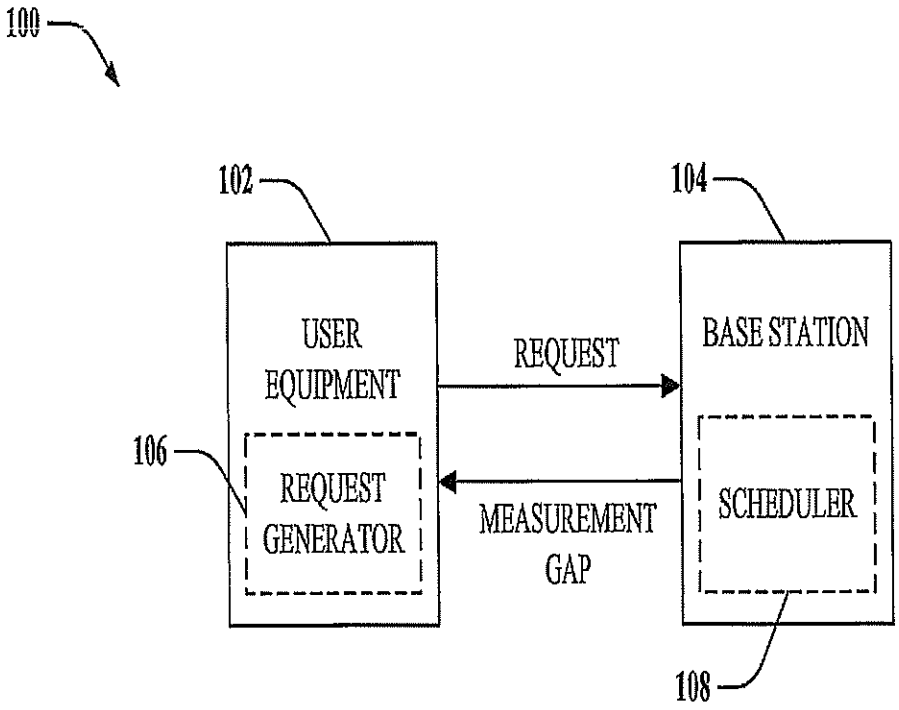

100
102
104
USER EQUIPMENT
REQUEST
BASE STATION
106
REQUEST GENERATOR
MEASUREMENT GAP
SCHEDULER
108

FIG. 1

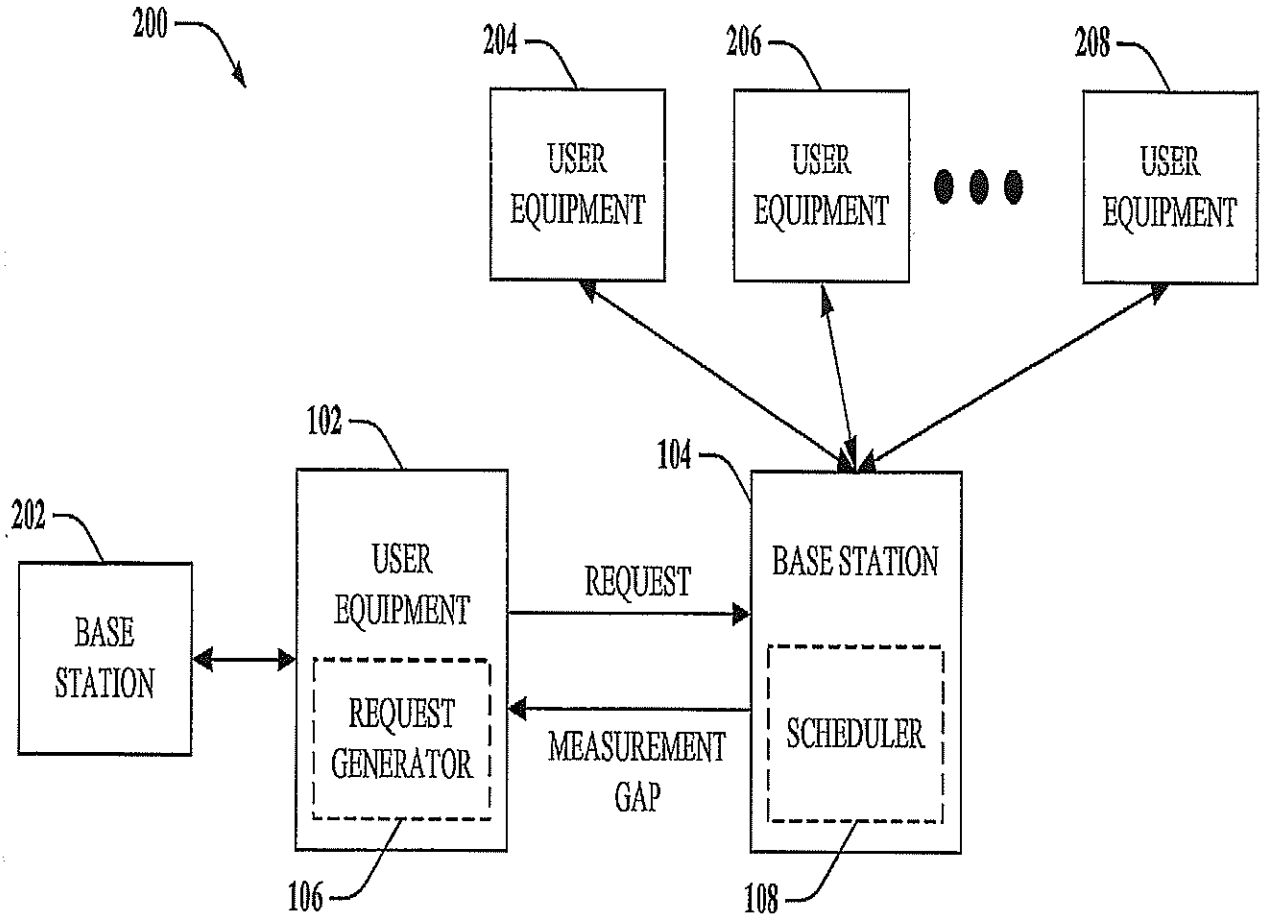

200
204
206
208
USER EQUIPMENT
USER EQUIPMENT
USER EQUIPMENT
102
104
202
USER EQUIPMENT
REQUEST
BASE STATION
BASE STATION
REQUEST GENERATOR
MEASUREMENT GAP
SCHEDULER
106
108

