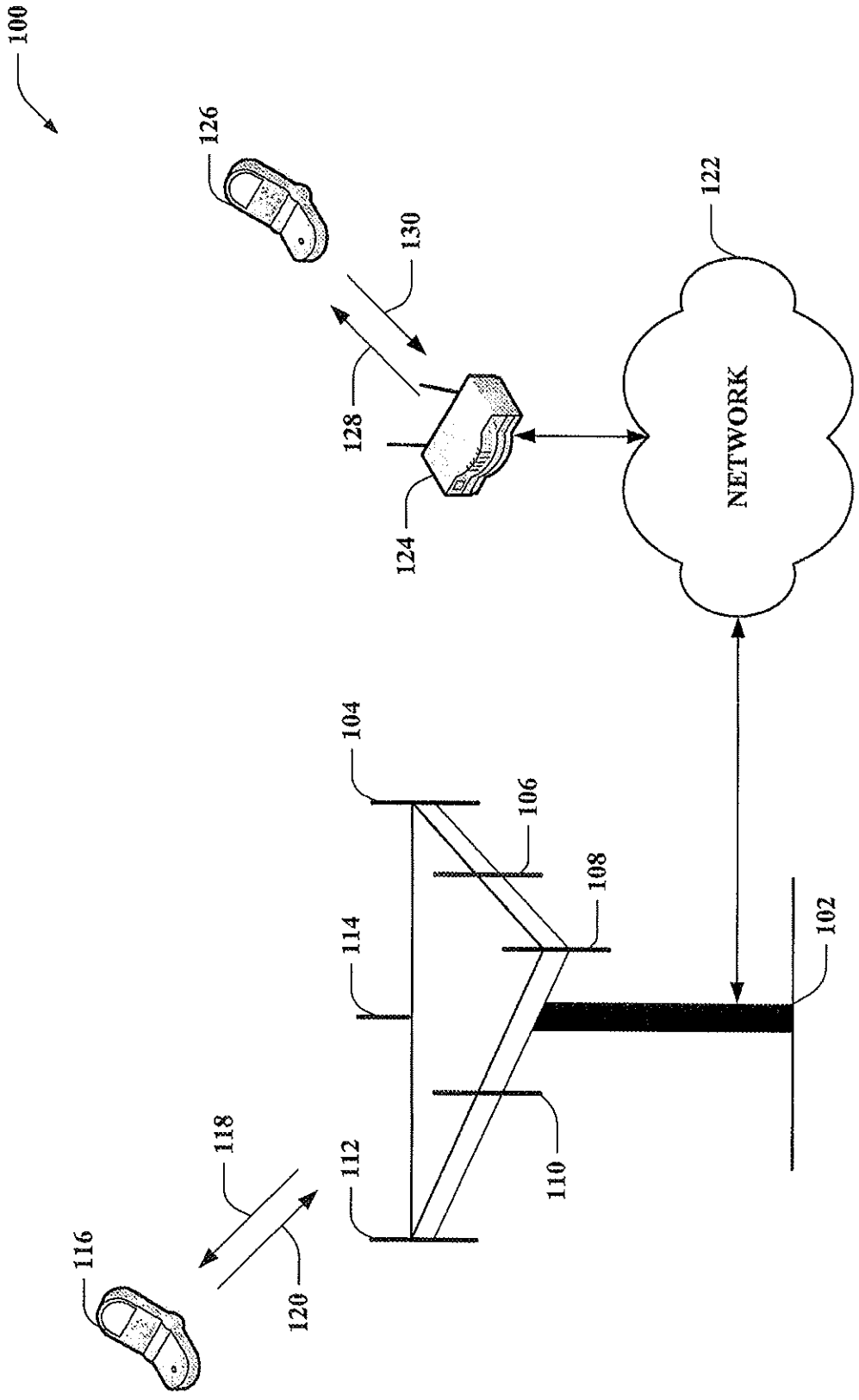

100
126
130
128
124
122
NETWORK
104
106
108
114
102
112
110
118
116
120

FIG. 1

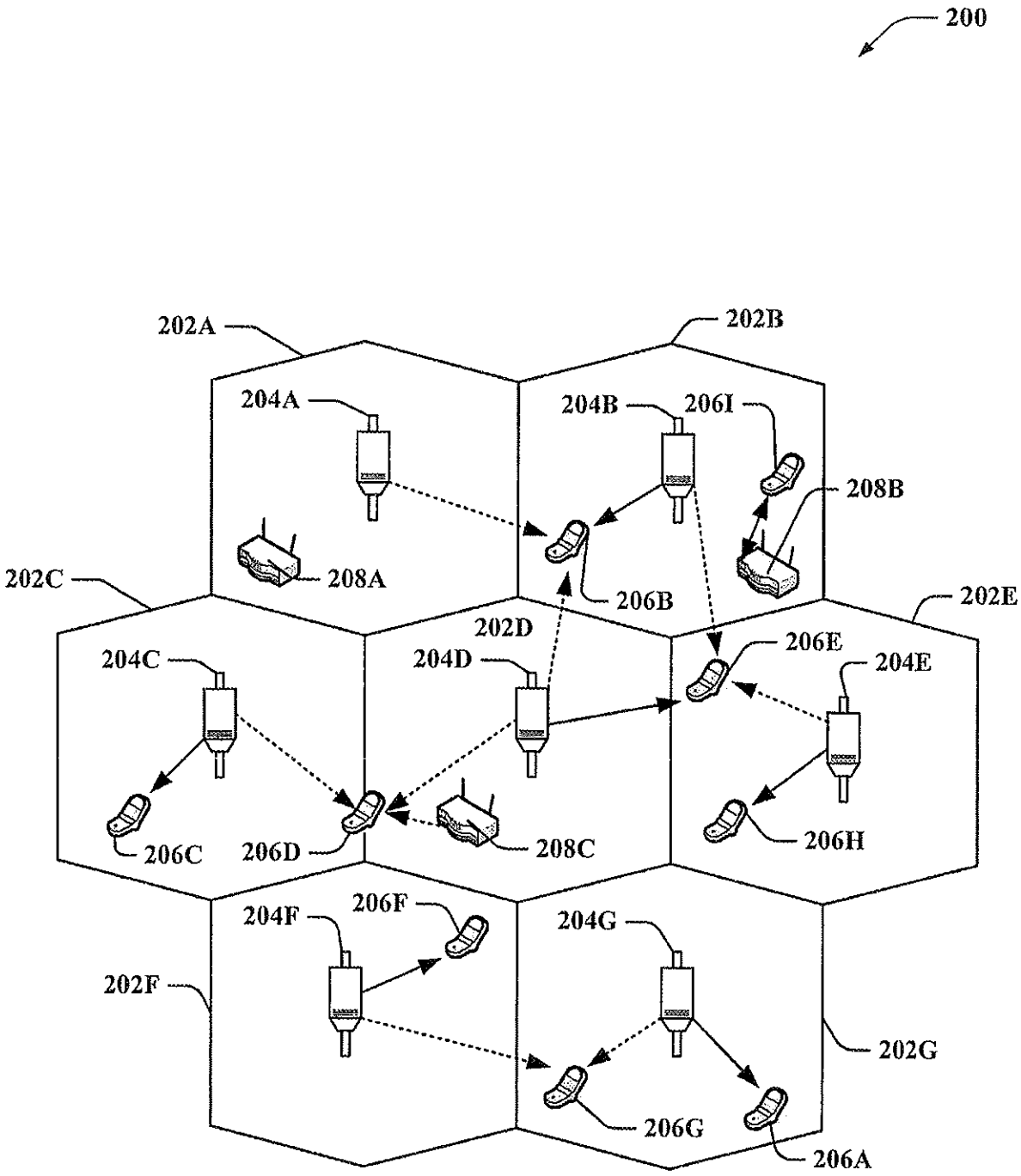

200
202A
202B
204A
204B
206I
208B
208A
206B
202C
202E
202D
204C
204D
206E
204E
206C
206D
208C
206H
204F
206F
204G
202F
202G
206G
206A

FIG. 2

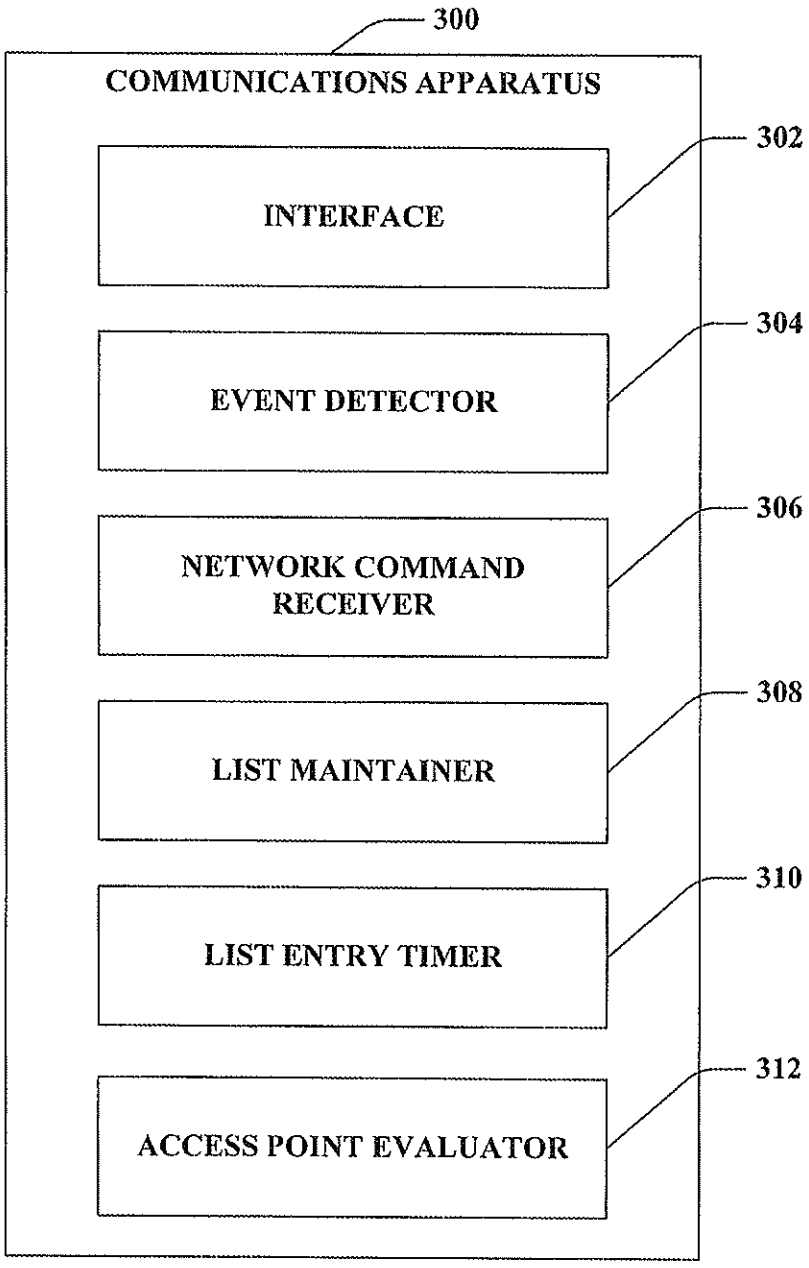

300
COMMUNICATIONS APPARATUS
INTERFACE
302
EVENT DETECTOR
304
NETWORK COMMAND RECEIVER
306
LIST MAINTAINER
308
LIST ENTRY TIMER
310
ACCESS POINT EVALUATOR
312

