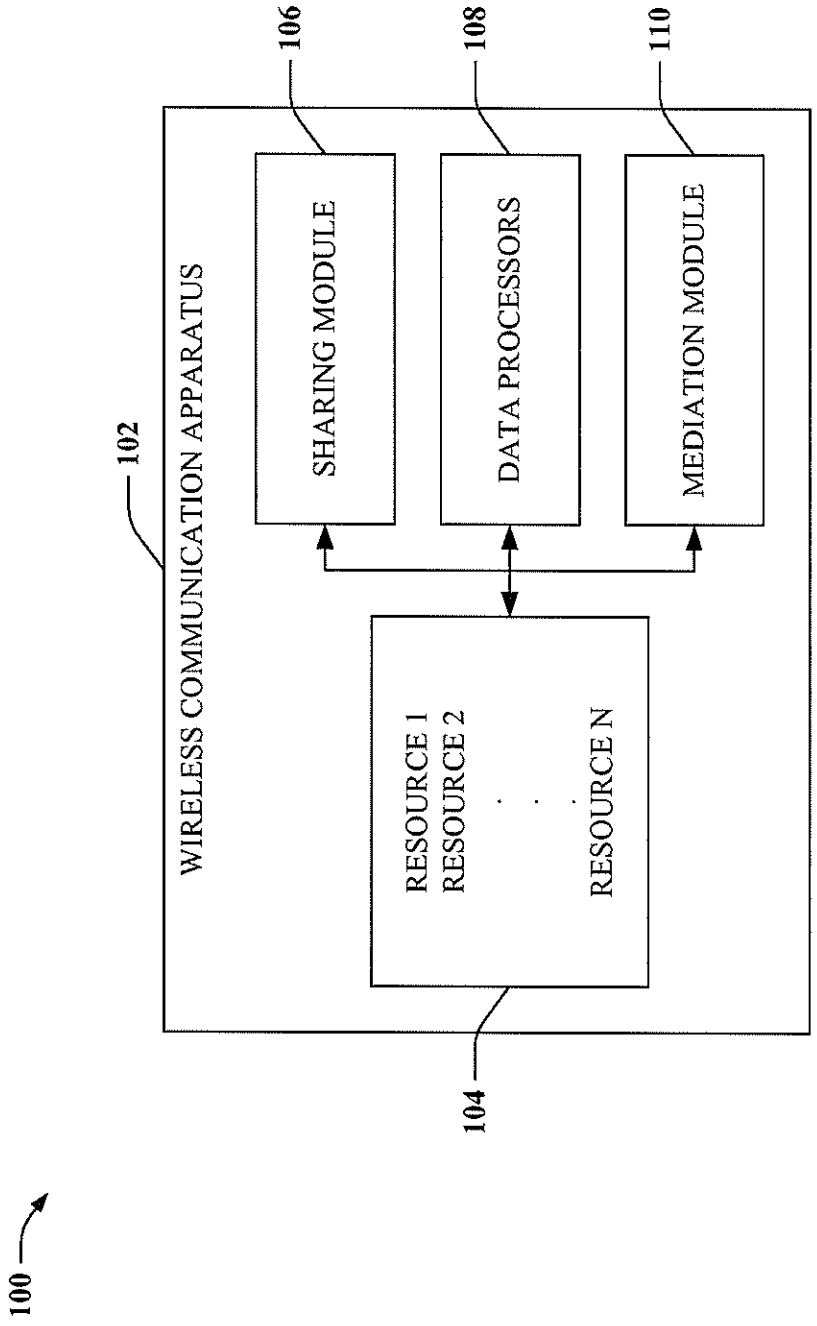

100
102
WIRELESS COMMUNICATION APPARATUS
106
SHARING MODULE
108
DATA PROCESSORS
110
MEDIATION MODULE
RESOURCE 1
RESOURCE 2
.
.
.
RESOURCE N
104

FIG. 1

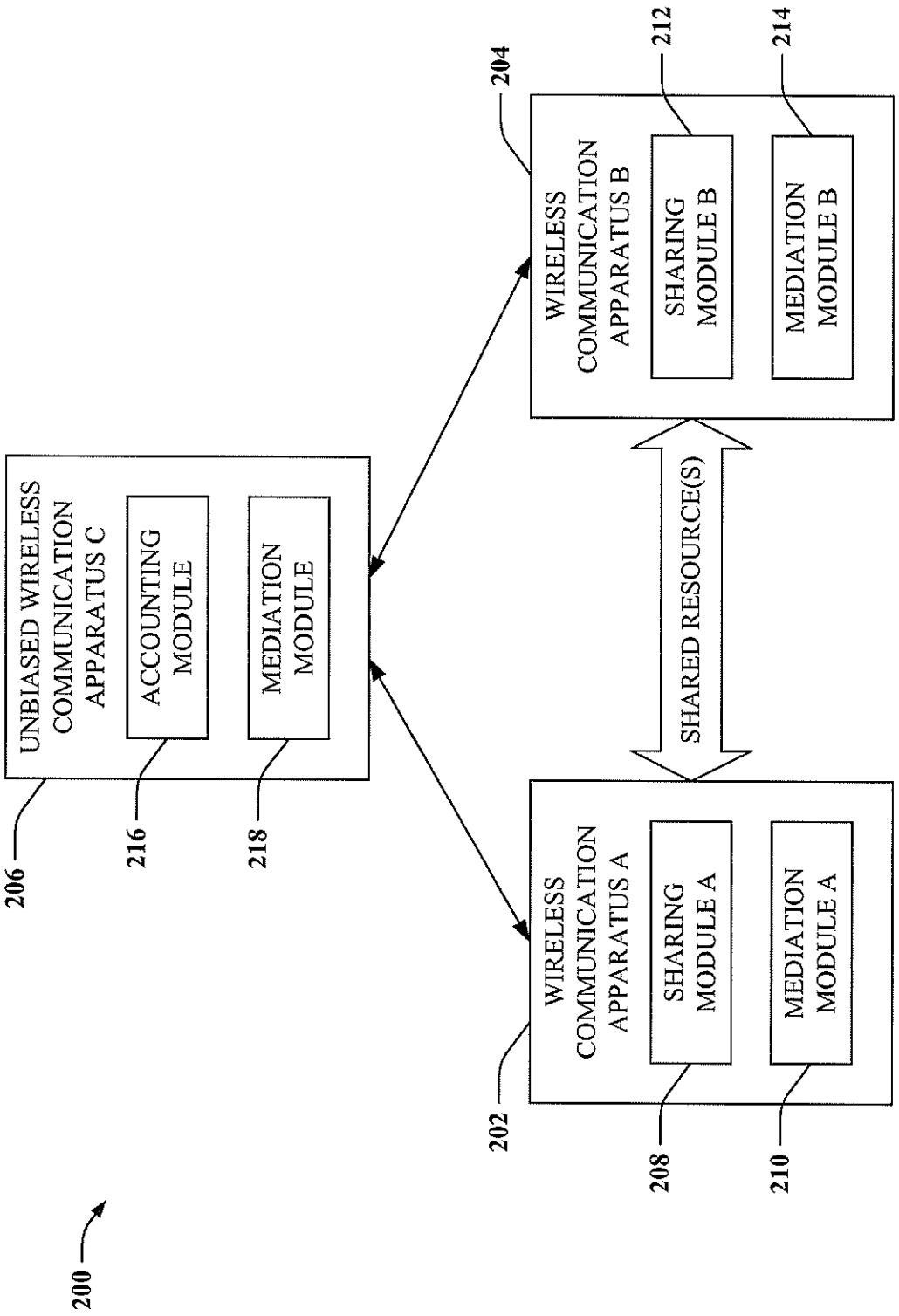

200
UNBIASED WIRELESS COMMUNICATION APPARATUS C
ACCOUNTING MODULE
MEDIATION MODULE
206
216
218
WIRELESS COMMUNICATION APPARATUS A
SHARING MODULE A
MEDIATION MODULE A
202
208
210
WIRELESS COMMUNICATION APPARATUS B
SHARING MODULE B
MEDIATION MODULE B
204
212
214
SHARED RESOURCE(S)