FIG. 2

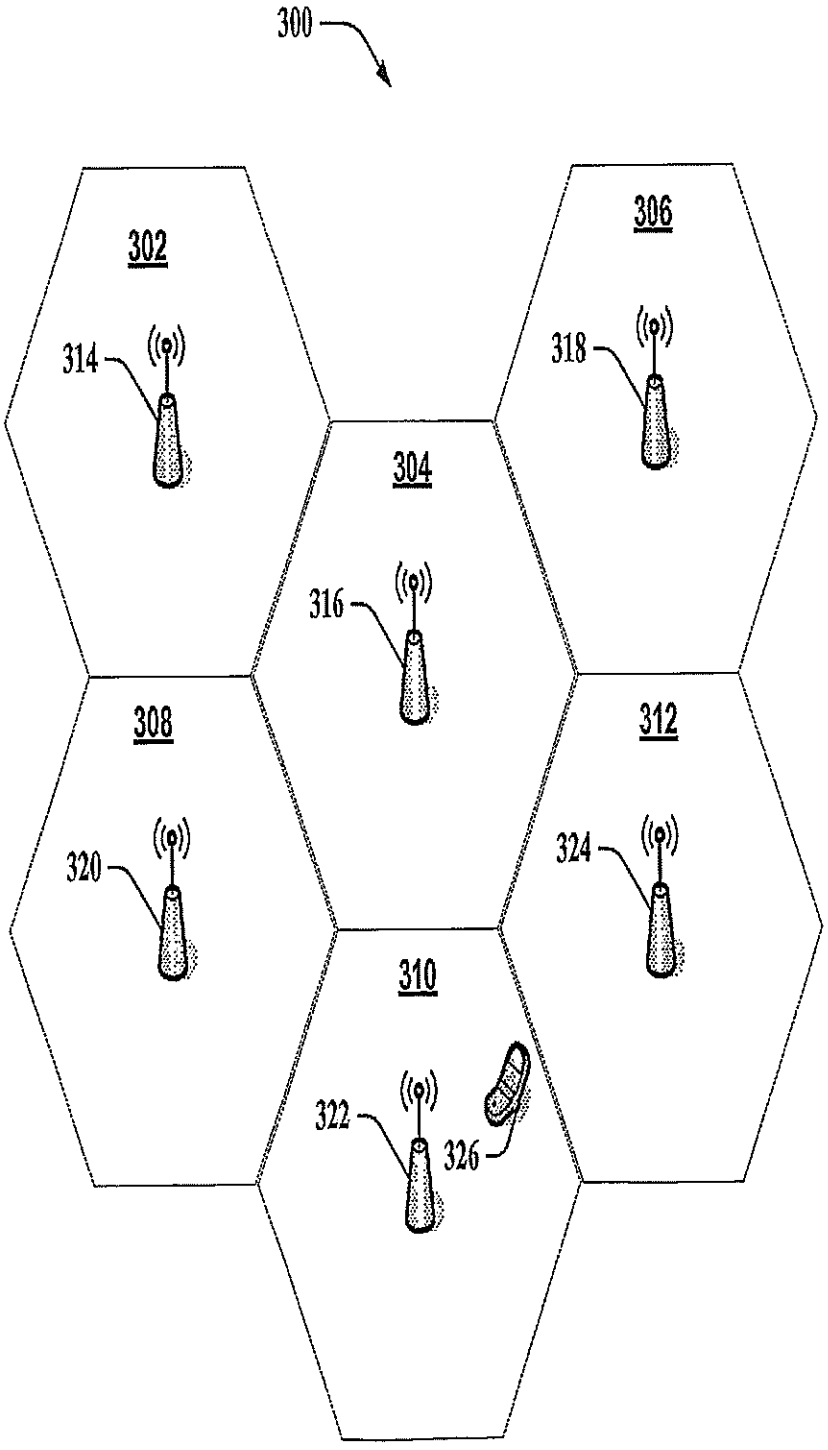


FIG. 3

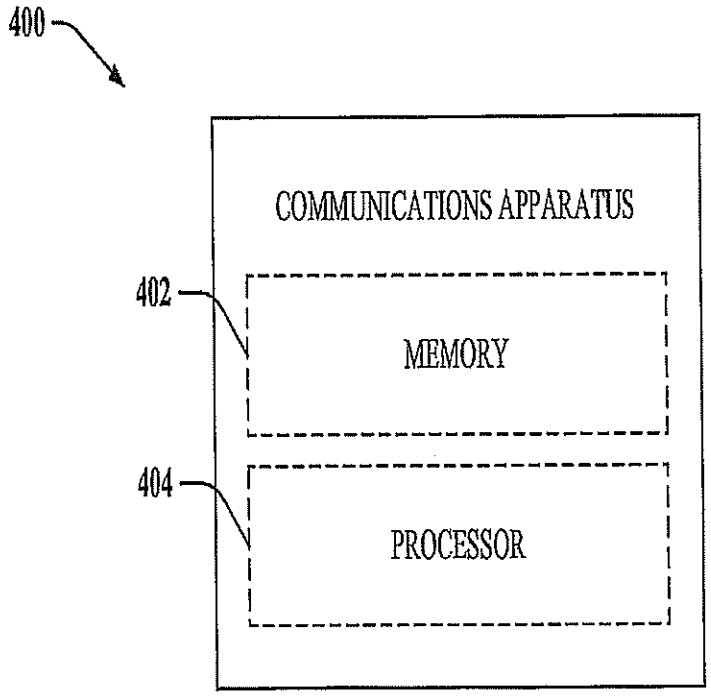


FIG. 4

5/14

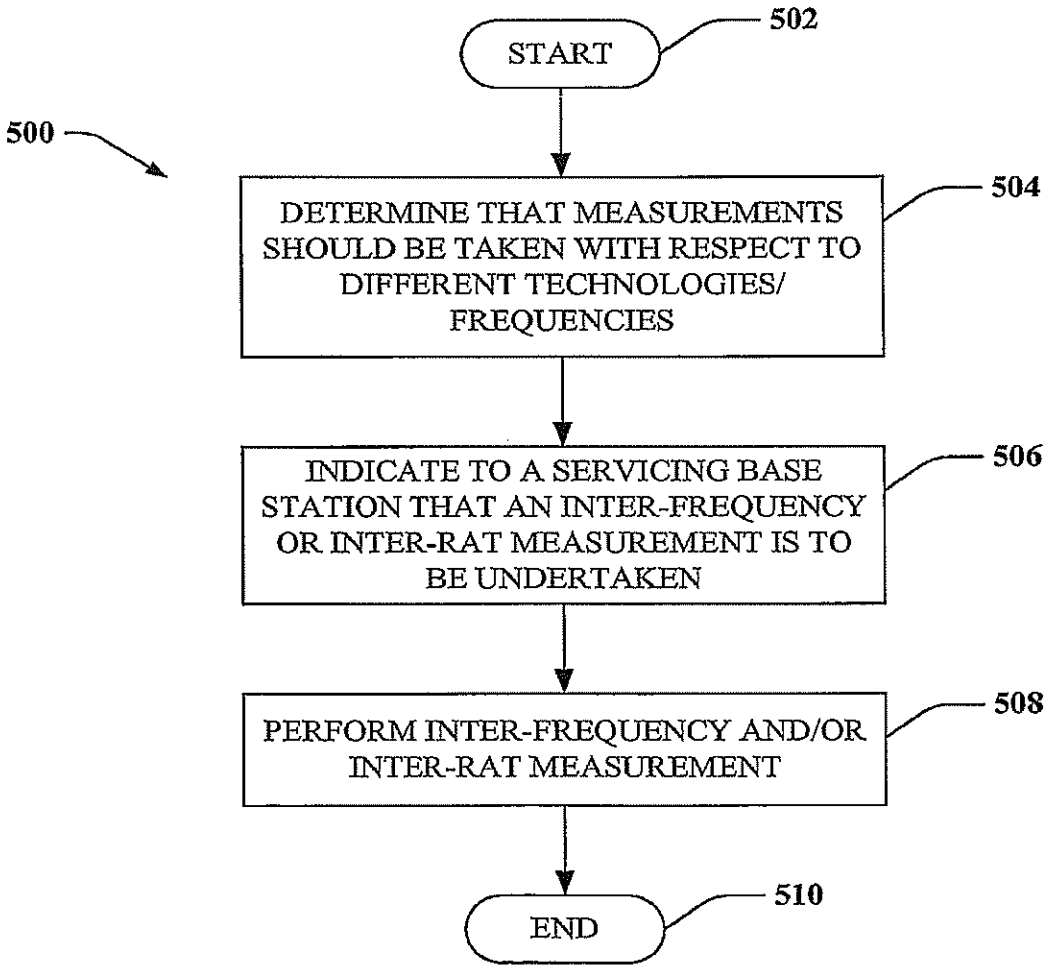

500
START
502
DETERMINE THAT MEASUREMENTS SHOULD BE TAKEN WITH RESPECT TO DIFFERENT TECHNOLOGIES/ FREQUENCIES
504
INDICATE TO A SERVICING BASE STATION THAT AN INTER-FREQUENCY OR INTER-RAT MEASUREMENT IS TO BE UNDERTAKEN
506
PERFORM INTER-FREQUENCY AND/OR INTER-RAT MEASUREMENT