FIG. 3

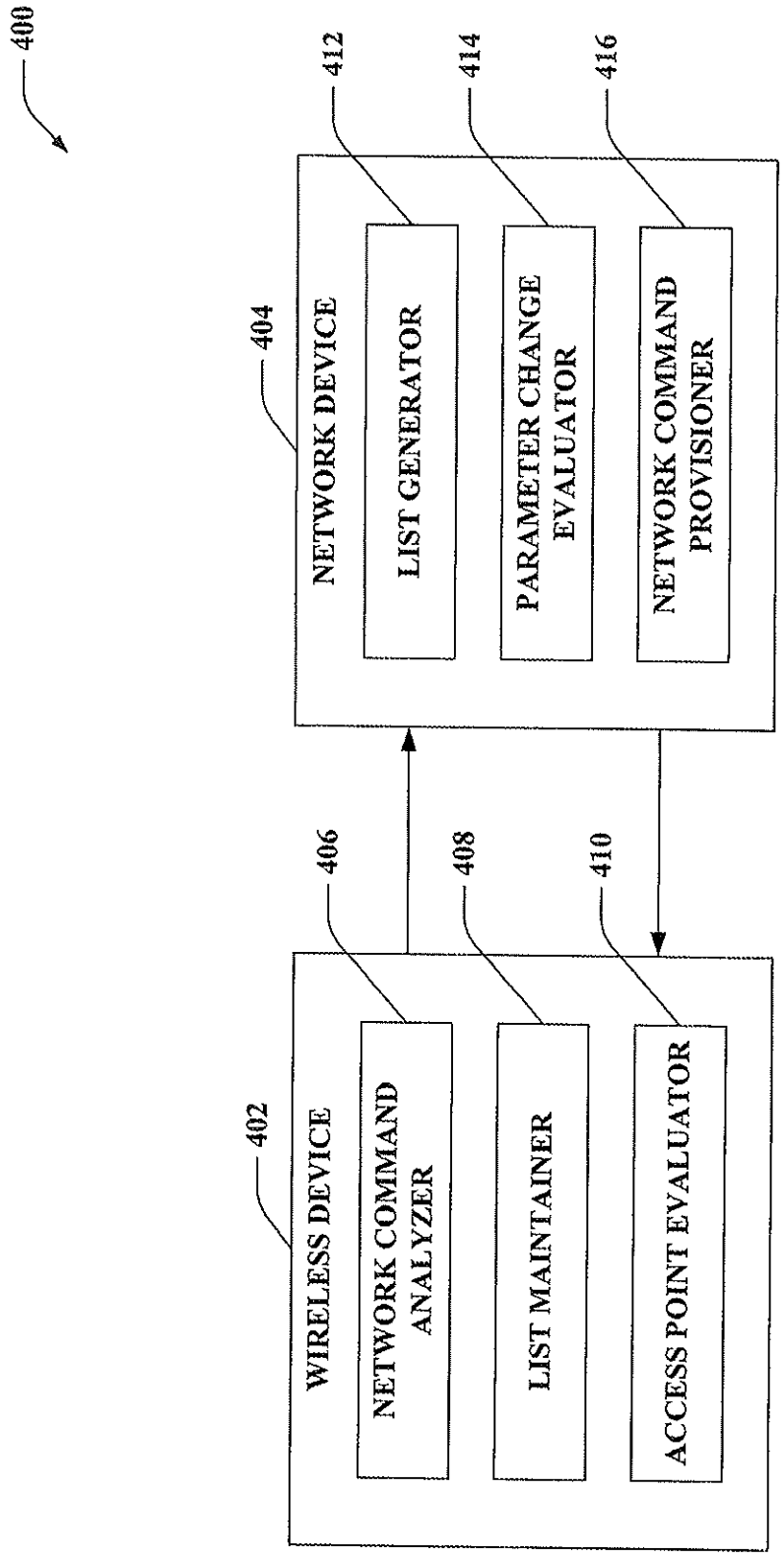

400
412
414
416
404
NETWORK DEVICE
LIST GENERATOR
PARAMETER CHANGE EVALUATOR
NETWORK COMMAND PROVISIONER
406
408
410
402
WIRELESS DEVICE
NETWORK COMMAND ANALYZER
LIST MAINTAINER
ACCESS POINT EVALUATOR

FIG. 4

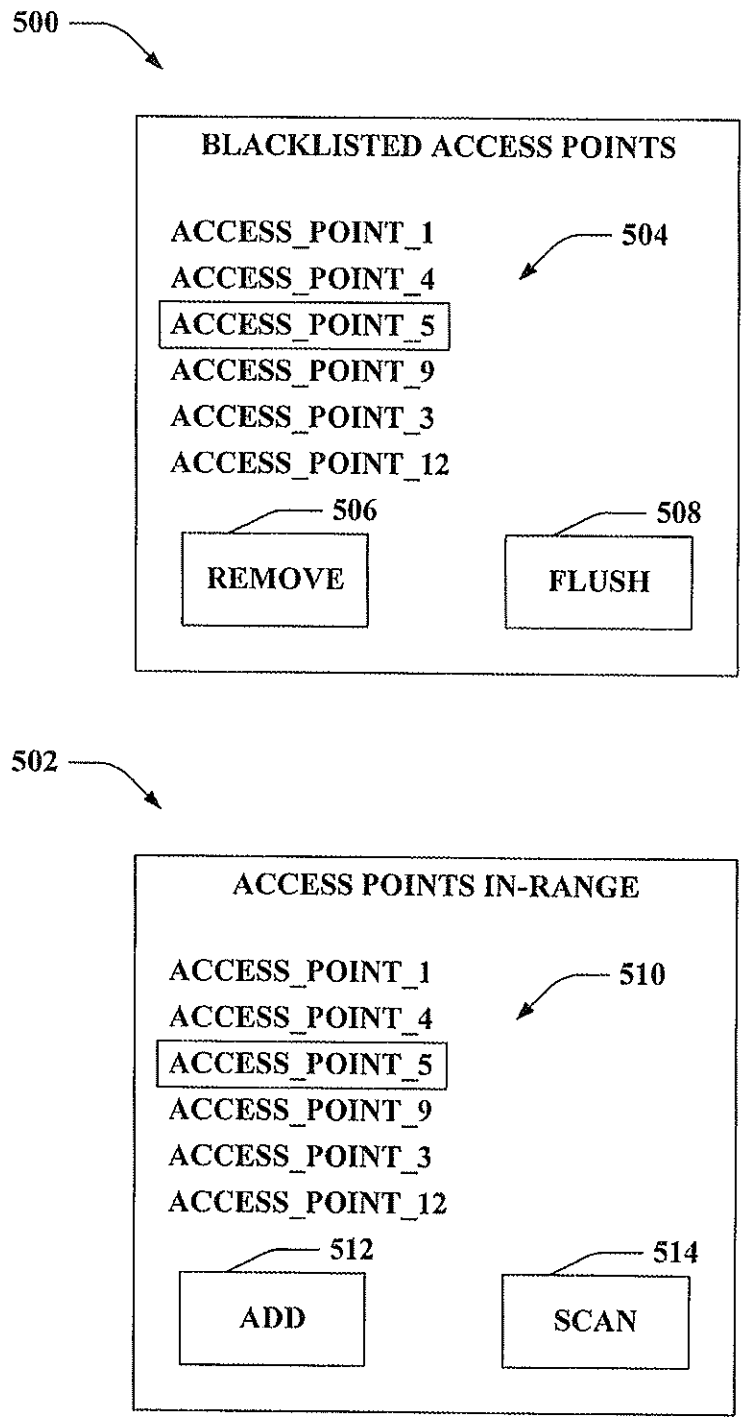

500
BLACKLISTED ACCESS POINTS
ACCESS_POINT_1
ACCESS_POINT_4
ACCESS_POINT_5
ACCESS_POINT_9
ACCESS_POINT_3
ACCESS_POINT_12
504
506
REMOVE
508
FLUSH
502
ACCESS POINTS IN-RANGE
ACCESS_POINT_1
ACCESS_POINT_4
ACCESS_POINT_5
ACCESS_POINT_9
ACCESS_POINT_3
ACCESS_POINT_12
510
512
ADD
514
SCAN

