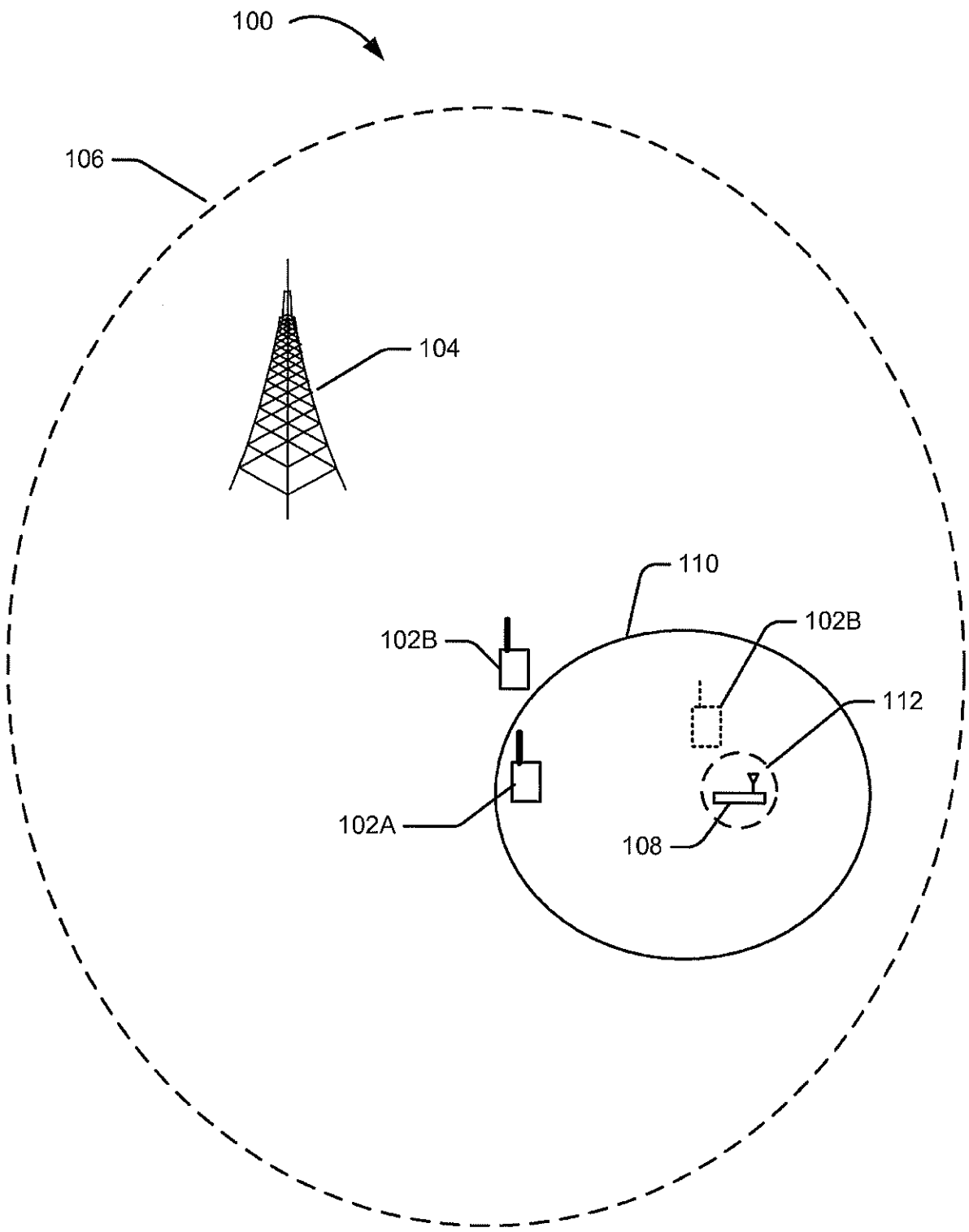


FIG. 1

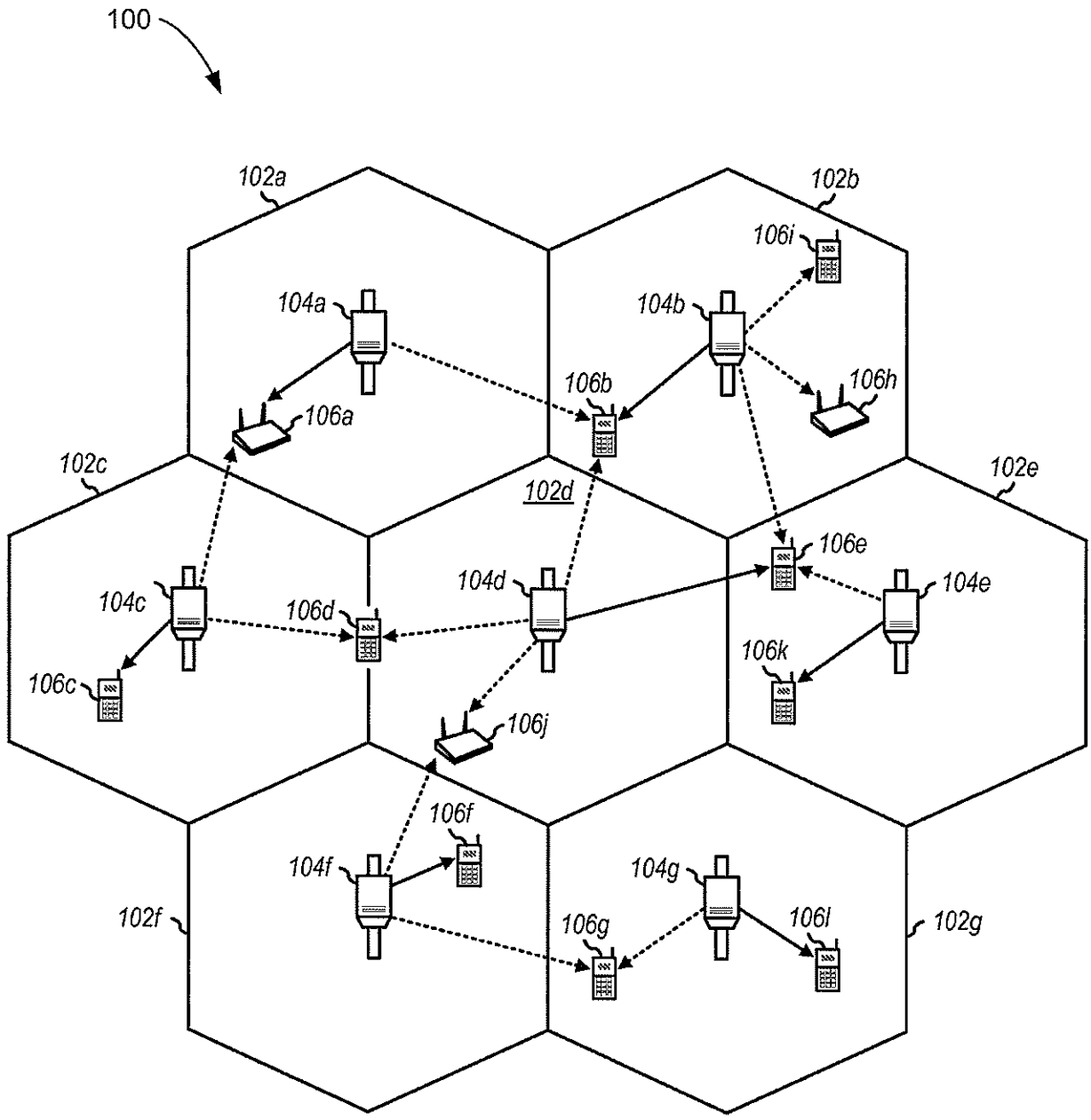

100
102a
102b
102c
102d
102e
102f
102g
104a
104b
104c
104d
104e
104f
104g
106a
106b
106c
106d
106e
106f
106g
106h
106i
106j
106k
106l