FIG. 2

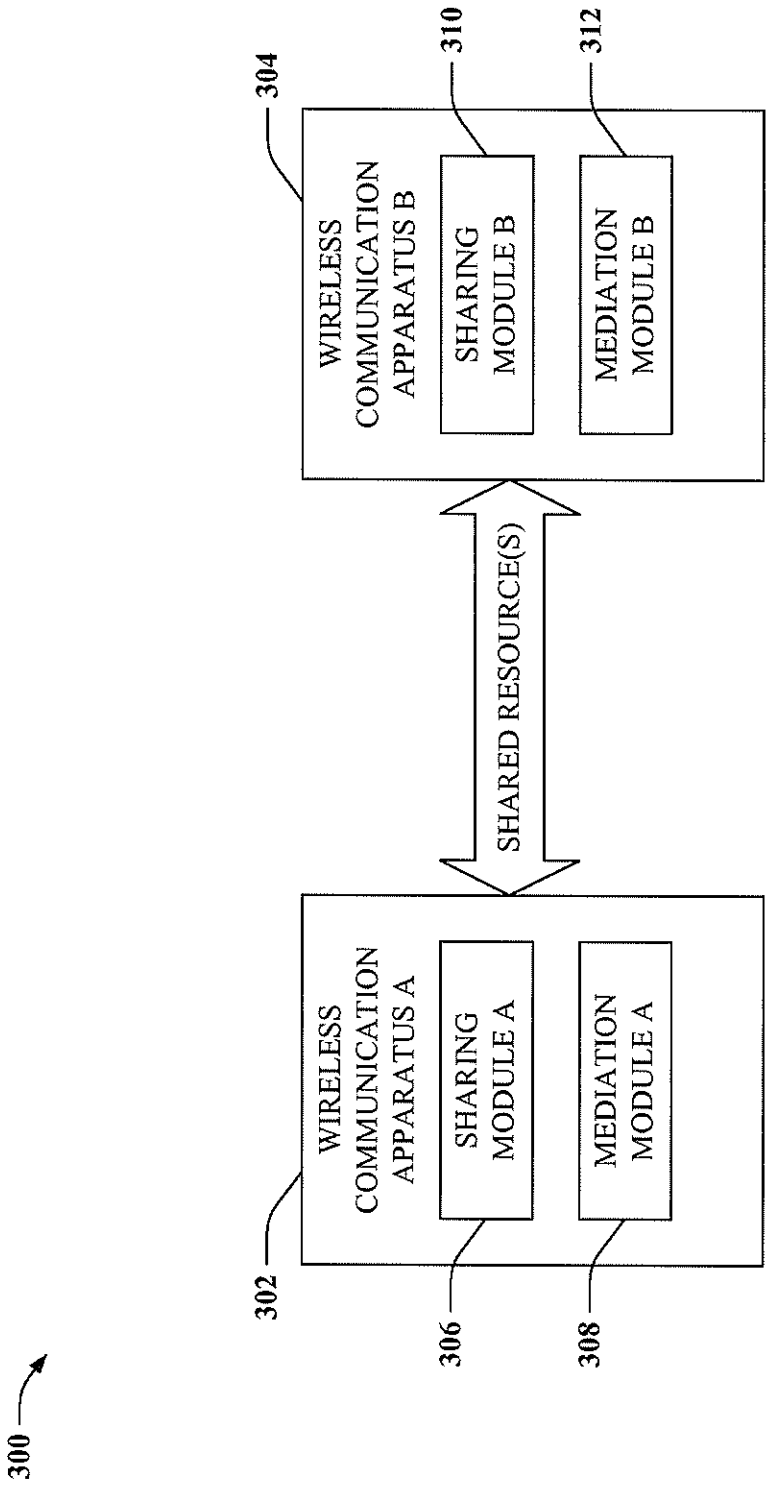

300
302
WIRELESS COMMUNICATION APPARATUS A
SHARING MODULE A
MEDIATION MODULE A
306
308
SHARED RESOURCE(S)
304
WIRELESS COMMUNICATION APPARATUS B
SHARING MODULE B
MEDIATION MODULE B
310
312