508
END
510

FIG. 5

6/14

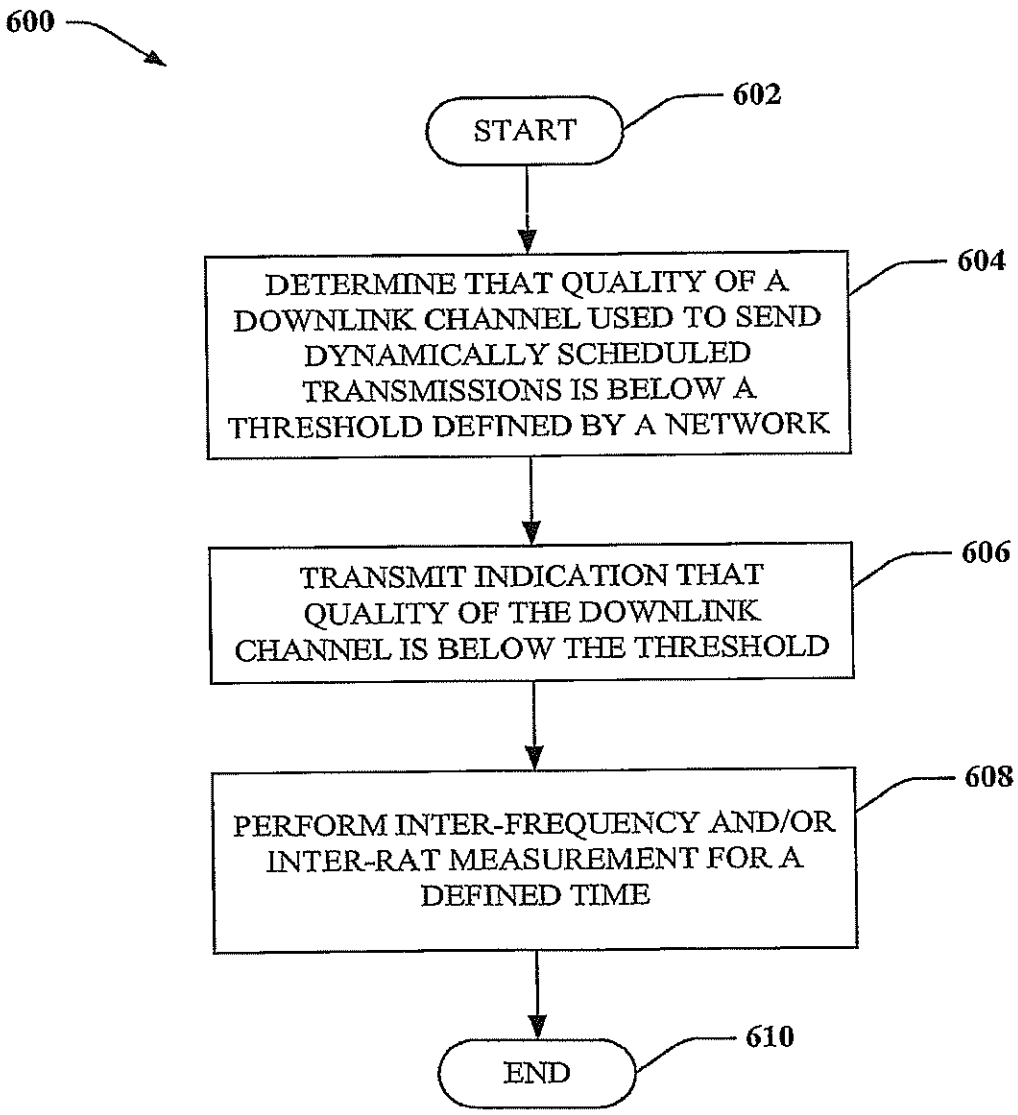

600
START
602
DETERMINE THAT QUALITY OF A DOWNLINK CHANNEL USED TO SEND DYNAMICALLY SCHEDULED TRANSMISSIONS IS BELOW A THRESHOLD DEFINED BY A NETWORK
604
TRANSMIT INDICATION THAT QUALITY OF THE DOWNLINK CHANNEL IS BELOW THE THRESHOLD
606
PERFORM INTER-FREQUENCY AND/OR INTER-RAT MEASUREMENT FOR A DEFINED TIME
608
END
610