FIG. 5

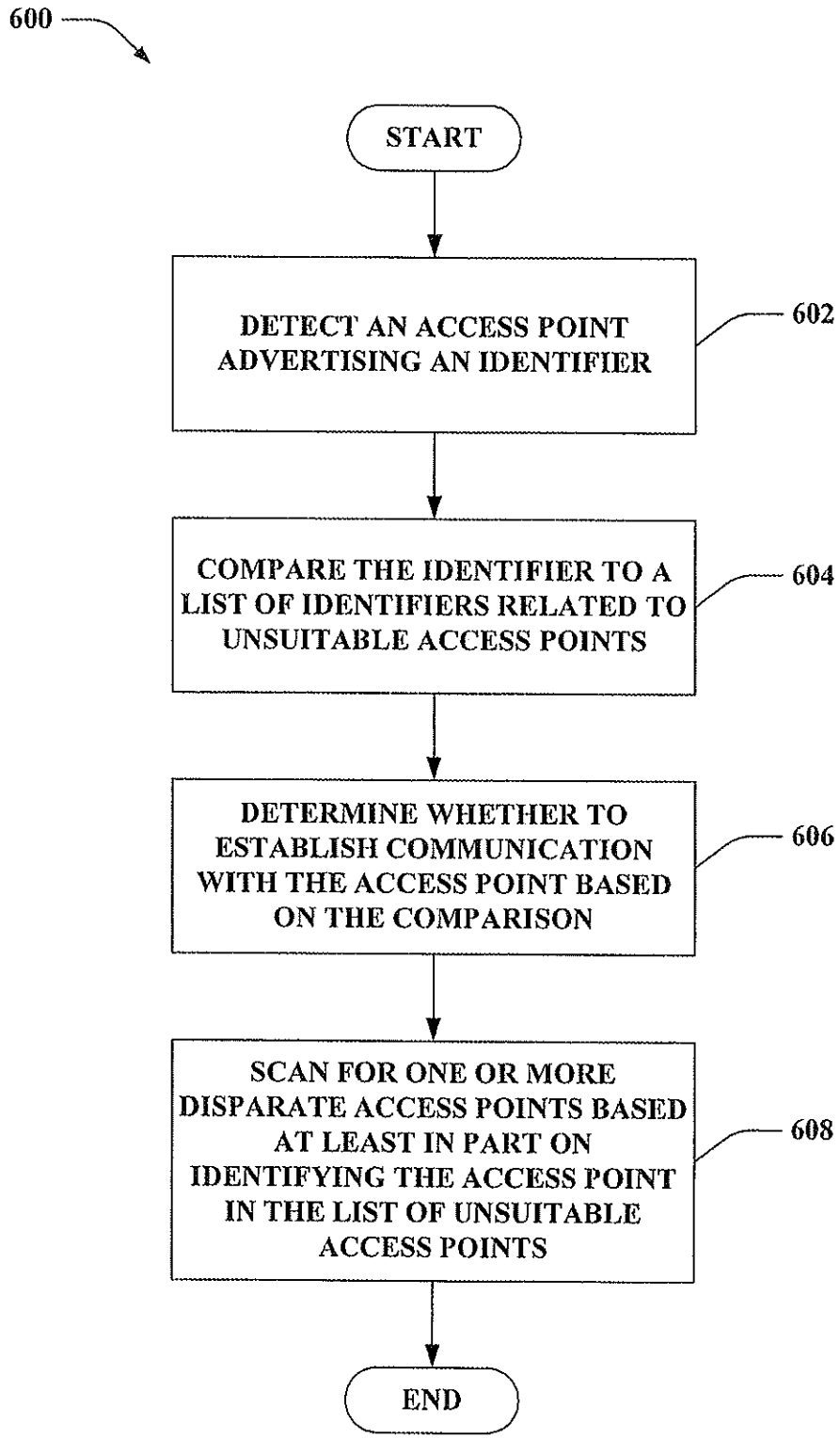

600
START
DETECT AN ACCESS POINT ADVERTISING AN IDENTIFIER
602
COMPARE THE IDENTIFIER TO A LIST OF IDENTIFIERS RELATED TO UNSUITABLE ACCESS POINTS
604
DETERMINE WHETHER TO ESTABLISH COMMUNICATION WITH THE ACCESS POINT BASED ON THE COMPARISON
606
SCAN FOR ONE OR MORE DISPARATE ACCESS POINTS BASED AT LEAST IN PART ON IDENTIFYING THE ACCESS POINT IN THE LIST OF UNSUITABLE ACCESS POINTS
608
END

FIG. 6

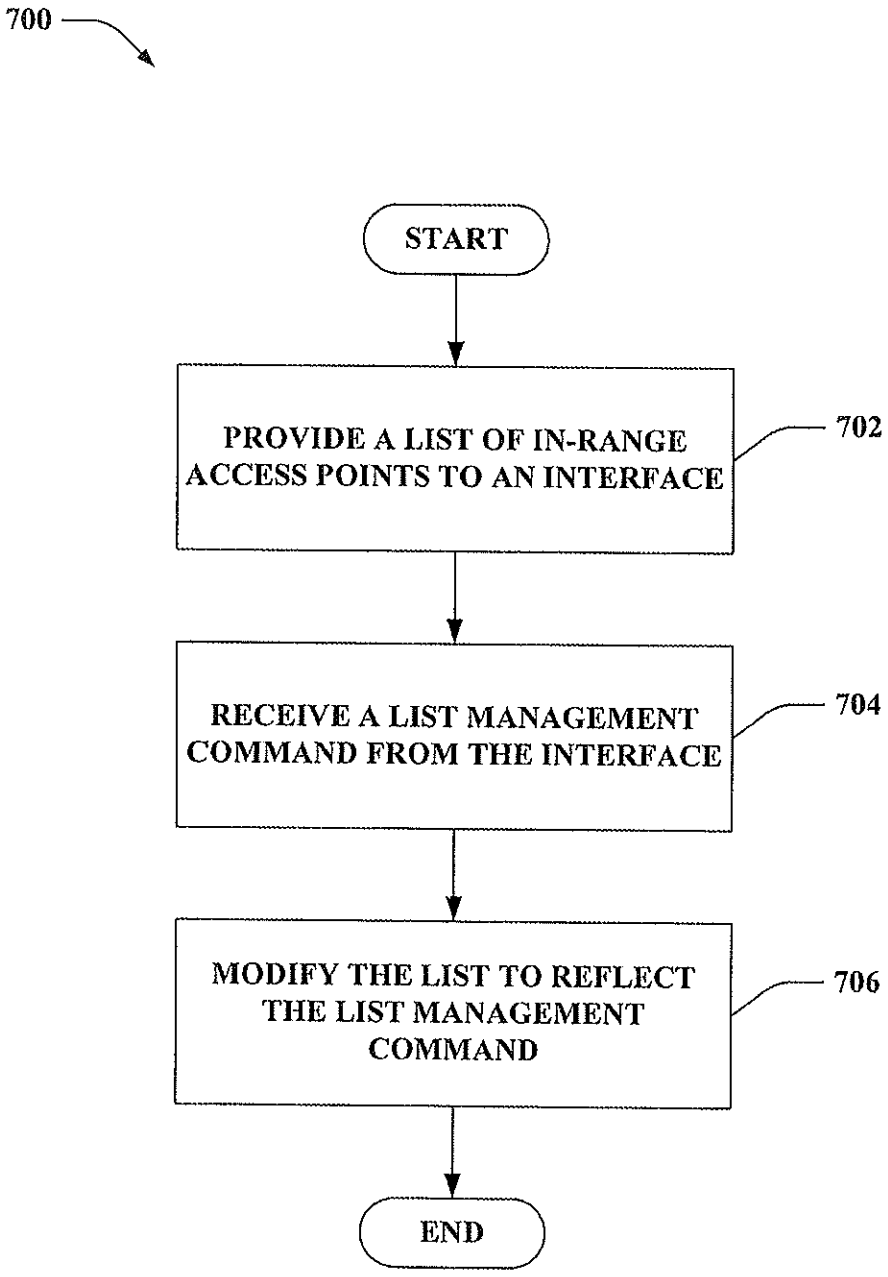

700
START
PROVIDE A LIST OF IN-RANGE ACCESS POINTS TO AN INTERFACE
702
RECEIVE A LIST MANAGEMENT COMMAND FROM THE INTERFACE
704
MODIFY THE LIST TO REFLECT THE LIST MANAGEMENT COMMAND
706
END