FIG. 3

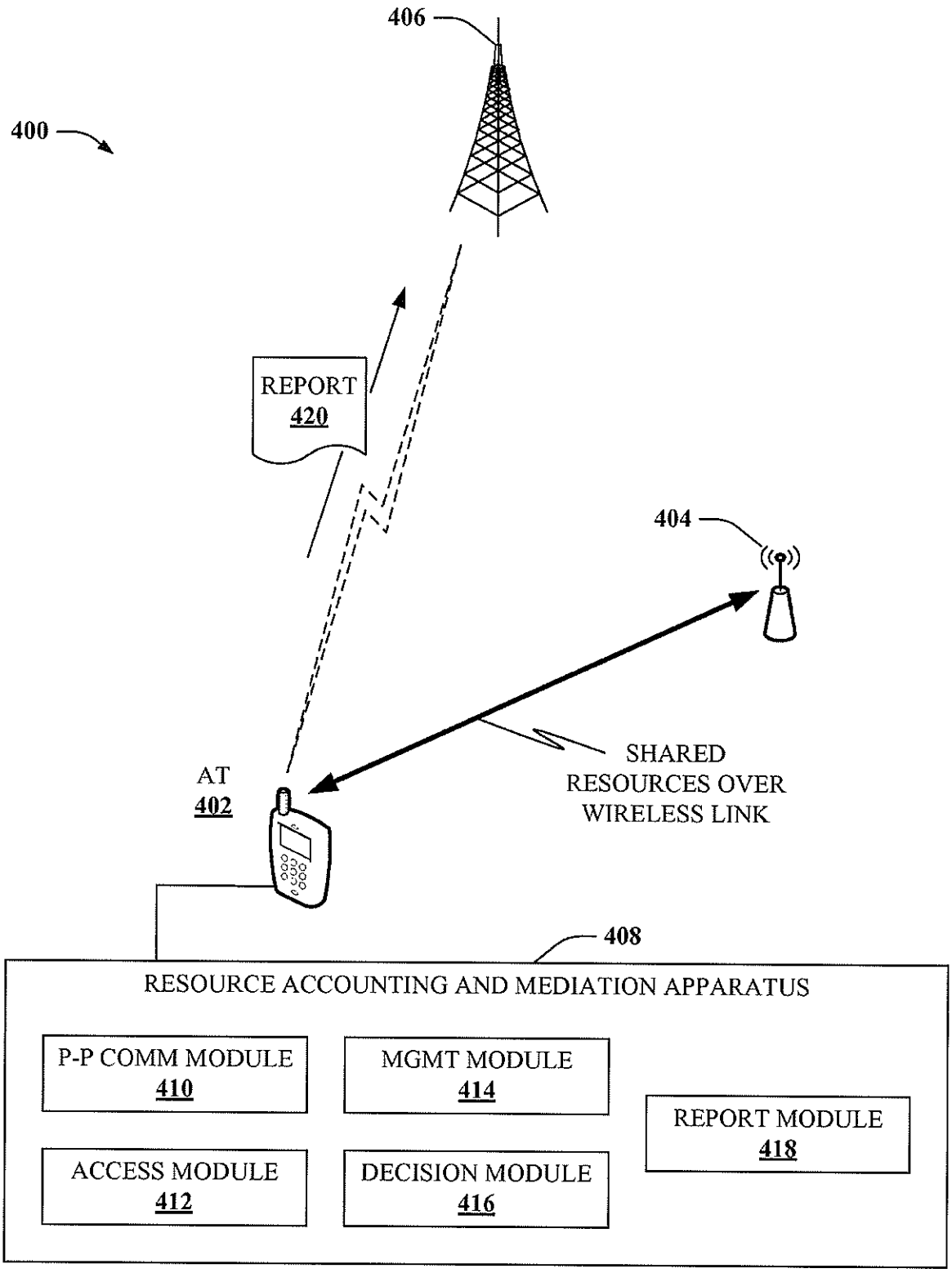

406
400
REPORT
420
404
SHARED
RESOURCES OVER
WIRELESS LINK
AT
402
408
RESOURCE ACCOUNTING AND MEDIATION APPARATUS
P-P COMM MODULE
410
MGMT MODULE
414
REPORT MODULE
418
ACCESS MODULE
412
DECISION MODULE
416

FIG. 4

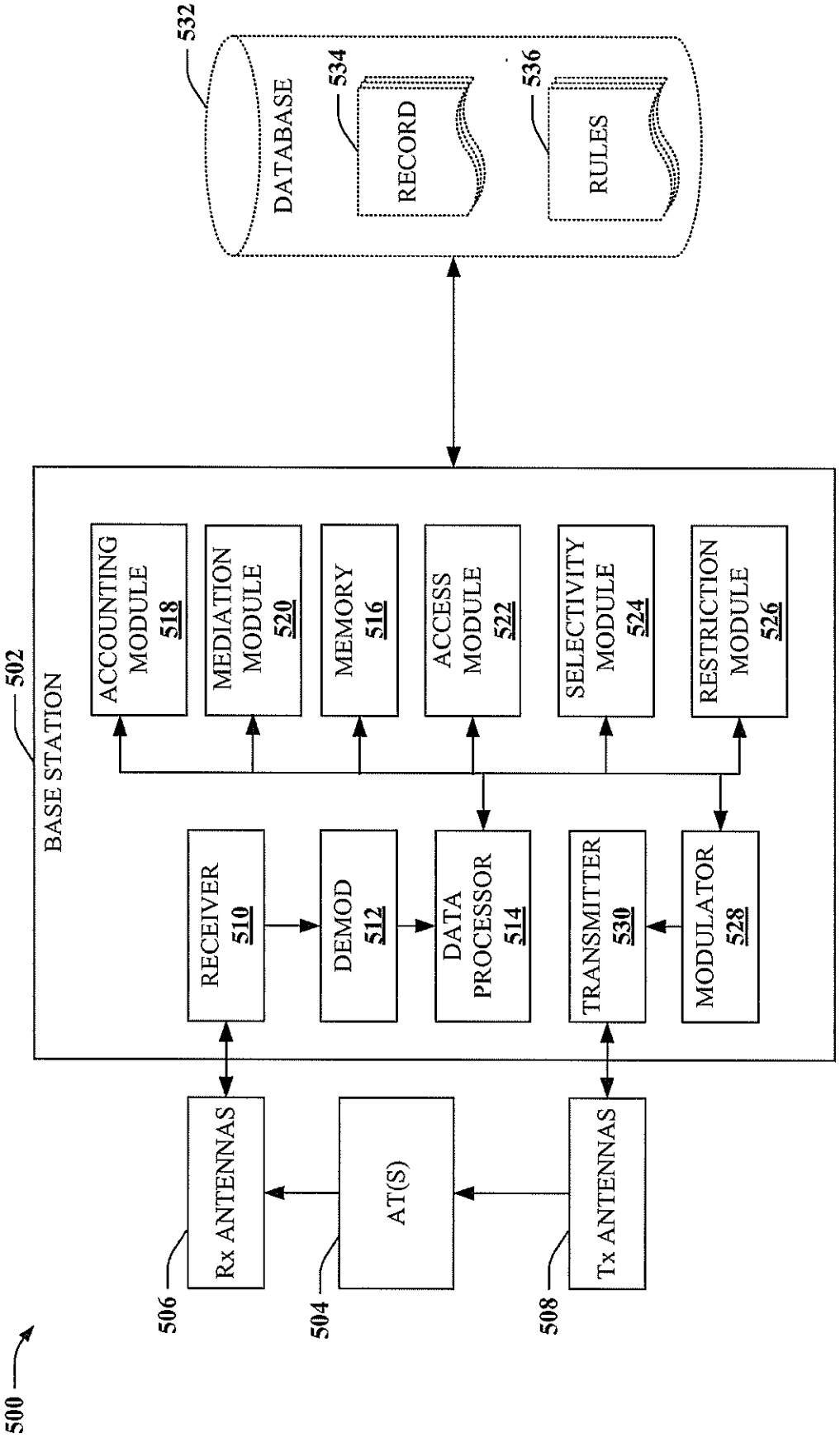

500
506
Rx ANTENNAS
504
AT(S)
508
Tx ANTENNAS
502
BASE STATION
RECEIVER 510
DEMOD 512
DATA PROCESSOR 514
TRANSMITTER 530
MODULATOR 528
ACCOUNTING MODULE 518
MEDIATION MODULE 520
MEMORY 516
ACCESS MODULE 522
SELECTIVITY MODULE 524
RESTRICTION MODULE 526
532
DATABASE
534
RECORD
536
RULES