FIG. 6

7/14

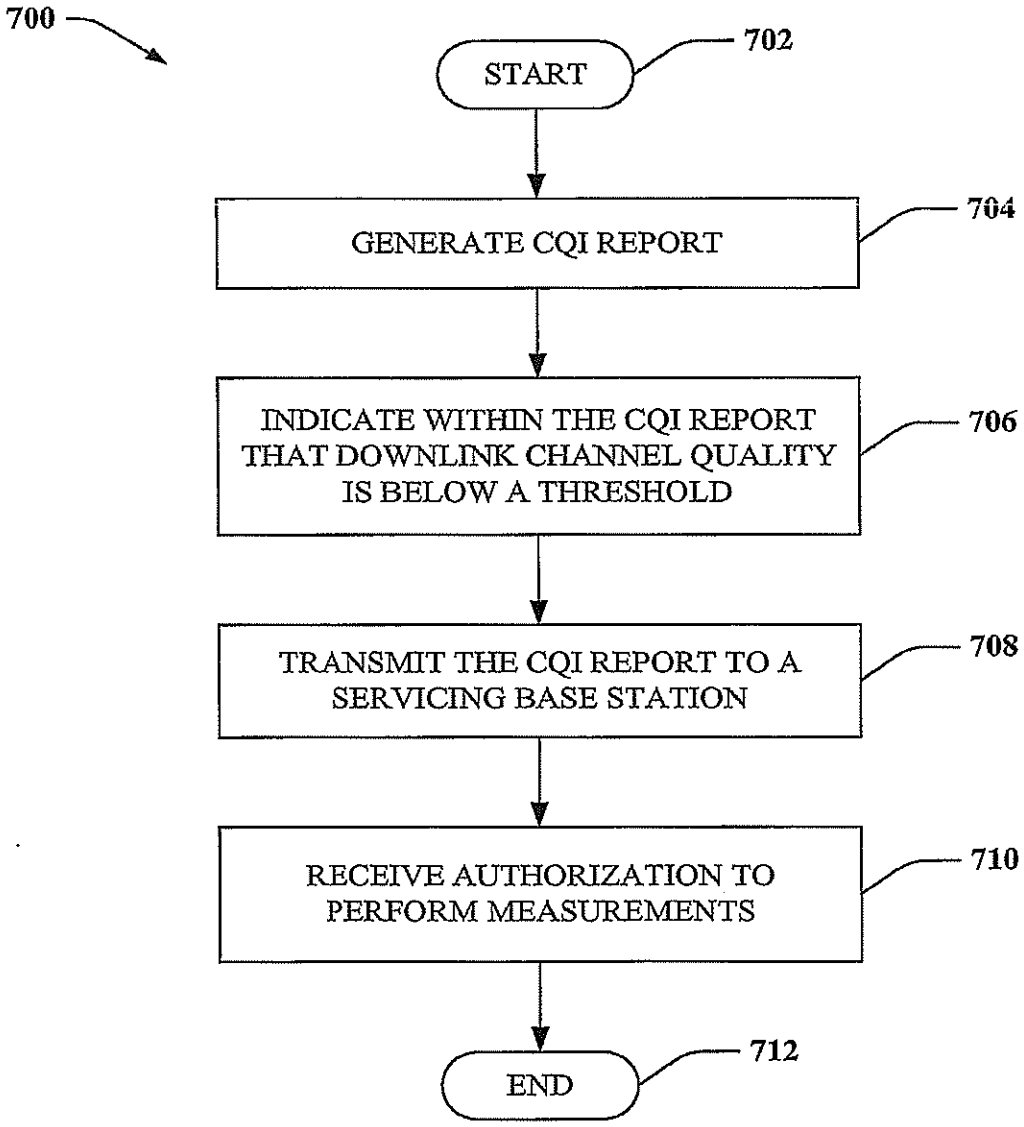

700
START
702
GENERATE CQI REPORT
704
INDICATE WITHIN THE CQI REPORT THAT DOWNLINK CHANNEL QUALITY IS BELOW A THRESHOLD
706
TRANSMIT THE CQI REPORT TO A SERVICING BASE STATION
708
RECEIVE AUTHORIZATION TO PERFORM MEASUREMENTS
710
END
712

