVANTAGE
1804
MODULE FOR GENERATING RUM
1806
MODULE FOR WEIGHTING RUM
1808
MODULE FOR SELECTING NUMBER OF RESOURCES FOR WHICH TO TRANSMIT RUM BASED ON LEVEL OF DISADVANTAGE
1810
MODULE FOR TRANSMITTING RUM FOR SELECTED NUMBER OF CARRIERS

FIG. 18

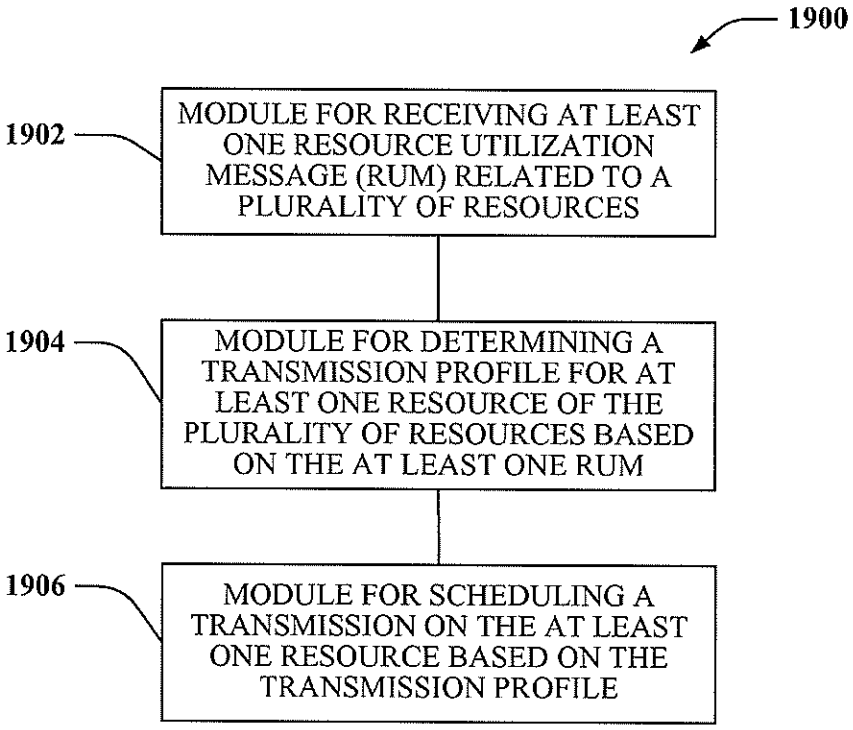

1900
1902
MODULE FOR RECEIVING AT LEAST ONE RESOURCE UTILIZATION MESSAGE (RUM) RELATED TO A PLURALITY OF RESOURCES
1904
MODULE FOR DETERMINING A TRANSMISSION PROFILE FOR AT LEAST ONE RESOURCE OF THE PLURALITY OF RESOURCES BASED ON THE AT LEAST ONE RUM
1906
MODULE FOR SCHEDULING A TRANSMISSION ON THE AT LEAST ONE RESOURCE BASED ON THE TRANSMISSION PROFILE

FIG. 19