FIG. 7

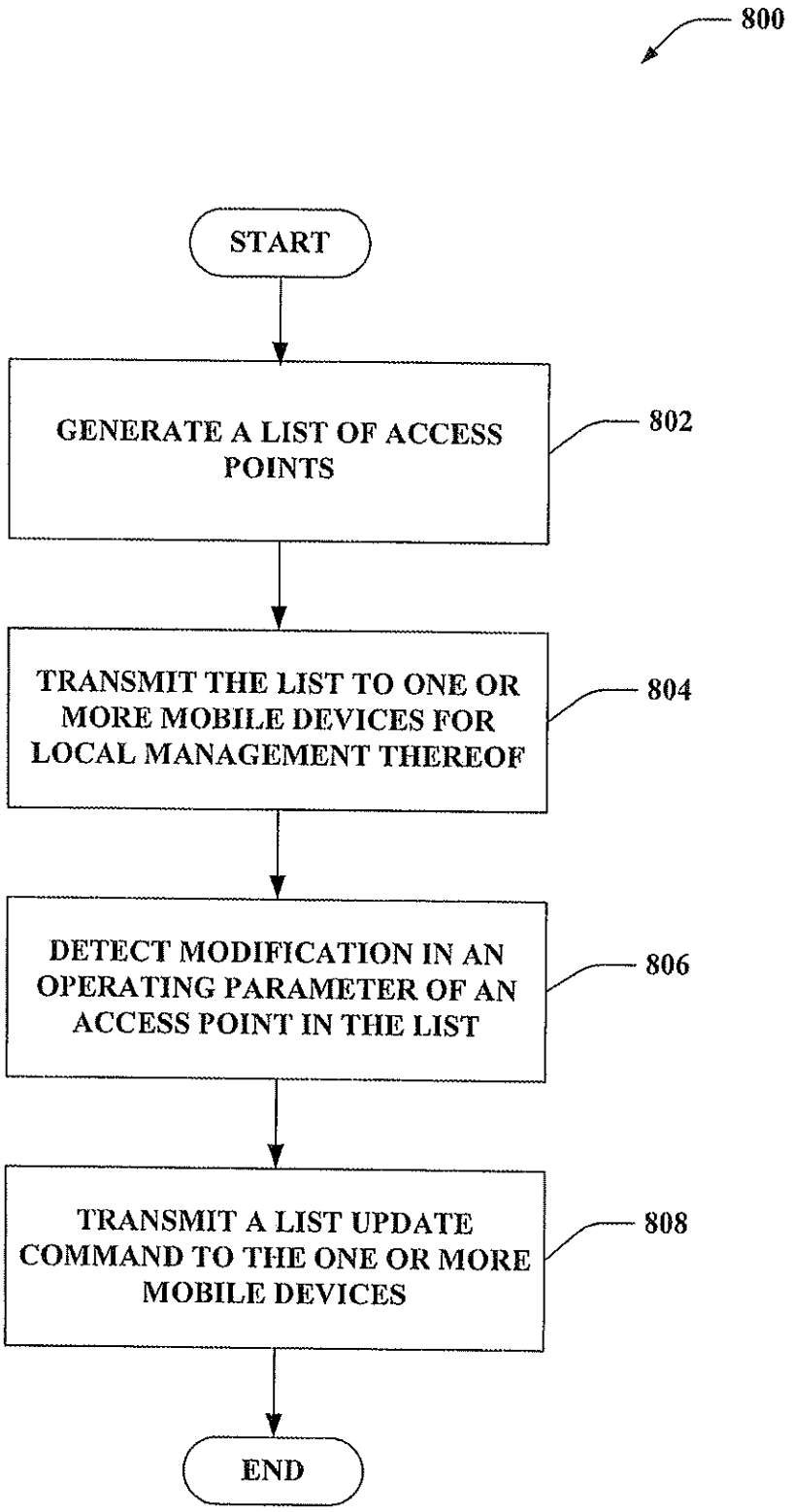

800
START
GENERATE A LIST OF ACCESS POINTS
802
TRANSMIT THE LIST TO ONE OR MORE MOBILE DEVICES FOR LOCAL MANAGEMENT THEREOF
804
DETECT MODIFICATION IN AN OPERATING PARAMETER OF AN ACCESS POINT IN THE LIST
806
TRANSMIT A LIST UPDATE COMMAND TO THE ONE OR MORE MOBILE DEVICES
808
END

FIG. 8

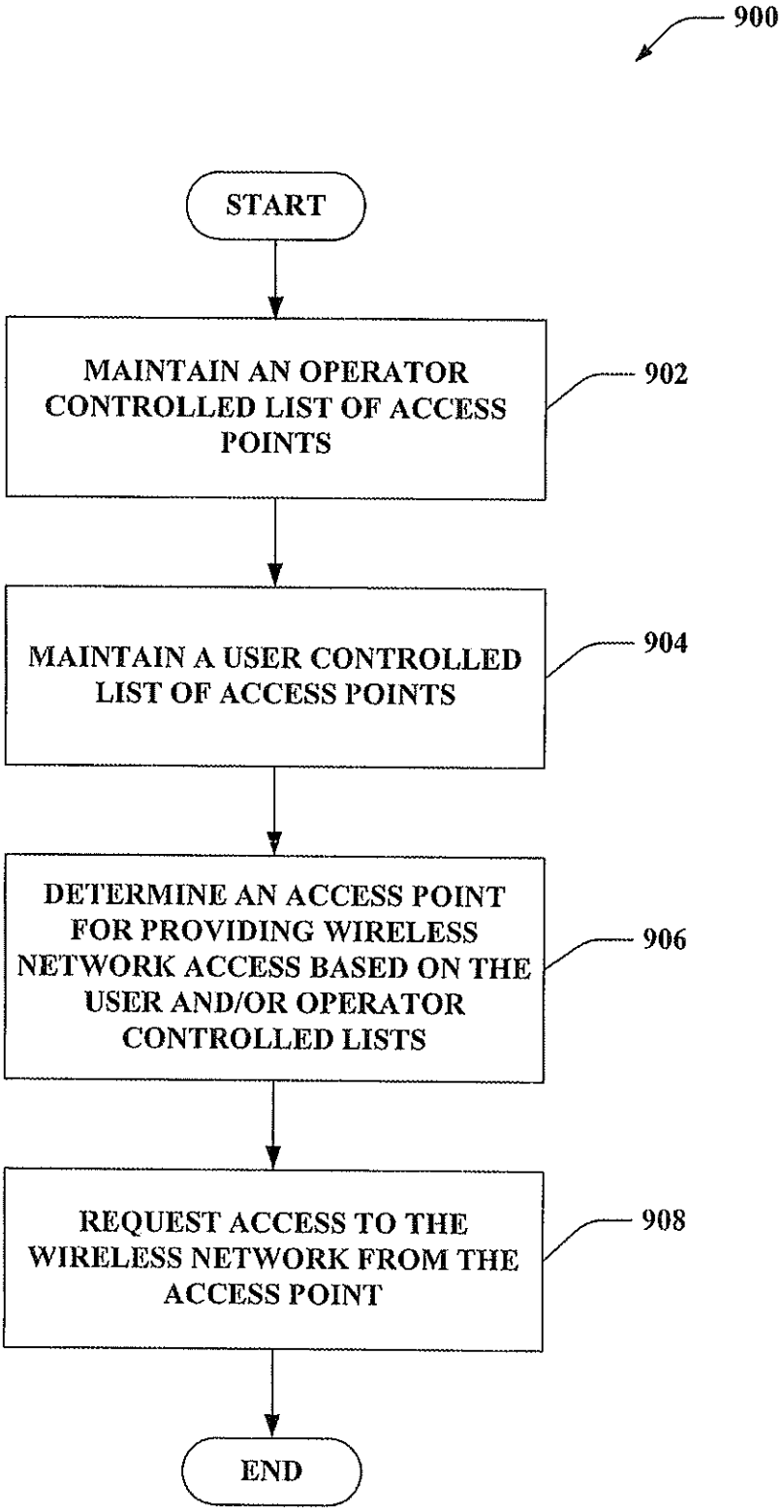

900
START
MAINTAIN AN OPERATOR CONTROLLED LIST OF ACCESS POINTS
902
MAINTAIN A USER CONTROLLED LIST OF ACCESS POINTS
904
DETERMINE AN ACCESS POINT FOR PROVIDING WIRELESS NETWORK ACCESS BASED ON THE USER AND/OR OPERATOR CONTROLLED LISTS
906
REQUEST ACCESS TO THE WIRELESS NETWORK FROM THE ACCESS POINT
908
END

FIG. 9

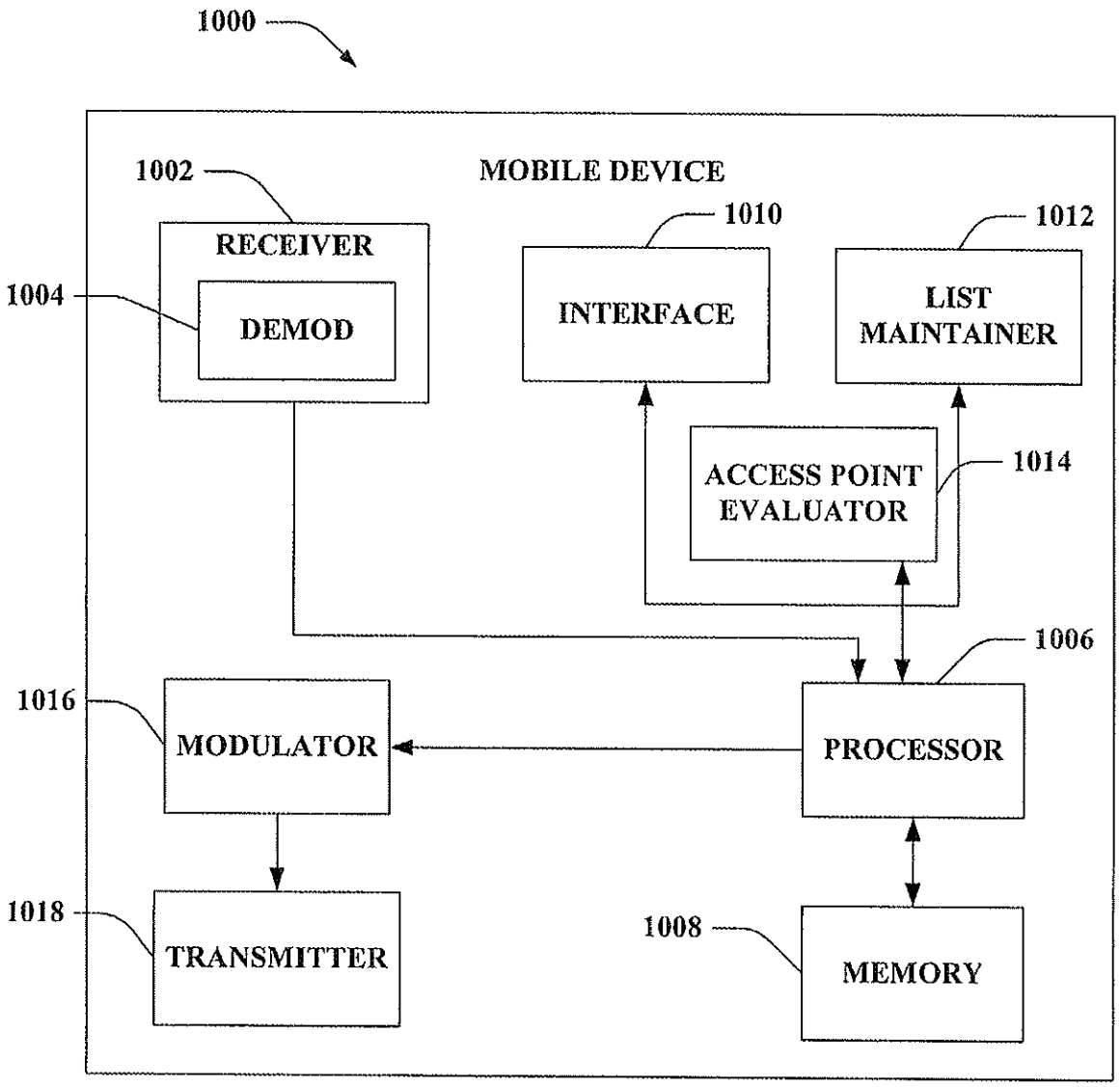

1000
MOBILE DEVICE
1002
RECEIVER
1004
DEMOD
1010
INTERFACE
1012
LIST MAINTAINER
ACCESS POINT EVALUATOR
1014
1006
1016
MODULATOR
PROCESSOR
1018
TRANSMITTER
1008
MEMORY