FIG. 5

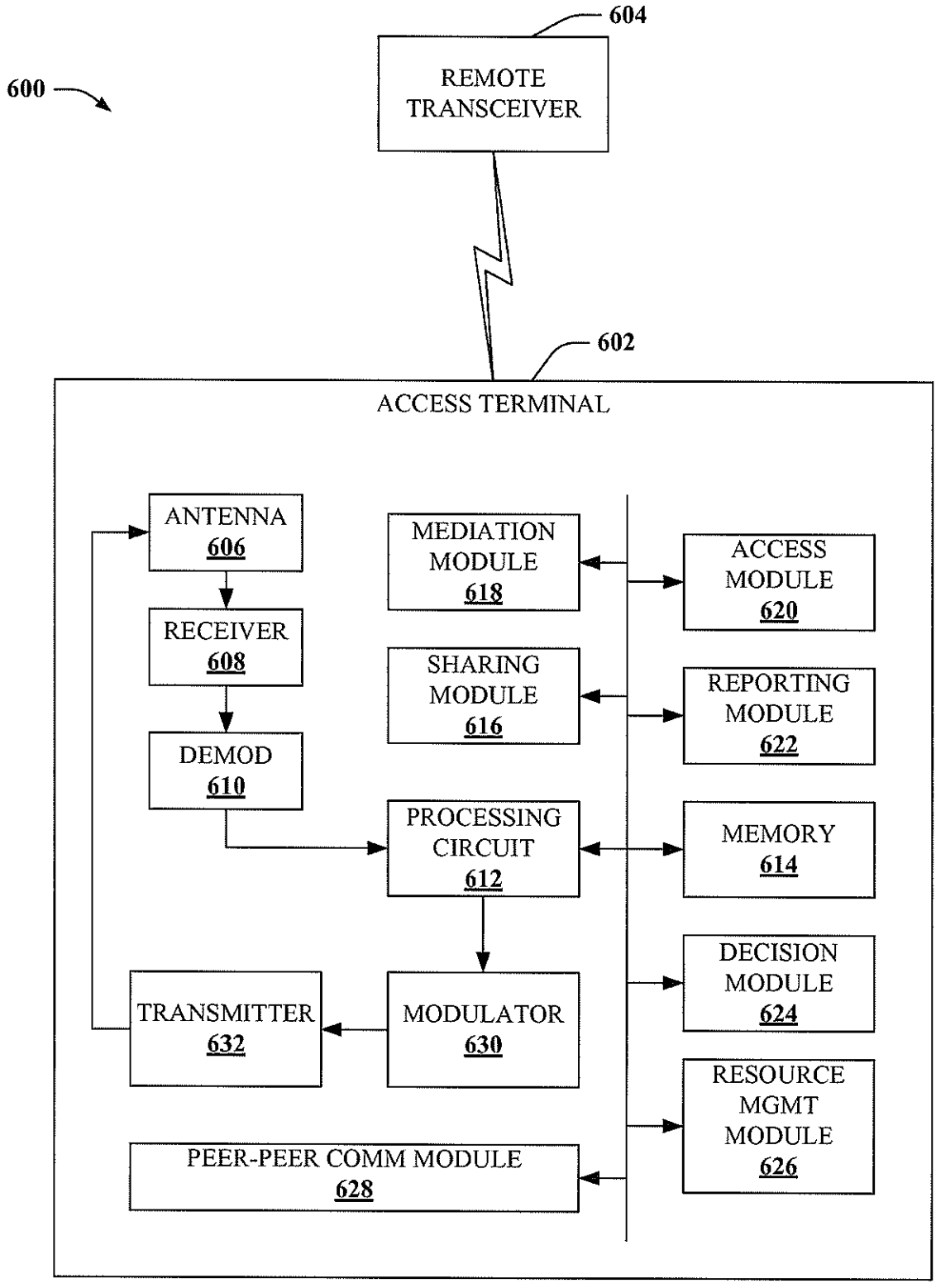

600
604
REMOTE TRANSCEIVER
602
ACCESS TERMINAL
ANTENNA 606
RECEIVER 608
DEMOD 610
PROCESSING CIRCUIT 612
TRANSMITTER 632
MODULATOR 630
PEER-PEER COMM MODULE 628
MEDIATION MODULE 618
SHARING MODULE 616
ACCESS MODULE 620
REPORTING MODULE 622
MEMORY 614
DECISION MODULE 624
RESOURCE MGMT MODULE 626

FIG. 6

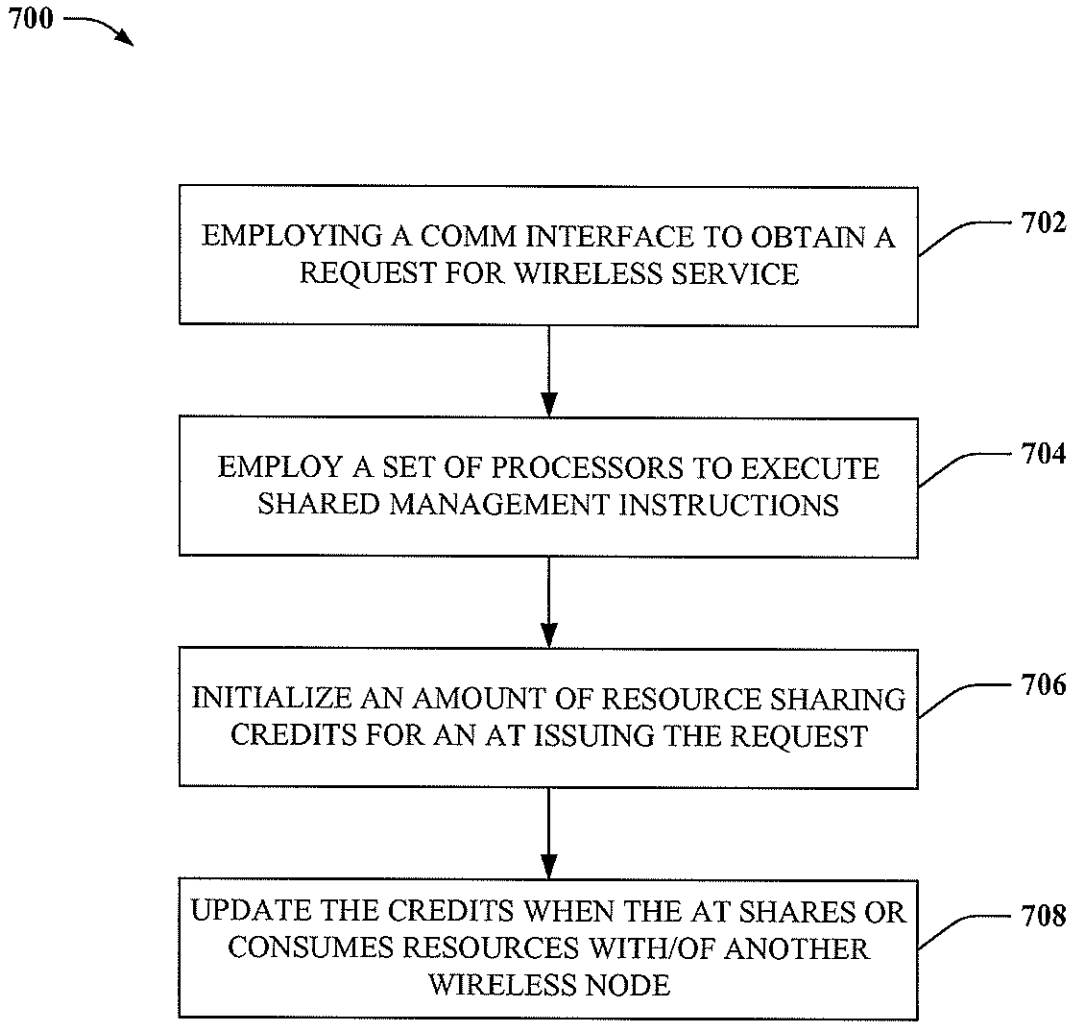

700
EMPLOYING A COMM INTERFACE TO OBTAIN A REQUEST FOR WIRELESS SERVICE
702
EMPLOY A SET OF PROCESSORS TO EXECUTE SHARED MANAGEMENT INSTRUCTIONS
704
INITIALIZE AN AMOUNT OF RESOURCE SHARING CREDITS FOR AN AT ISSUING THE REQUEST
706
UPDATE THE CREDITS WHEN THE AT SHARES OR CONSUMES RESOURCES WITH/OF ANOTHER WIRELESS NODE
708