FIG. 7

8/14

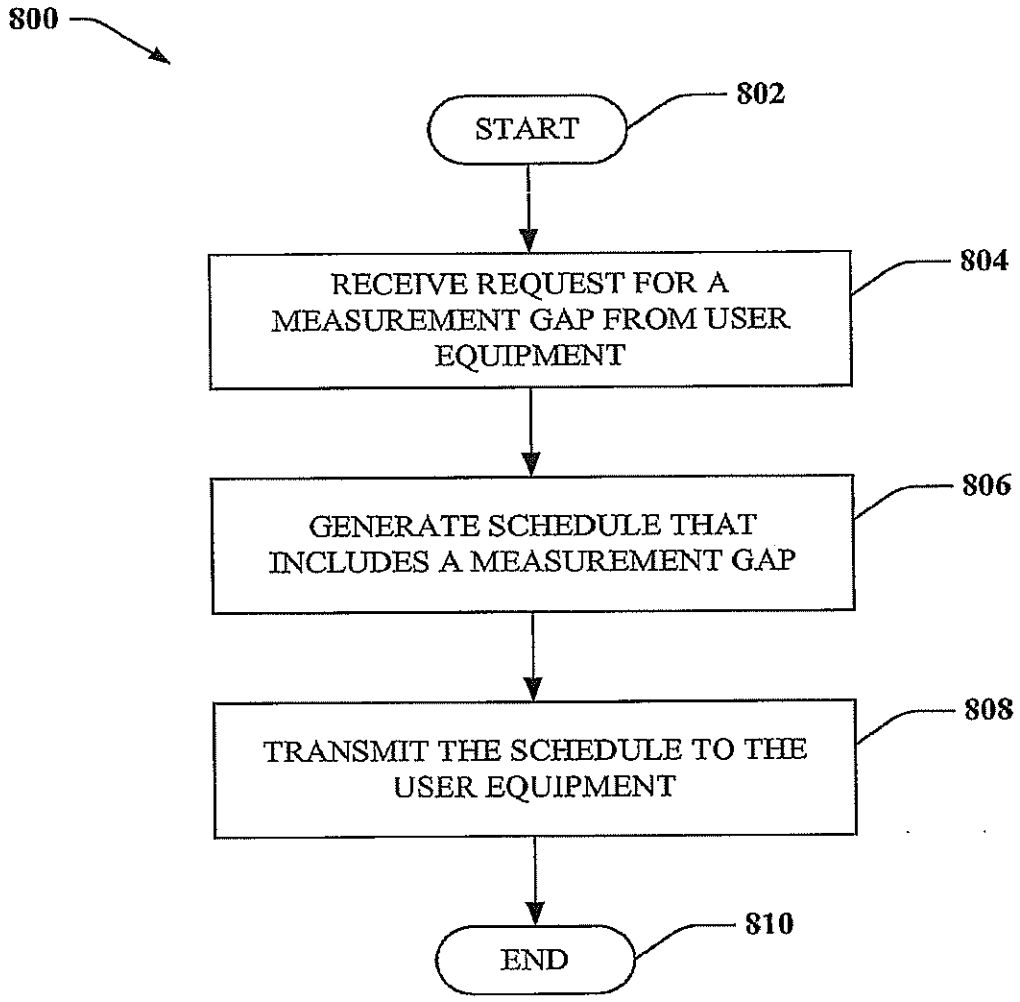

800
START
802
RECEIVE REQUEST FOR A MEASUREMENT GAP FROM USER EQUIPMENT
804
GENERATE SCHEDULE THAT INCLUDES A MEASUREMENT GAP
806
TRANSMIT THE SCHEDULE TO THE USER EQUIPMENT
808
END
810

FIG. 8

9/14

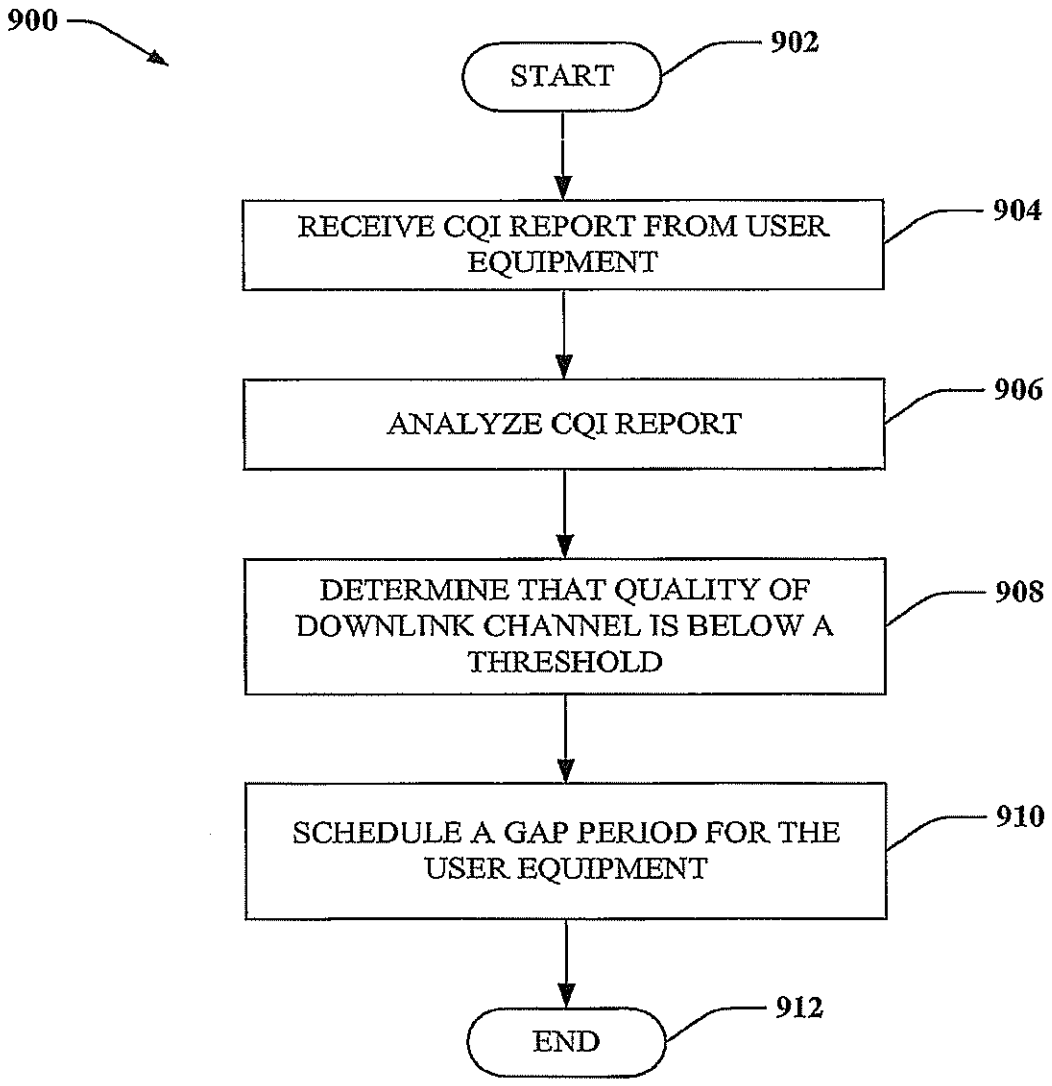

900
START
902
RECEIVE CQI REPORT FROM USER EQUIPMENT
904
ANALYZE CQI REPORT
906
DETERMINE THAT QUALITY OF DOWNLINK CHANNEL IS BELOW A THRESHOLD
908
SCHEDULE A GAP PERIOD FOR THE USER EQUIPMENT
910
END
912