FIG. 10

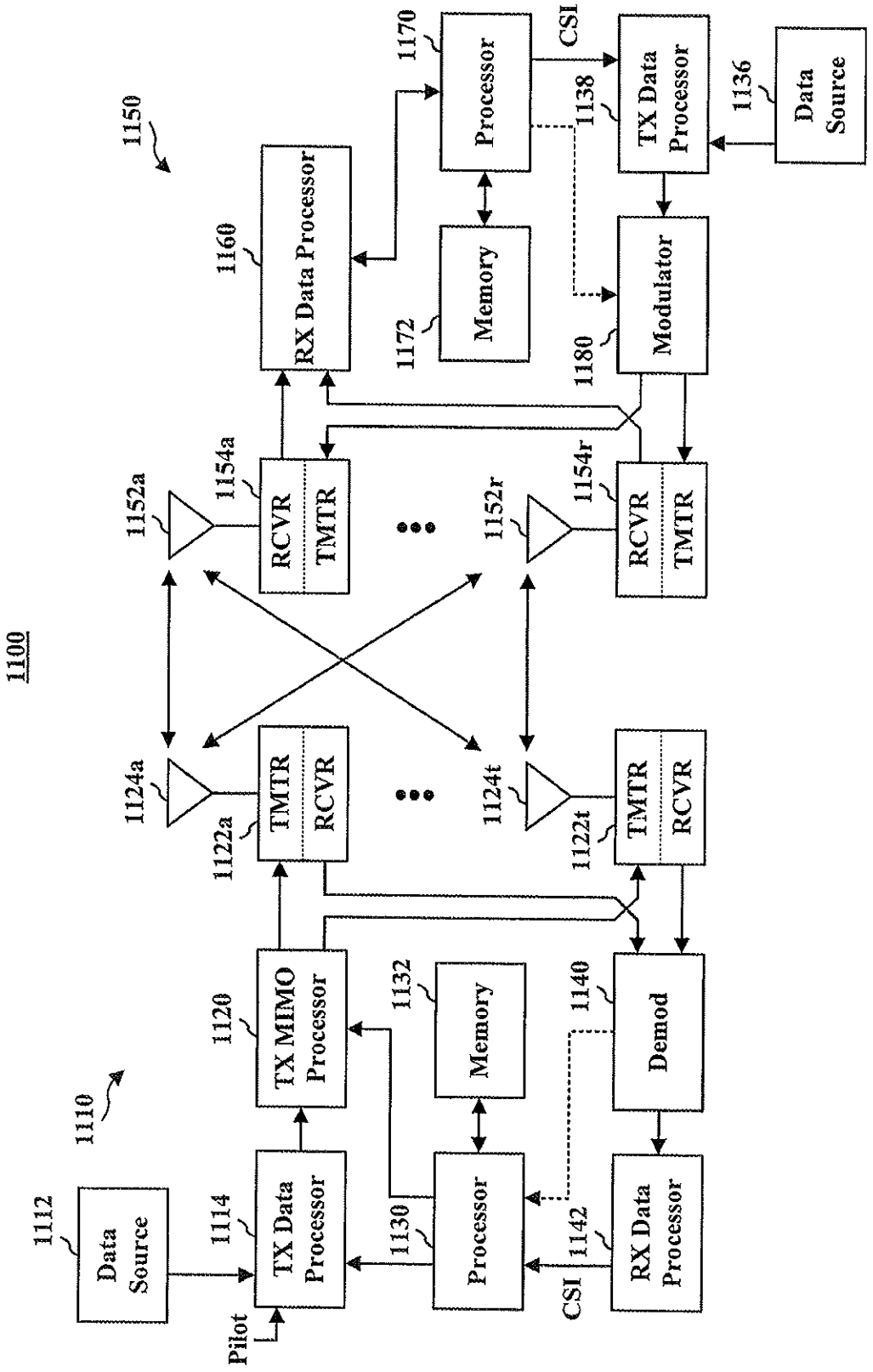
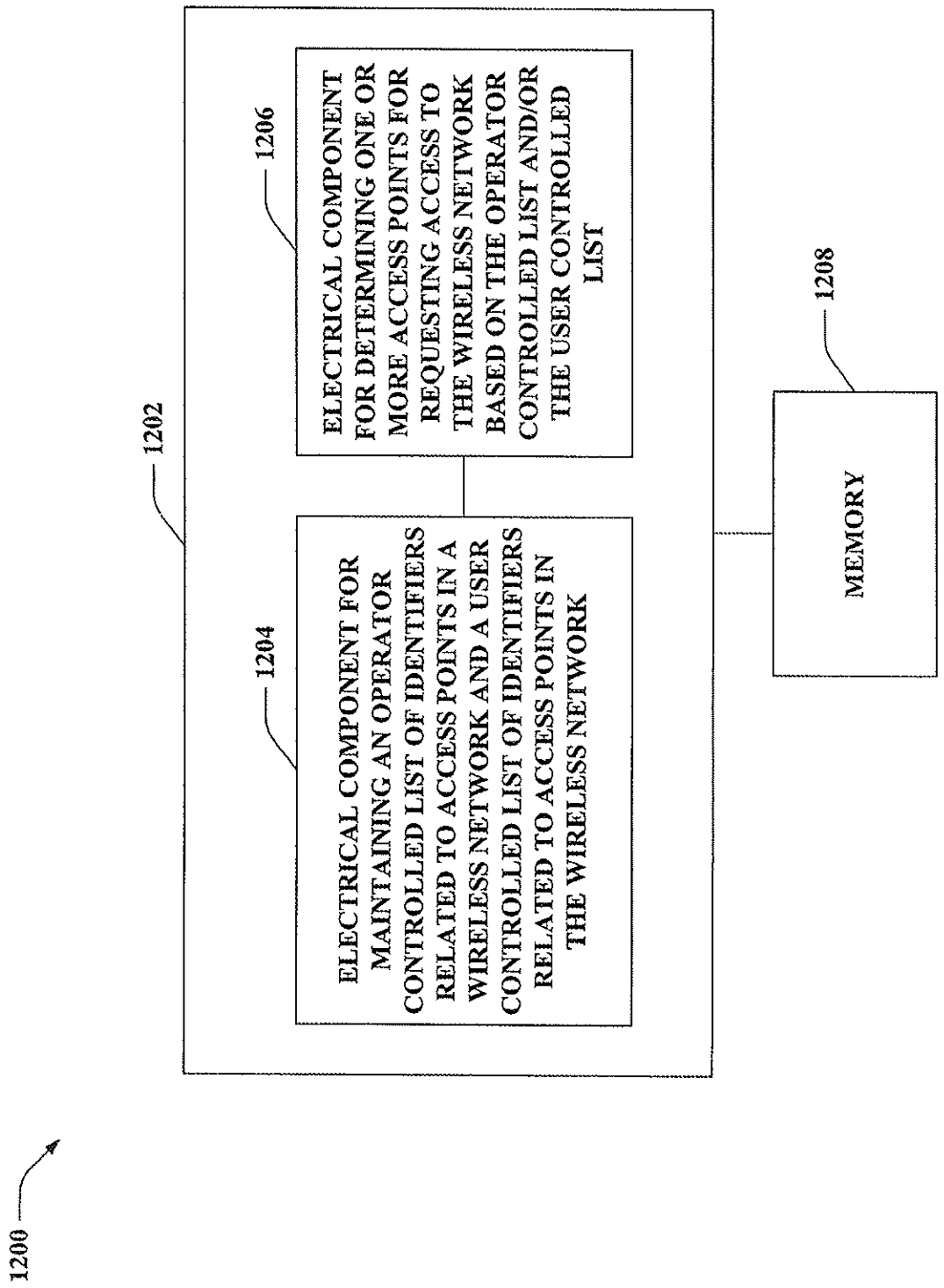

1100
1110
1112
Data Source
1114
TX Data Processor
Pilot
1120
TX MIMO Processor
1122a
TMTR
RCVR
1124a
1130
Processor
1132
Memory
1140
Demod
1142
RX Data Processor
CSI
1150
1152a
1154a
RCVR
TMTR
1152r
1154r
RCVR
TMTR
1160
RX Data Processor
1170
Processor
CSI
1172
Memory
1180
Modulator
1136
Data Source
1138
TX Data Processor

FIG. 11

FIG. 12


1200
1202
1204
ELECTRICAL COMPONENT FOR MAINTAINING AN OPERATOR CONTROLLED LIST OF IDENTIFIERS RELATED TO ACCESS POINTS IN A WIRELESS NETWORK AND A USER CONTROLLED LIST OF IDENTIFIERS RELATED TO ACCESS POINTS IN THE WIRELESS NETWORK
1206
ELECTRICAL COMPONENT FOR DETERMINING ONE OR MORE ACCESS POINTS FOR REQUESTING ACCESS TO THE WIRELESS NETWORK BASED ON THE OPERATOR CONTROLLED LIST AND/OR THE USER CONTROLLED LIST
1208
MEMORY