FIG. 7

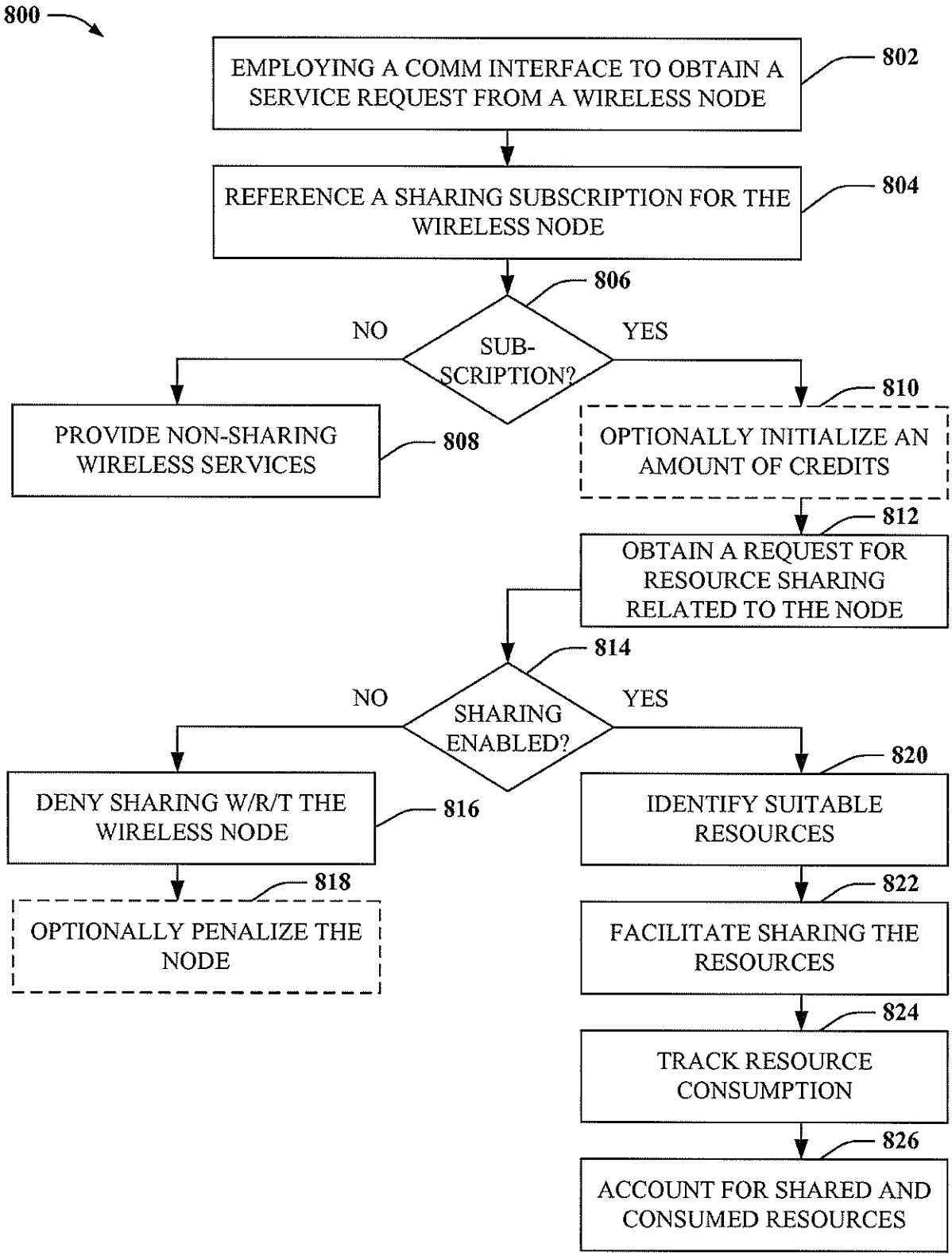

800
EMPLOYING A COMM INTERFACE TO OBTAIN A SERVICE REQUEST FROM A WIRELESS NODE
802
REFERENCE A SHARING SUBSCRIPTION FOR THE WIRELESS NODE
804
806
SUB-SCRIPTION?
NO
YES
PROVIDE NON-SHARING WIRELESS SERVICES
808
810
OPTIONALLY INITIALIZE AN AMOUNT OF CREDITS
812
OBTAIN A REQUEST FOR RESOURCE SHARING RELATED TO THE NODE
814
SHARING ENABLED?
NO
YES
DENY SHARING W/R/T THE WIRELESS NODE
816
818
OPTIONALLY PENALIZE THE NODE
820
IDENTIFY SUITABLE RESOURCES
822
FACILITATE SHARING THE RESOURCES
824
TRACK RESOURCE CONSUMPTION
826
ACCOUNT FOR SHARED AND CONSUMED RESOURCES