FIG. 9

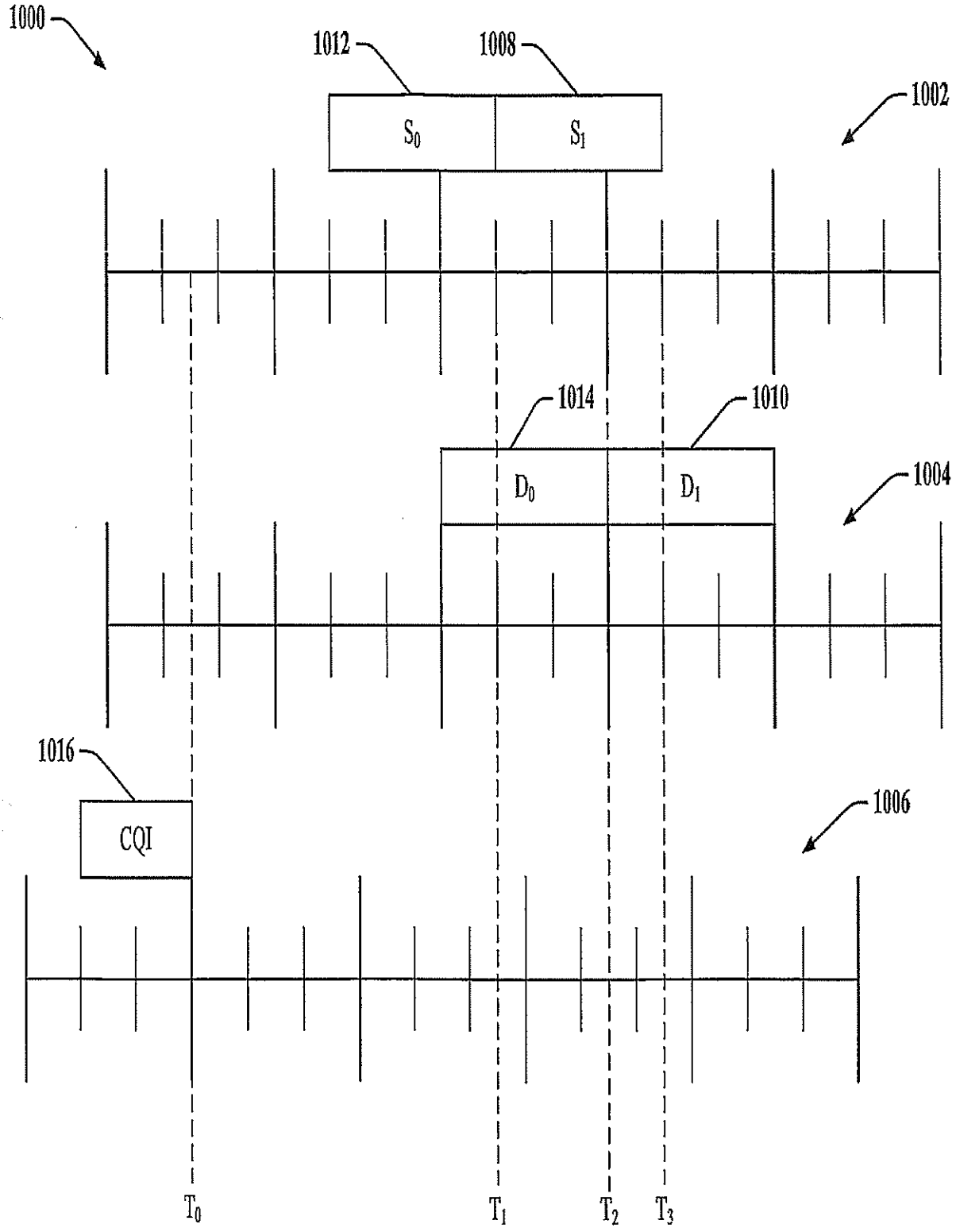

1000
1012
1008
1002
S_0
S_1
1014
1010
1004
D_0
D_1
1016
CQI
1006
T_0
T_1
T_2
T_3

FIG. 10

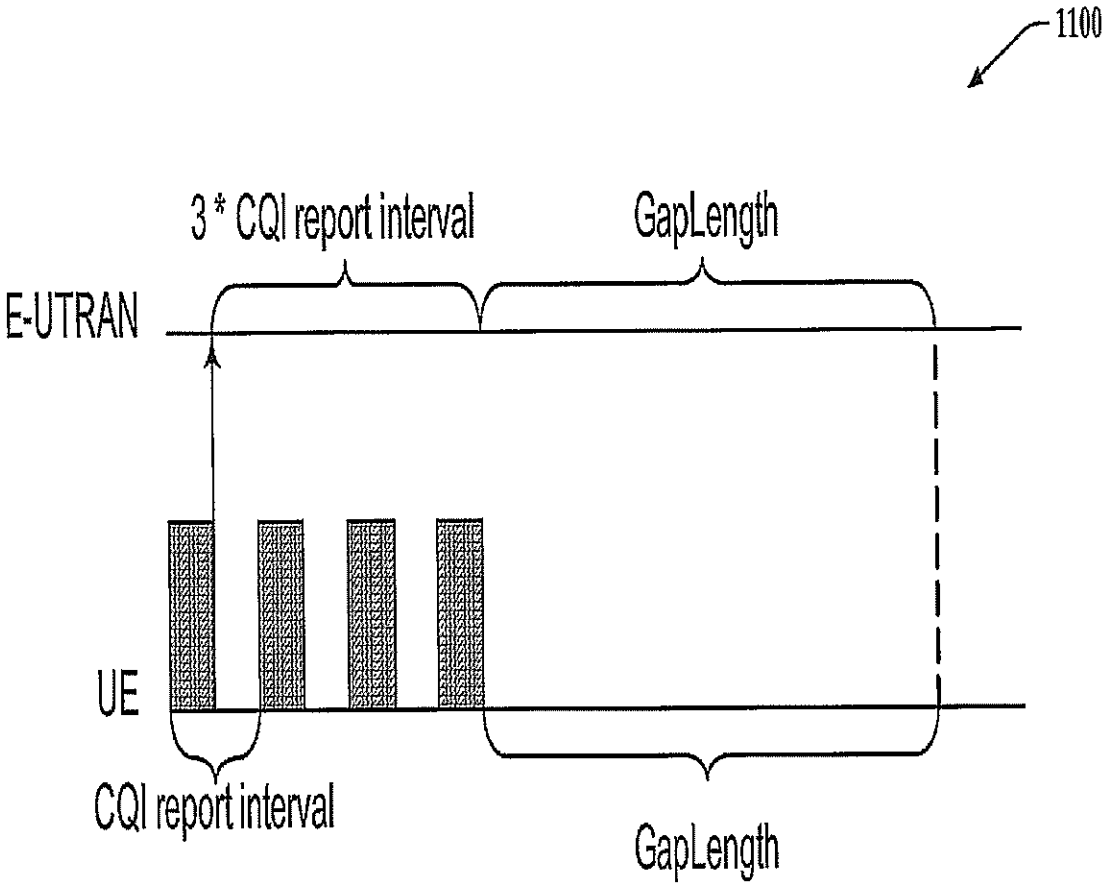

1100
3 * CQI report interval
GapLength
E-UTRAN
UE
CQI report interval
GapLength

FIG. 11

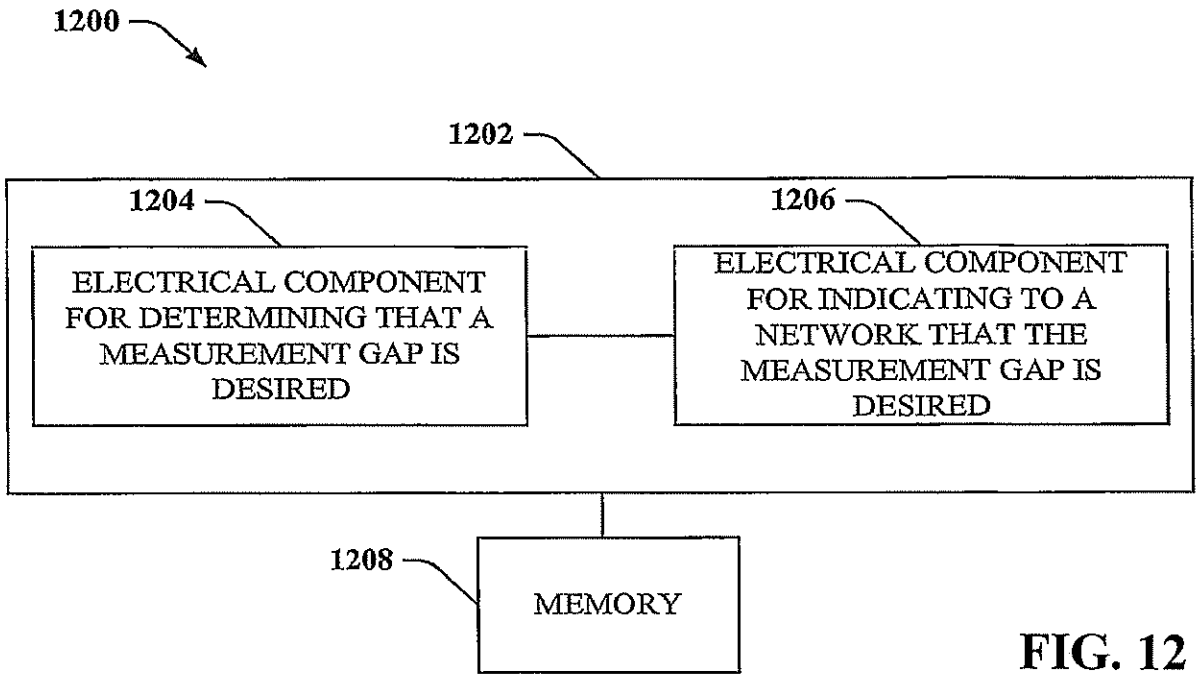

1200
1202
1204
ELECTRICAL COMPONENT FOR DETERMINING THAT A MEASUREMENT GAP IS DESIRED
1206