FIG. 2

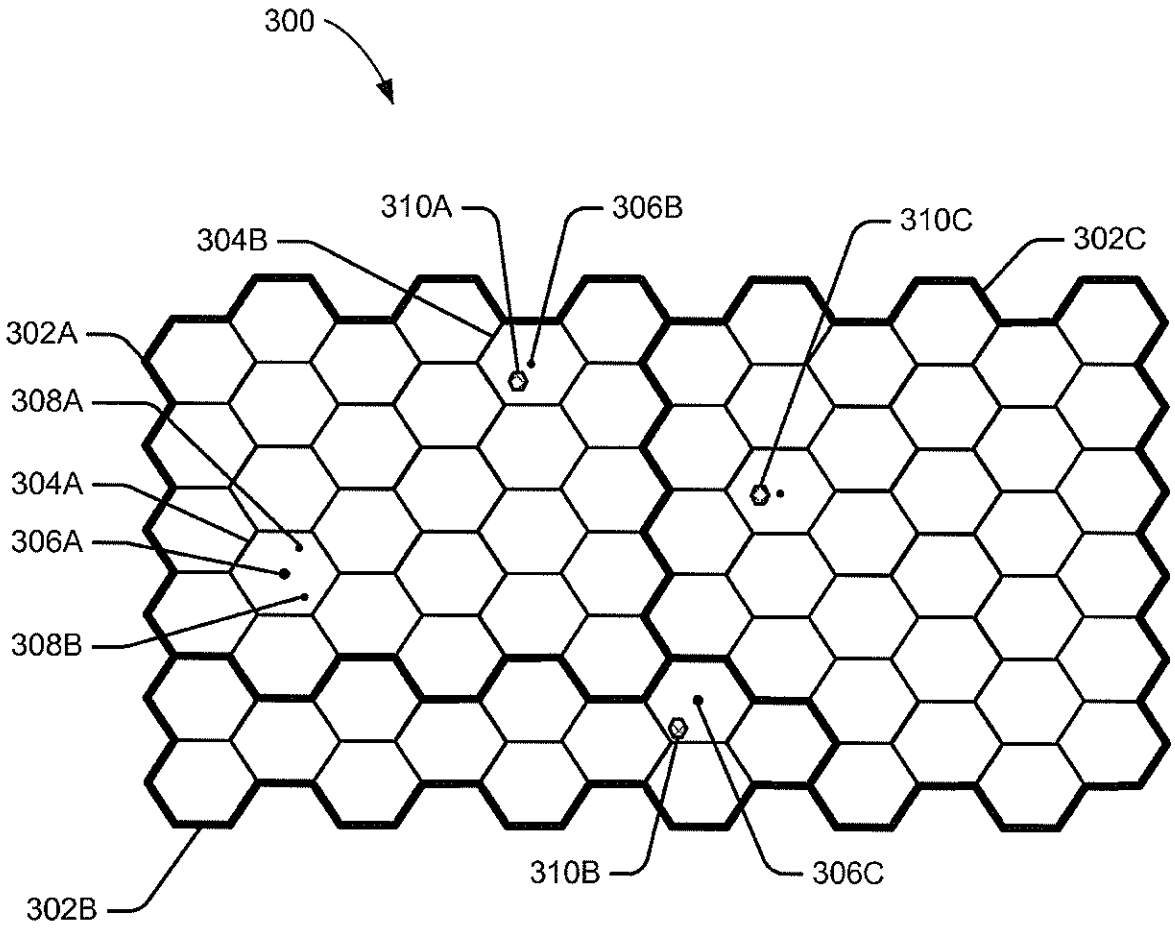

300
310A
306B
310C
302C
304B
302A
308A
304A
306A
308B
302B
310B
306C

FIG. 3

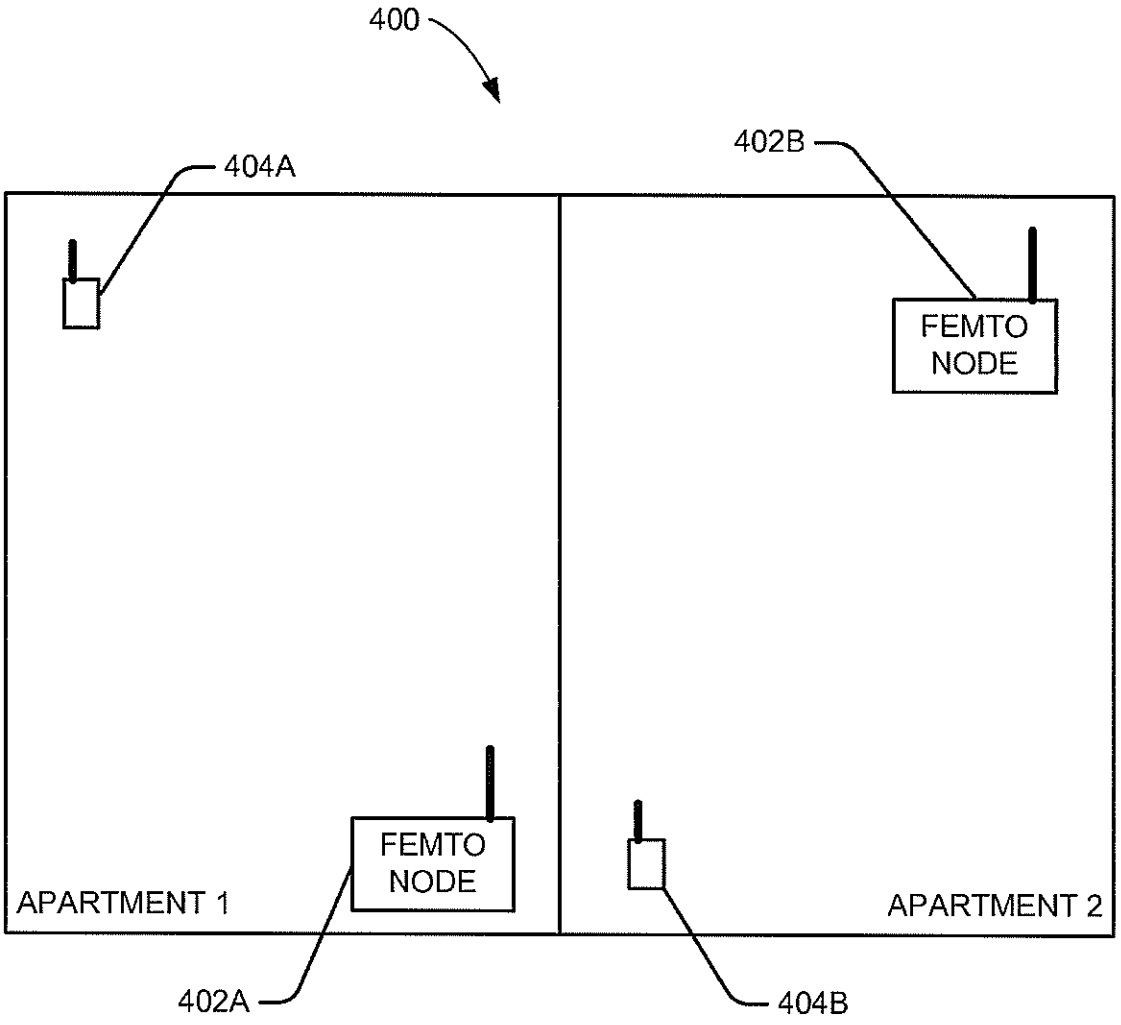