FIG. 8

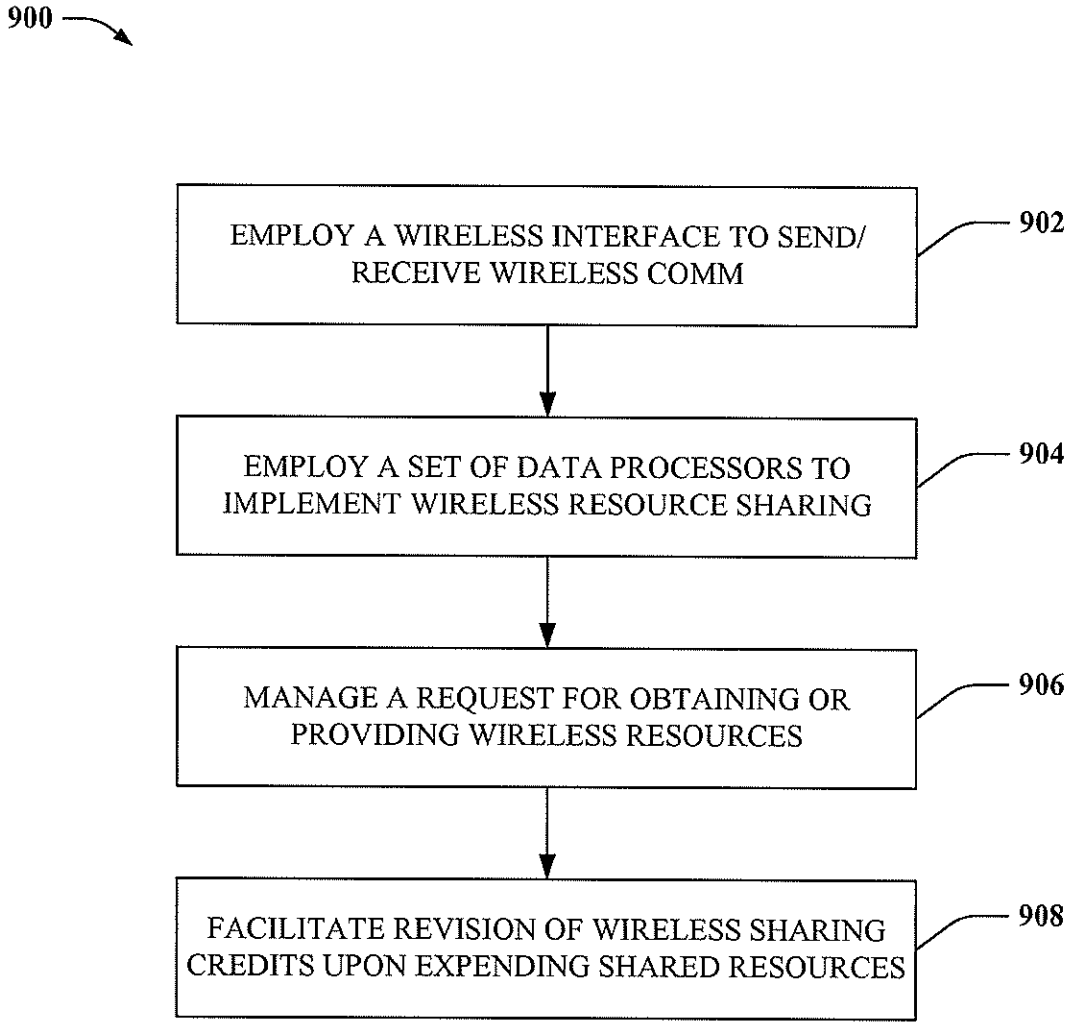

900
EMPLOY A WIRELESS INTERFACE TO SEND/ RECEIVE WIRELESS COMM
902
EMPLOY A SET OF DATA PROCESSORS TO IMPLEMENT WIRELESS RESOURCE SHARING
904
MANAGE A REQUEST FOR OBTAINING OR PROVIDING WIRELESS RESOURCES
906
FACILITATE REVISION OF WIRELESS SHARING CREDITS UPON EXPENDING SHARED RESOURCES
908

FIG. 9

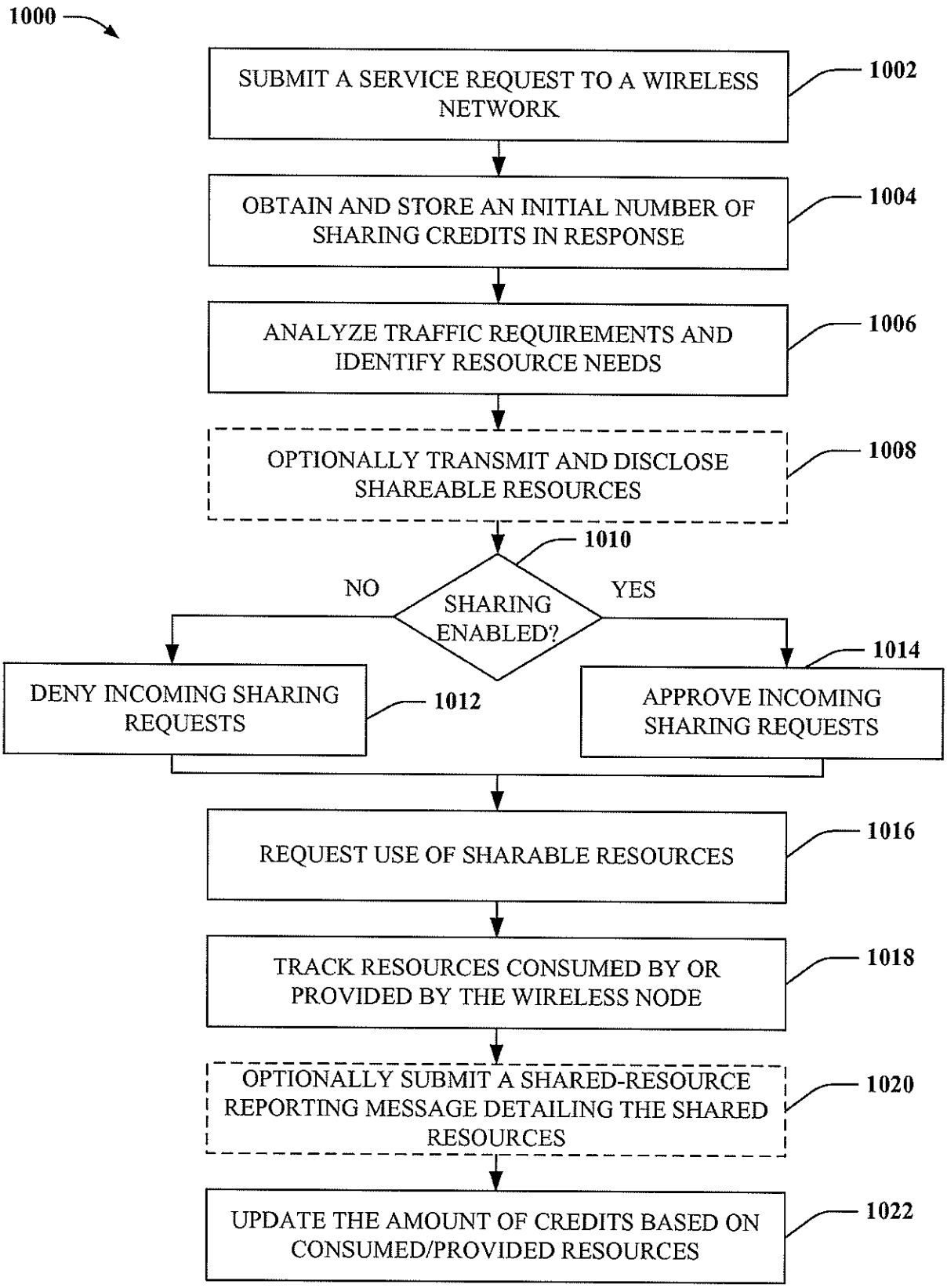

1000
SUBMIT A SERVICE REQUEST TO A WIRELESS NETWORK
1002
OBTAIN AND STORE AN INITIAL NUMBER OF SHARING CREDITS IN RESPONSE
1004
ANALYZE TRAFFIC REQUIREMENTS AND IDENTIFY RESOURCE NEEDS
1006
OPTIONALLY TRANSMIT AND DISCLOSE SHAREABLE RESOURCES
1008
1010
SHARING ENABLED?
NO
YES
DENY INCOMING SHARING REQUESTS
1012
APPROVE INCOMING SHARING REQUESTS
1014
REQUEST USE OF SHARABLE RESOURCES
1016
TRACK RESOURCES CONSUMED BY OR PROVIDED BY THE WIRELESS NODE
1018
OPTIONALLY SUBMIT A SHARED-RESOURCE REPORTING MESSAGE DETAILING THE SHARED RESOURCES
1020
UPDATE THE AMOUNT OF CREDITS BASED ON CONSUMED/PROVIDED RESOURCES
1022

FIG. 10

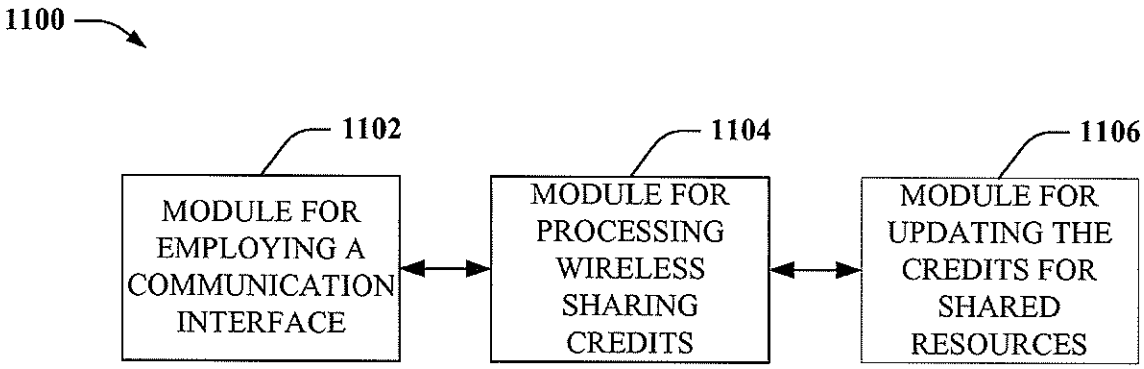

1100
1102
MODULE FOR EMPLOYING A COMMUNICATION INTERFACE
1104
MODULE FOR PROCESSING WIRELESS SHARING CREDITS
1106
MODULE FOR UPDATING THE CREDITS FOR SHARED RESOURCES