ELECTRICAL COMPONENT FOR INDICATING TO A NETWORK THAT THE MEASUREMENT GAP IS DESIRED
1208
MEMORY

FIG. 12

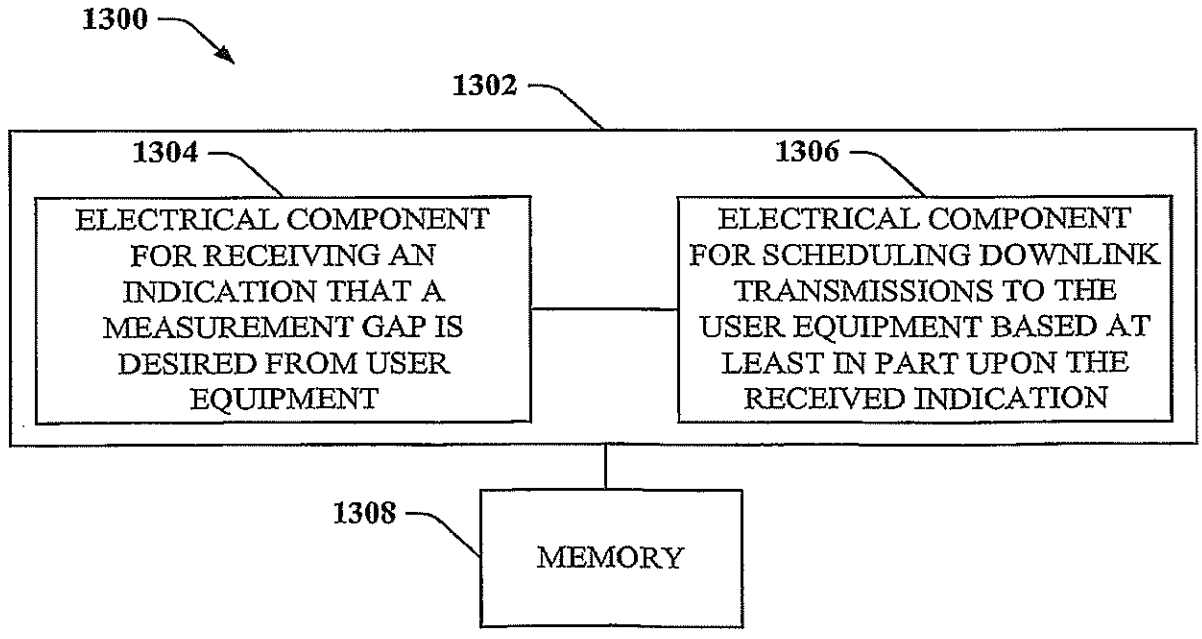

1300
1302
1304
ELECTRICAL COMPONENT FOR RECEIVING AN INDICATION THAT A MEASUREMENT GAP IS DESIRED FROM USER EQUIPMENT
1306
ELECTRICAL COMPONENT FOR SCHEDULING DOWNLINK TRANSMISSIONS TO THE USER EQUIPMENT BASED AT LEAST IN PART UPON THE RECEIVED INDICATION
1308
MEMORY