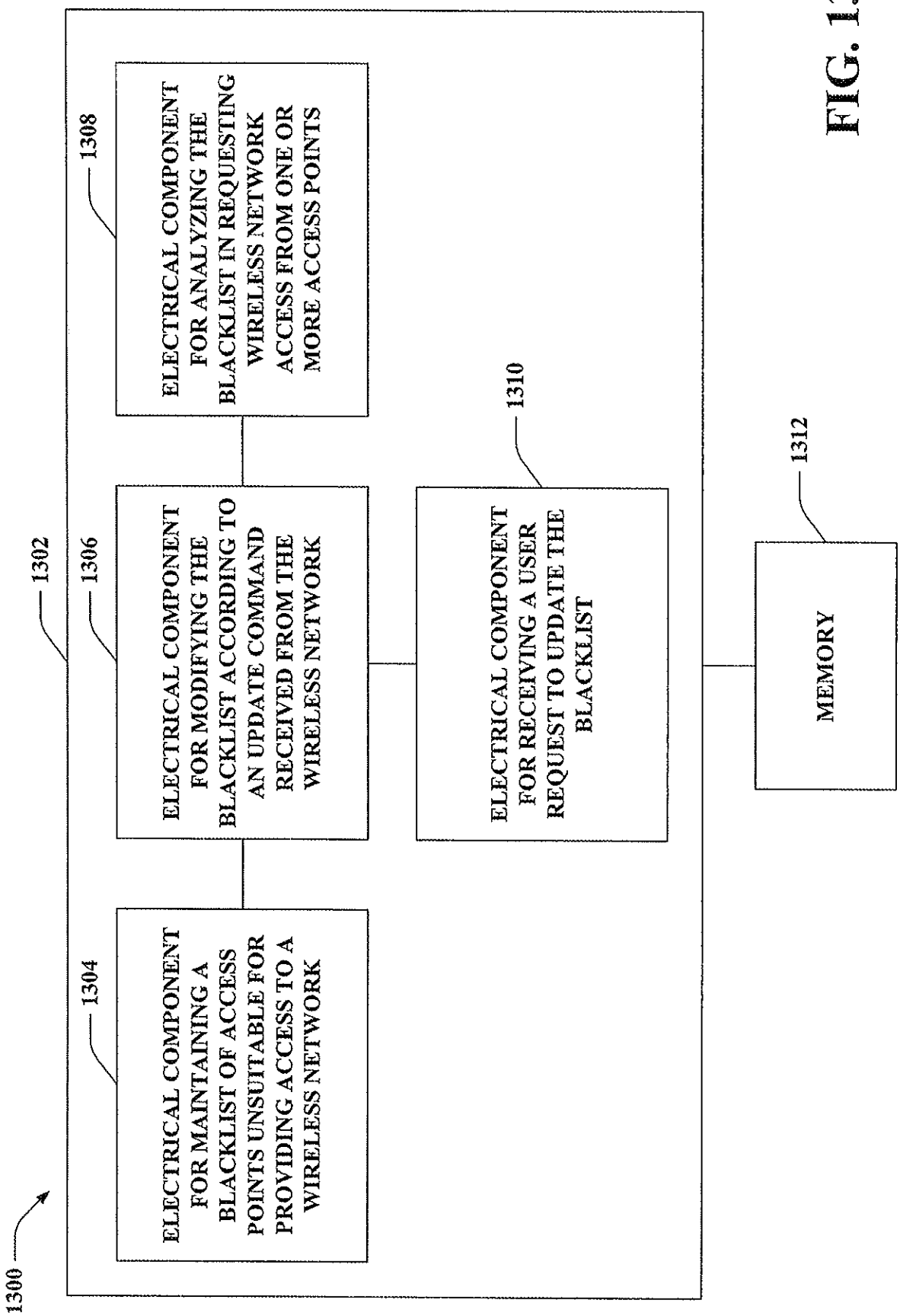

1300
1302
1304
ELECTRICAL COMPONENT FOR MAINTAINING A BLACKLIST OF ACCESS POINTS UNSUITABLE FOR PROVIDING ACCESS TO A WIRELESS NETWORK
1306
ELECTRICAL COMPONENT FOR MODIFYING THE BLACKLIST ACCORDING TO AN UPDATE COMMAND RECEIVED FROM THE WIRELESS NETWORK
1308
ELECTRICAL COMPONENT FOR ANALYZING THE BLACKLIST IN REQUESTING WIRELESS NETWORK ACCESS FROM ONE OR MORE ACCESS POINTS
1310
ELECTRICAL COMPONENT FOR RECEIVING A USER REQUEST TO UPDATE THE BLACKLIST
1312
MEMORY

FIG. 13

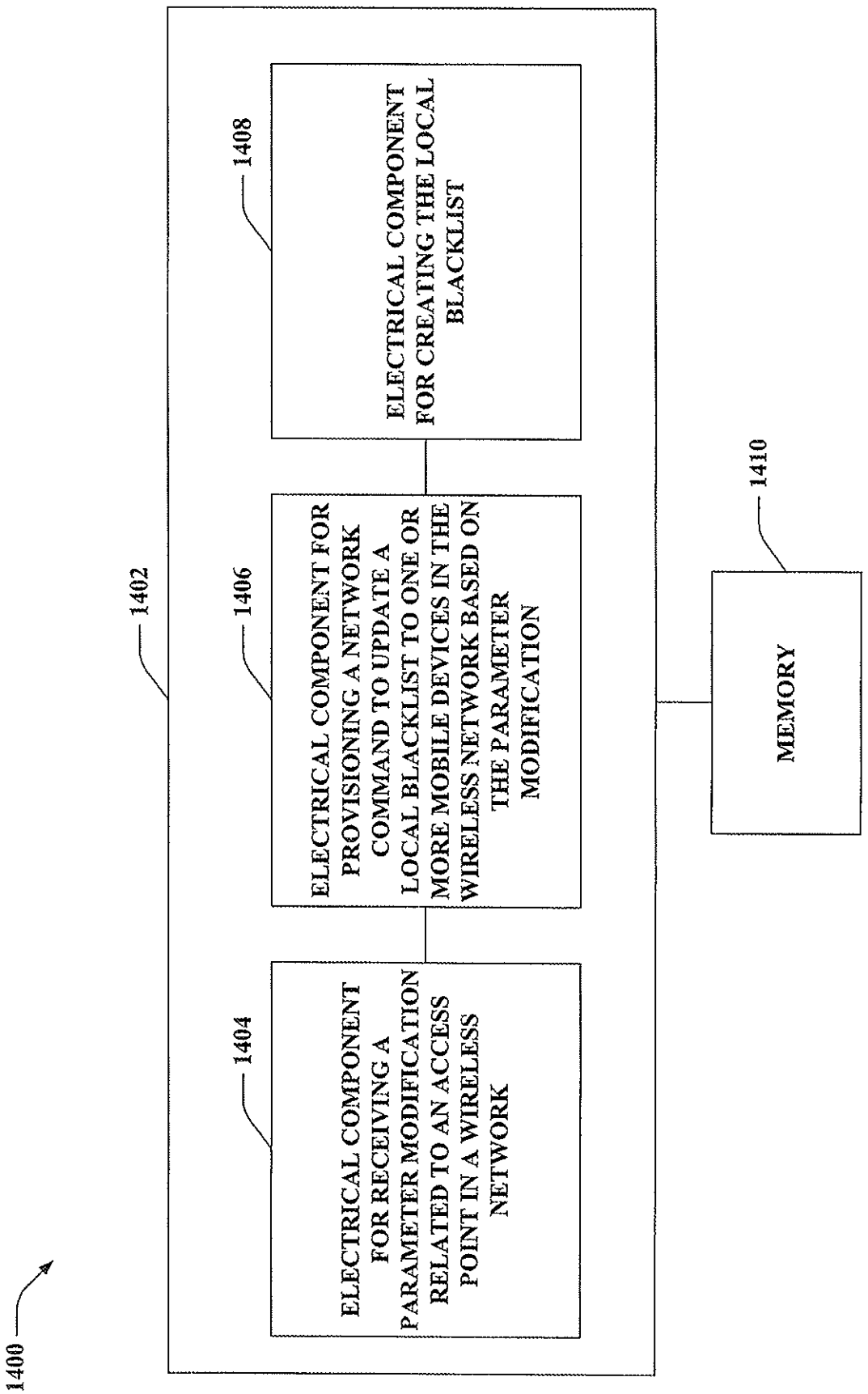

1400
1402
1404
ELECTRICAL COMPONENT FOR RECEIVING A PARAMETER MODIFICATION RELATED TO AN ACCESS POINT IN A WIRELESS NETWORK
1406
ELECTRICAL COMPONENT FOR PROVISIONING A NETWORK COMMAND TO UPDATE A LOCAL BLACKLIST TO ONE OR MORE MOBILE DEVICES IN THE WIRELESS NETWORK BASED ON THE PARAMETER MODIFICATION
1408
ELECTRICAL COMPONENT FOR CREATING THE LOCAL BLACKLIST
1410
MEMORY