FIG. 11

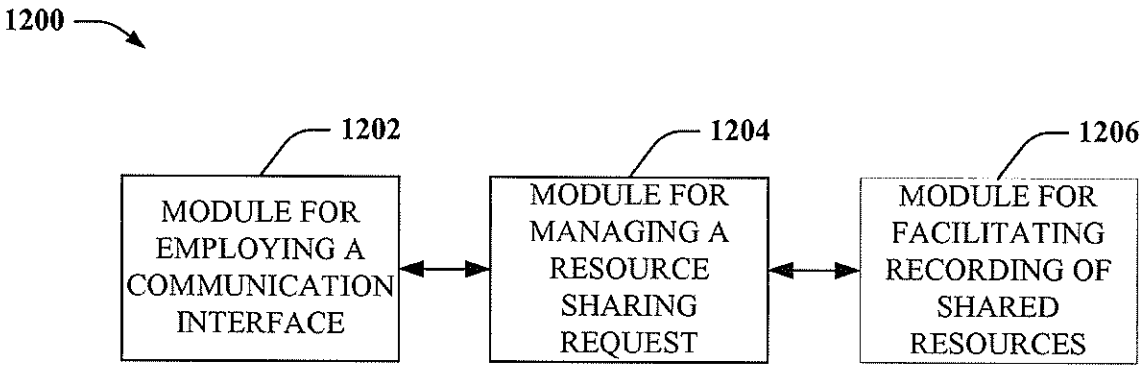

1200
1202
MODULE FOR EMPLOYING A COMMUNICATION INTERFACE
1204
MODULE FOR MANAGING A RESOURCE SHARING REQUEST
1206
MODULE FOR FACILITATING RECORDING OF SHARED RESOURCES

FIG. 12

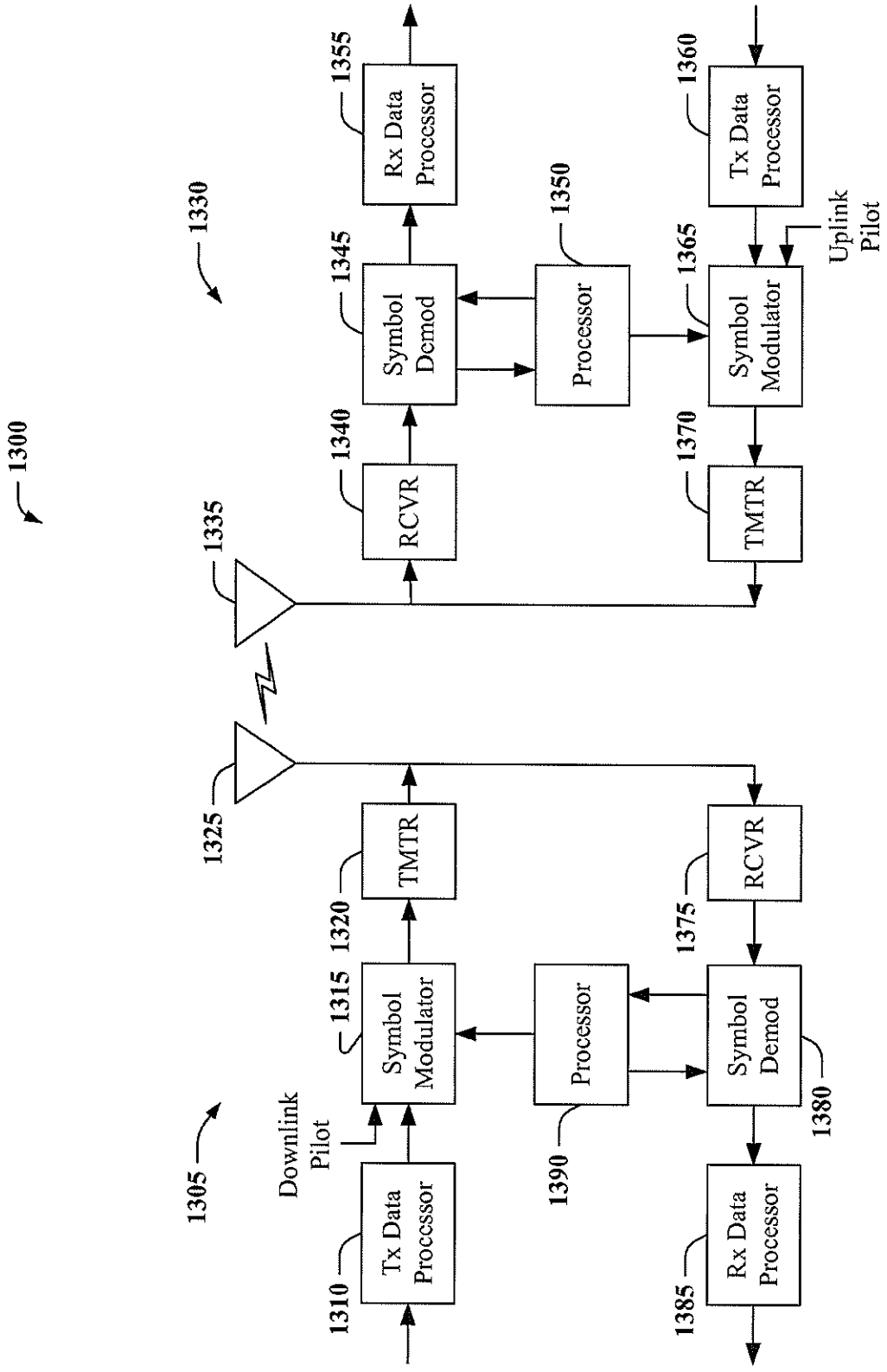

1300
1305
1310
Tx Data Processor
Downlink Pilot
1315
Symbol Modulator
1320
TMTR
1325
1330
1335
1340
RCVR
1345
Symbol Demod
Rx Data Processor
1350
Processor
1355
1360
Tx Data Processor
Uplink Pilot
1365
Symbol Modulator
1370
TMTR
1375
RCVR
1380
Symbol Demod
Rx Data Processor
1385
1390
Processor