FIG. 13

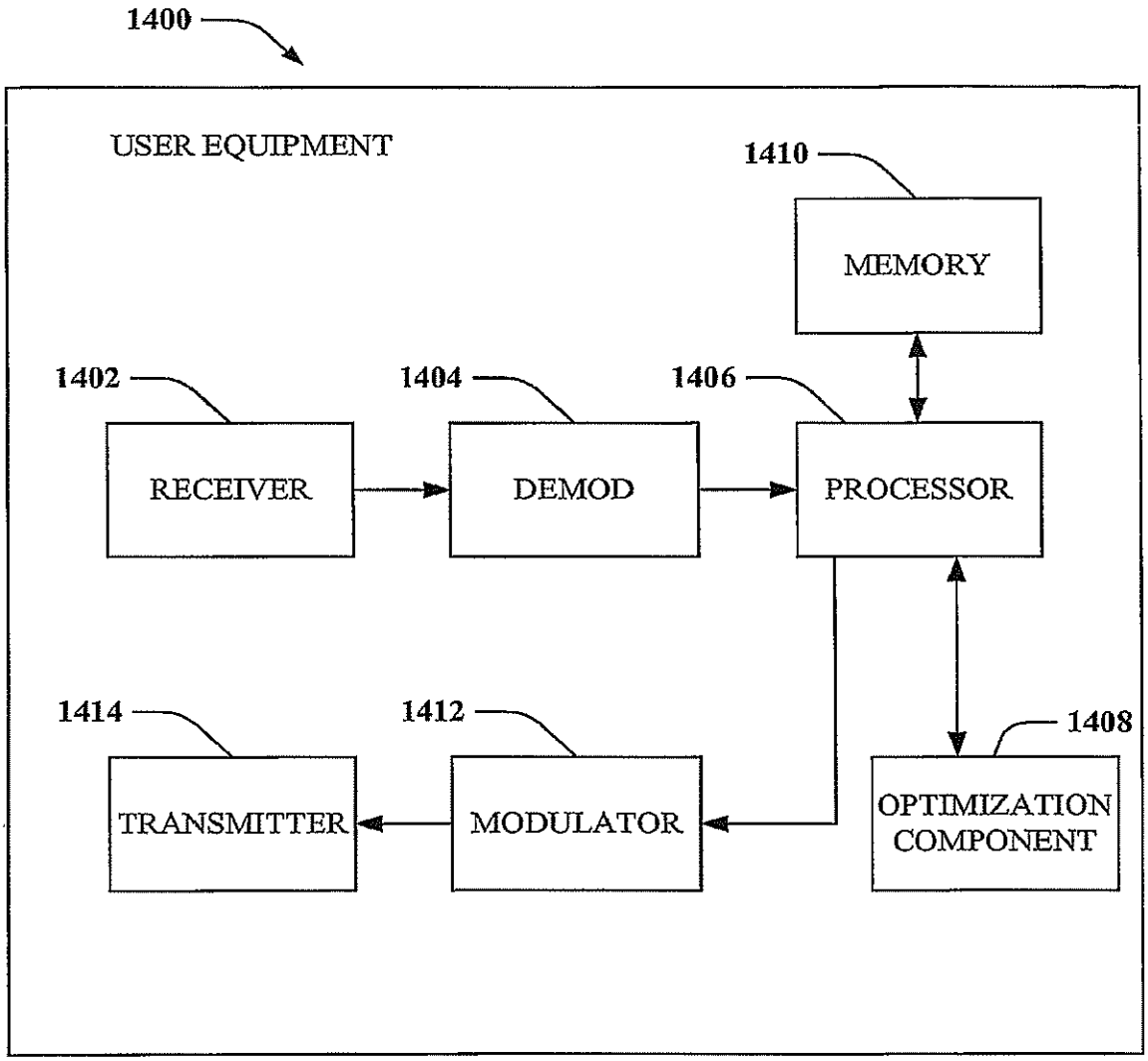

1400
USER EQUIPMENT
1410
MEMORY
1402
RECEIVER
1404
DEMOD
1406
PROCESSOR
1414
TRANSMITTER
1412
MODULATOR
1408
OPTIMIZATION COMPONENT

FIG. 14

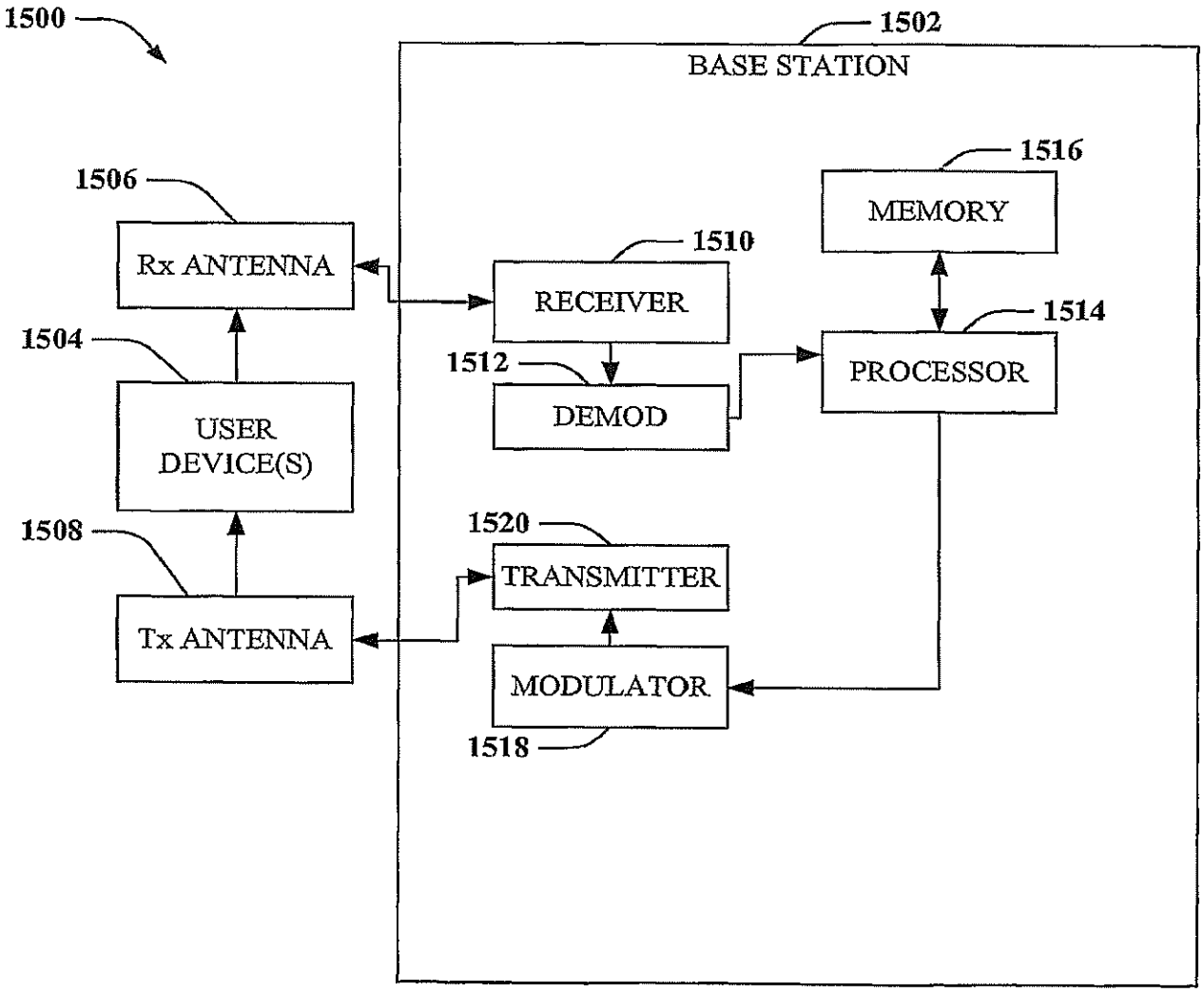

1500
1502
BASE STATION
1506
Rx ANTENNA
1504
USER DEVICE(S)
1508
Tx ANTENNA
1510
RECEIVER
1512
DEMOD
1516
MEMORY
1514
PROCESSOR
1520
TRANSMITTER
MODULATOR
1518

FIG. 15