FIG. 14

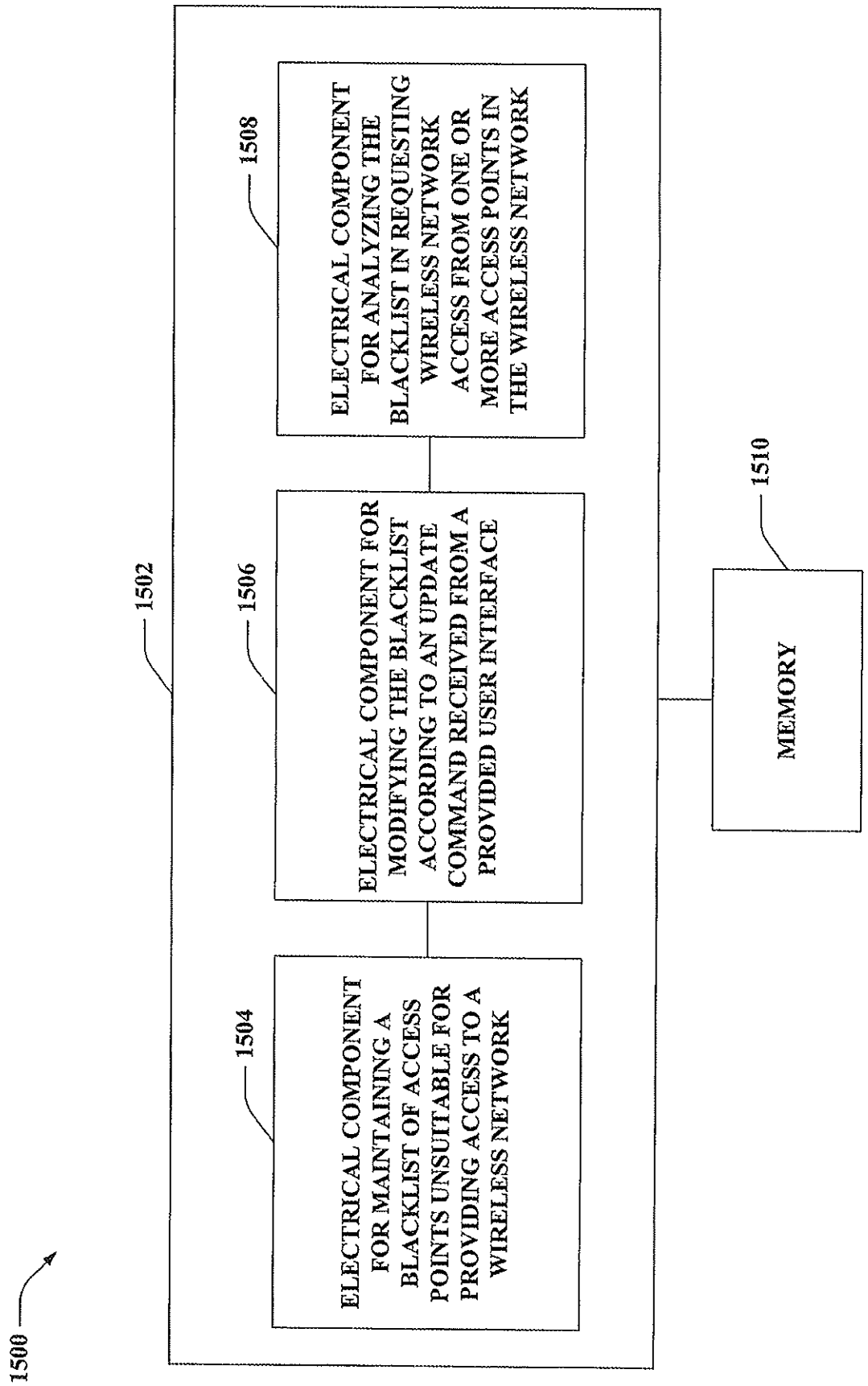

1500
1502
1504
ELECTRICAL COMPONENT FOR MAINTAINING A BLACKLIST OF ACCESS POINTS UNSUITABLE FOR PROVIDING ACCESS TO A WIRELESS NETWORK
1506
ELECTRICAL COMPONENT FOR MODIFYING THE BLACKLIST ACCORDING TO AN UPDATE COMMAND RECEIVED FROM A PROVIDED USER INTERFACE
1508
ELECTRICAL COMPONENT FOR ANALYZING THE BLACKLIST IN REQUESTING WIRELESS NETWORK ACCESS FROM ONE OR MORE ACCESS POINTS IN THE WIRELESS NETWORK
1510
MEMORY

FIG. 15

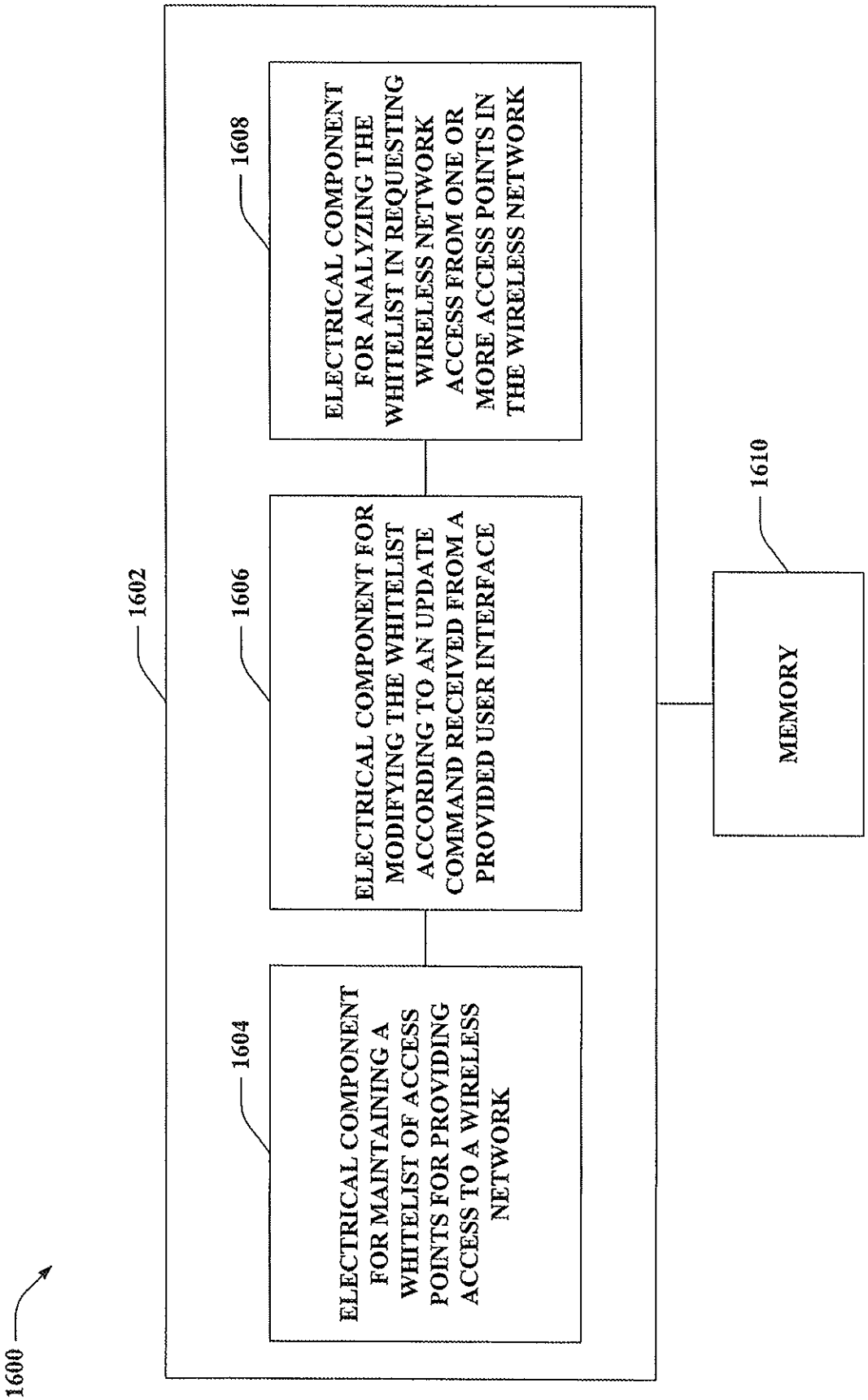

1600
1602
1604
ELECTRICAL COMPONENT FOR MAINTAINING A WHITELIST OF ACCESS POINTS FOR PROVIDING ACCESS TO A WIRELESS NETWORK
1606
ELECTRICAL COMPONENT FOR MODIFYING THE WHITELIST ACCORDING TO AN UPDATE COMMAND RECEIVED FROM A PROVIDED USER INTERFACE
1608
ELECTRICAL COMPONENT FOR ANALYZING THE WHITELIST IN REQUESTING WIRELESS NETWORK ACCESS FROM ONE OR MORE ACCESS POINTS IN THE WIRELESS NETWORK
1610
MEMORY

FIG. 16

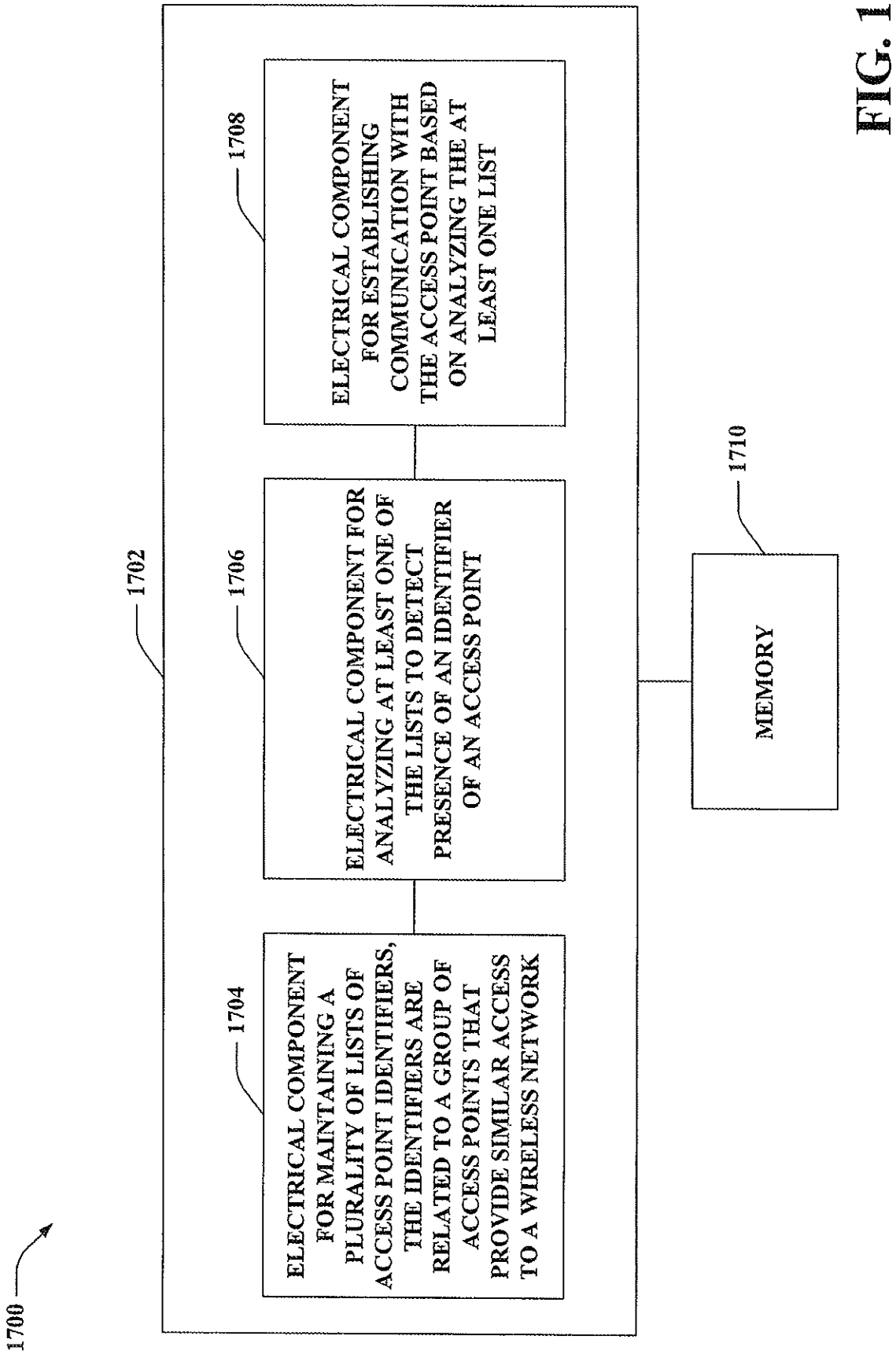

1700
1702
1704
ELECTRICAL COMPONENT FOR MAINTAINING A PLURALITY OF LISTS OF ACCESS POINT IDENTIFIERS, THE IDENTIFIERS ARE RELATED TO A GROUP OF ACCESS POINTS THAT PROVIDE SIMILAR ACCESS TO A WIRELESS NETWORK
1706
ELECTRICAL COMPONENT FOR ANALYZING AT LEAST ONE OF THE LISTS TO DETECT PRESENCE OF AN IDENTIFIER OF AN ACCESS POINT
1708
ELECTRICAL COMPONENT FOR ESTABLISHING COMMUNICATION WITH THE ACCESS POINT BASED ON ANALYZING THE AT LEAST ONE LIST
1710
MEMORY