FIG. 13

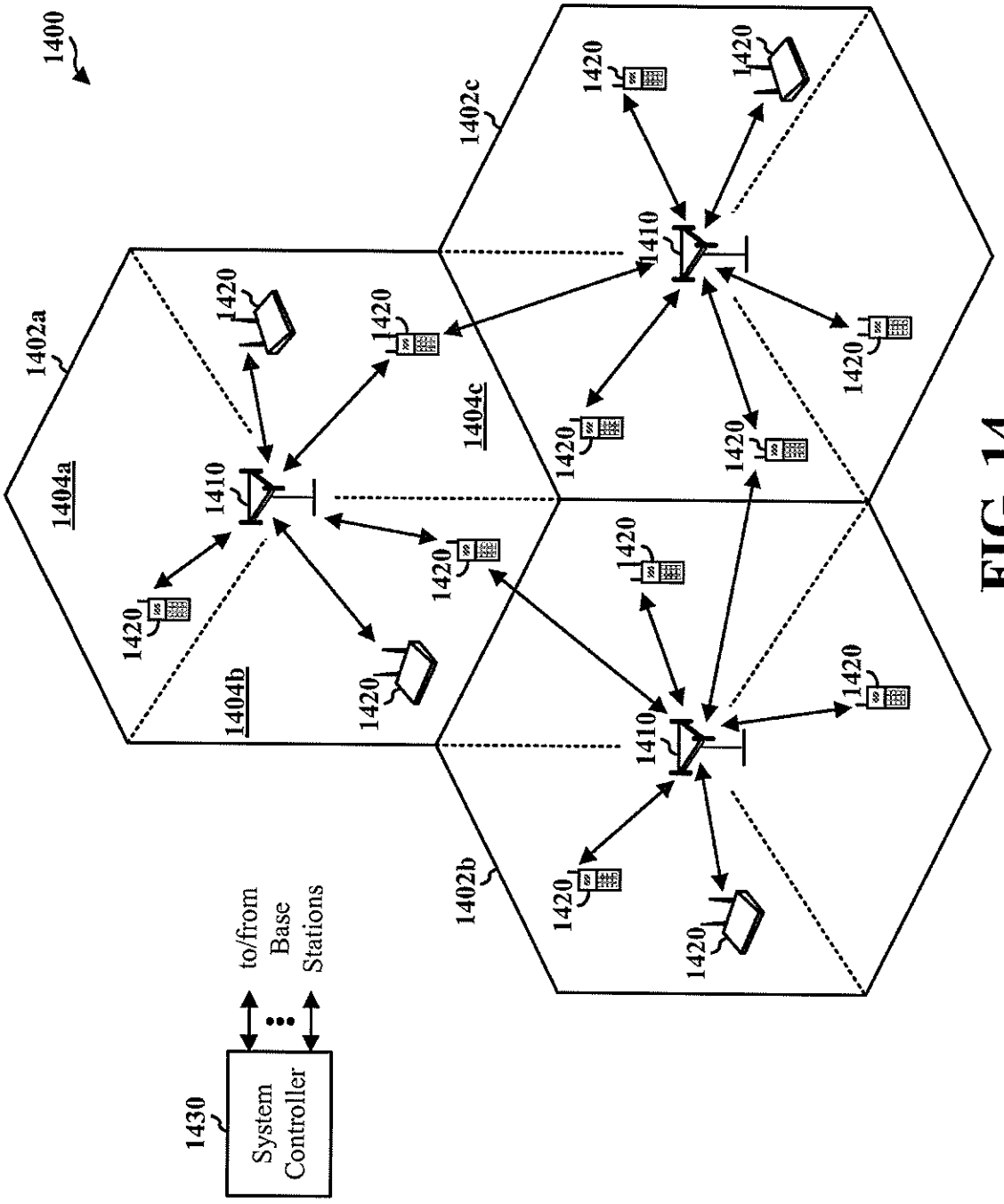

1400
1402a
1402b
1402c
1404a
1404b
1404c
1410
1420
1430
System Controller
to/from Base Stations

FIG. 14

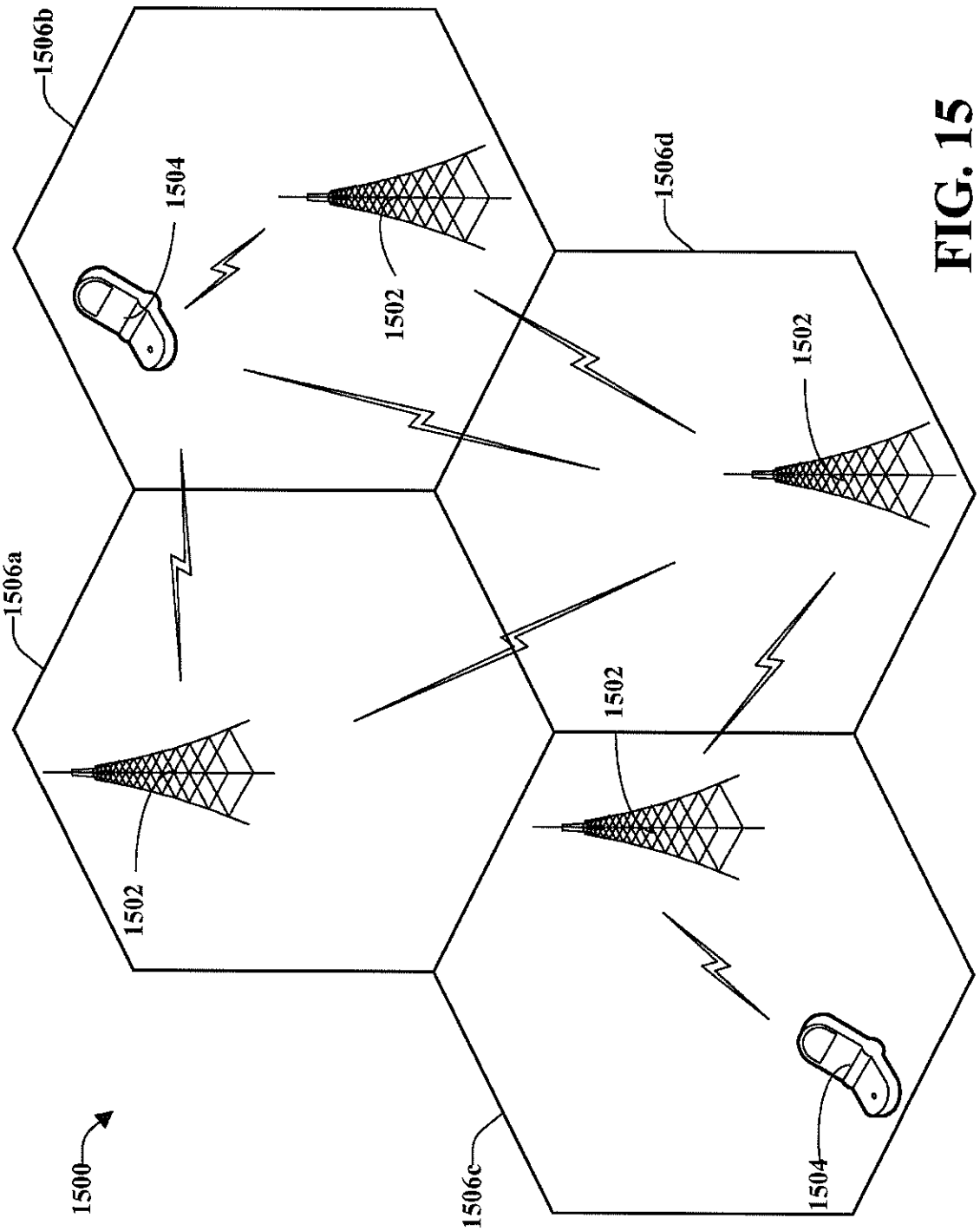


FIG. 15