FIG. 17

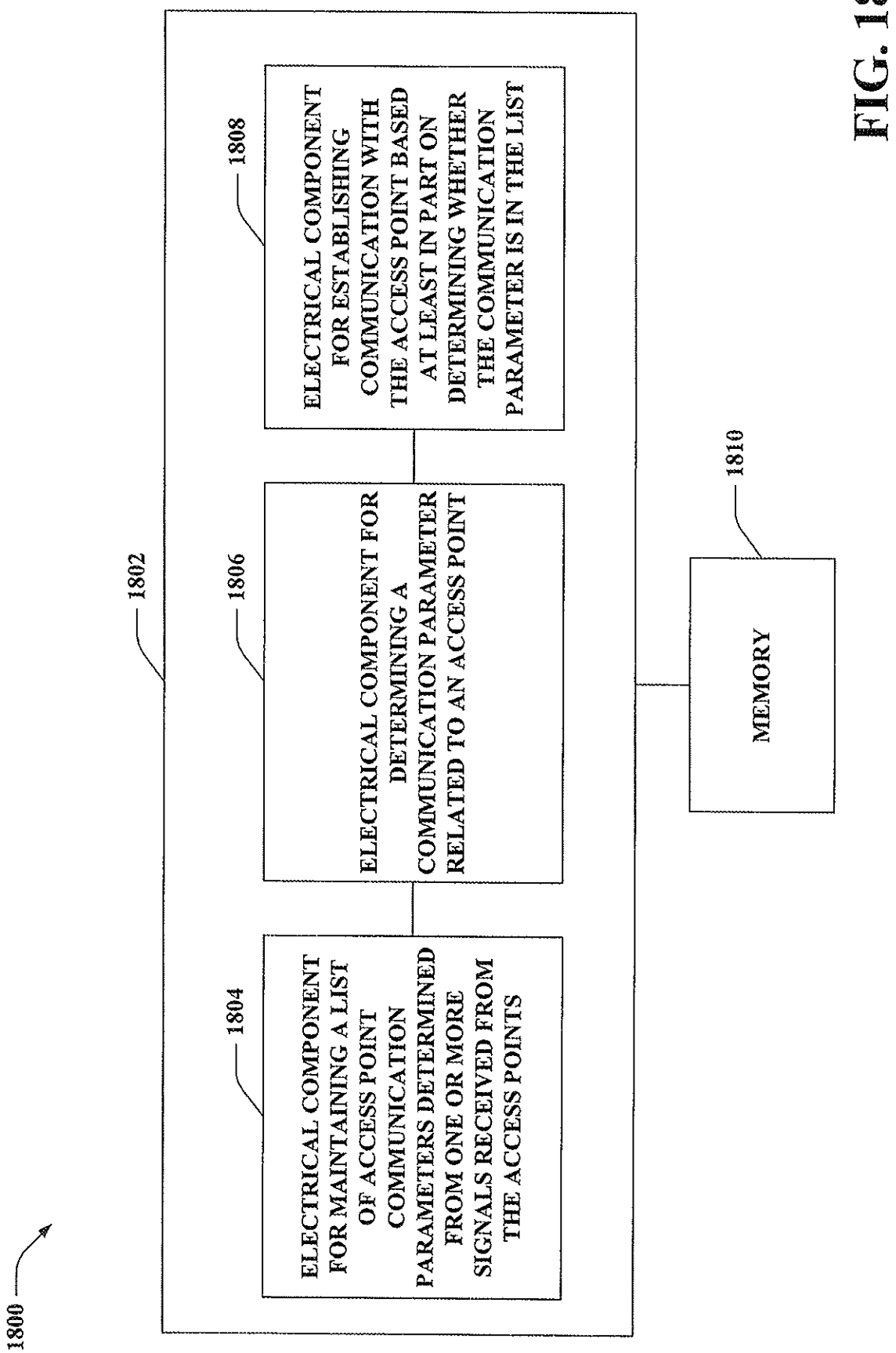

1800
1802
1804
ELECTRICAL COMPONENT FOR MAINTAINING A LIST OF ACCESS POINT COMMUNICATION PARAMETERS DETERMINED FROM ONE OR MORE SIGNALS RECEIVED FROM THE ACCESS POINTS
1806
ELECTRICAL COMPONENT FOR DETERMINING A COMMUNICATION PARAMETER RELATED TO AN ACCESS POINT
1808
ELECTRICAL COMPONENT FOR ESTABLISHING COMMUNICATION WITH THE ACCESS POINT BASED AT LEAST IN PART ON DETERMINING WHETHER THE COMMUNICATION PARAMETER IS IN THE LIST
1810
MEMORY

FIG. 18

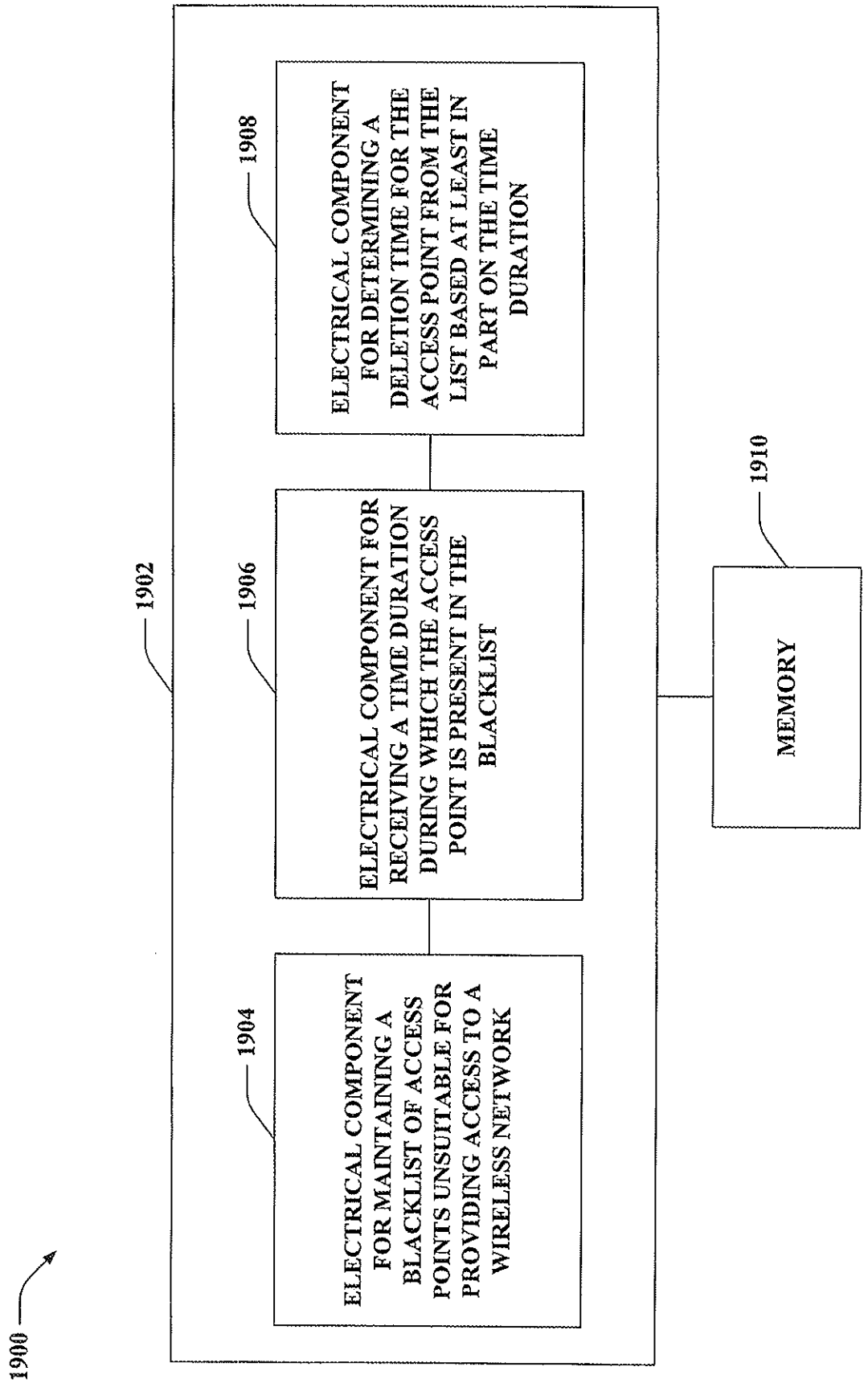

1900
1902
1904
ELECTRICAL COMPONENT FOR MAINTAINING A BLACKLIST OF ACCESS POINTS UNSUITABLE FOR PROVIDING ACCESS TO A WIRELESS NETWORK
1906
ELECTRICAL COMPONENT FOR RECEIVING A TIME DURATION DURING WHICH THE ACCESS POINT IS PRESENT IN THE BLACKLIST
1908
ELECTRICAL COMPONENT FOR DETERMINING A DELETION TIME FOR THE ACCESS POINT FROM THE LIST BASED AT LEAST IN PART ON THE TIME DURATION
1910
MEMORY

FIG. 19