400
404A
402B
FEMTO NODE
APARTMENT 1
FEMTO NODE
APARTMENT 2
402A
404B

FIG. 4

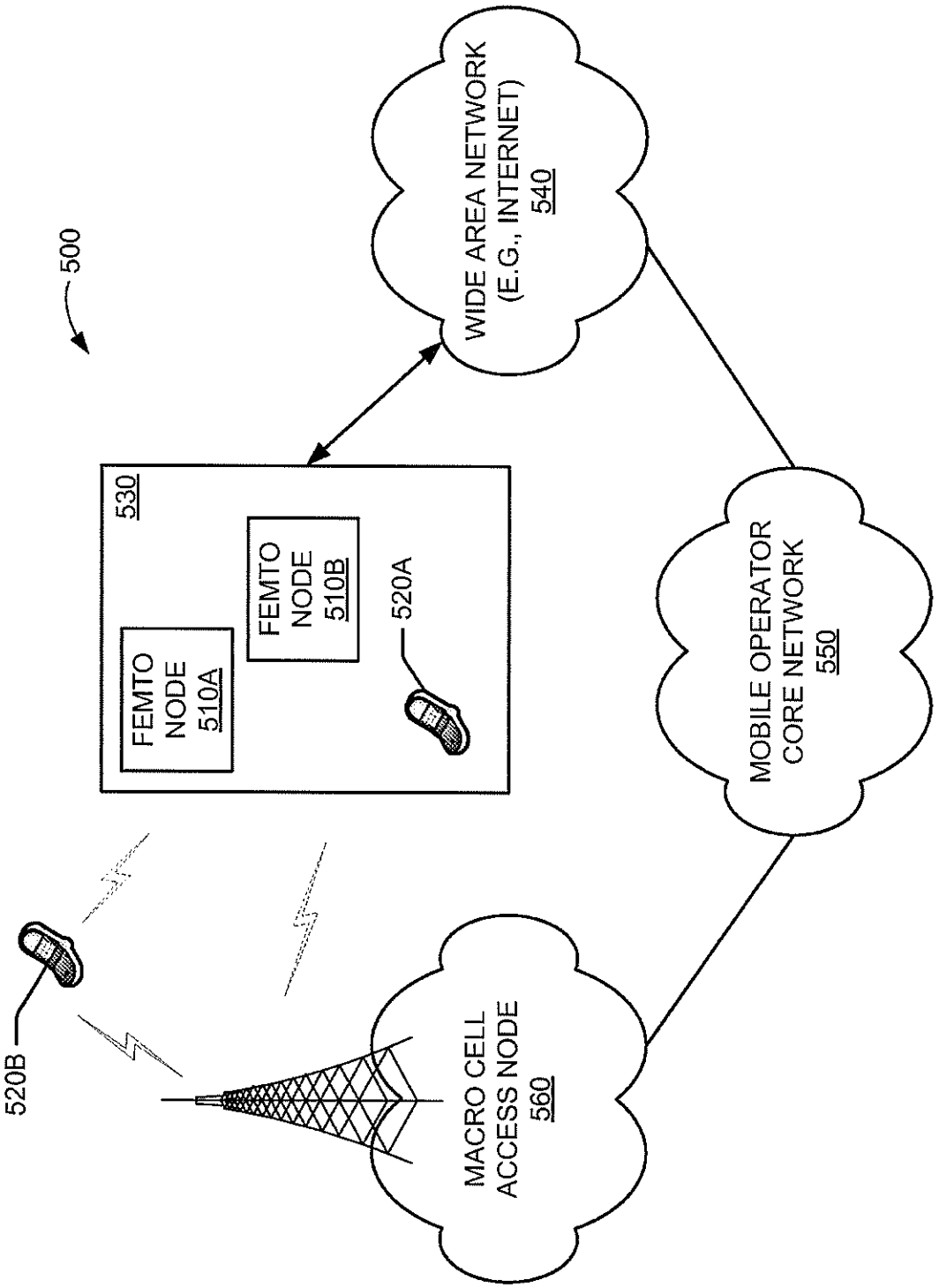

500
WIDE AREA NETWORK
(E.G., INTERNET)
540
530
FEMTO
NODE
510A
FEMTO
NODE
510B
520A
520B
MACRO CELL
ACCESS NODE
560
MOBILE OPERATOR
CORE NETWORK
550

FIG. 5

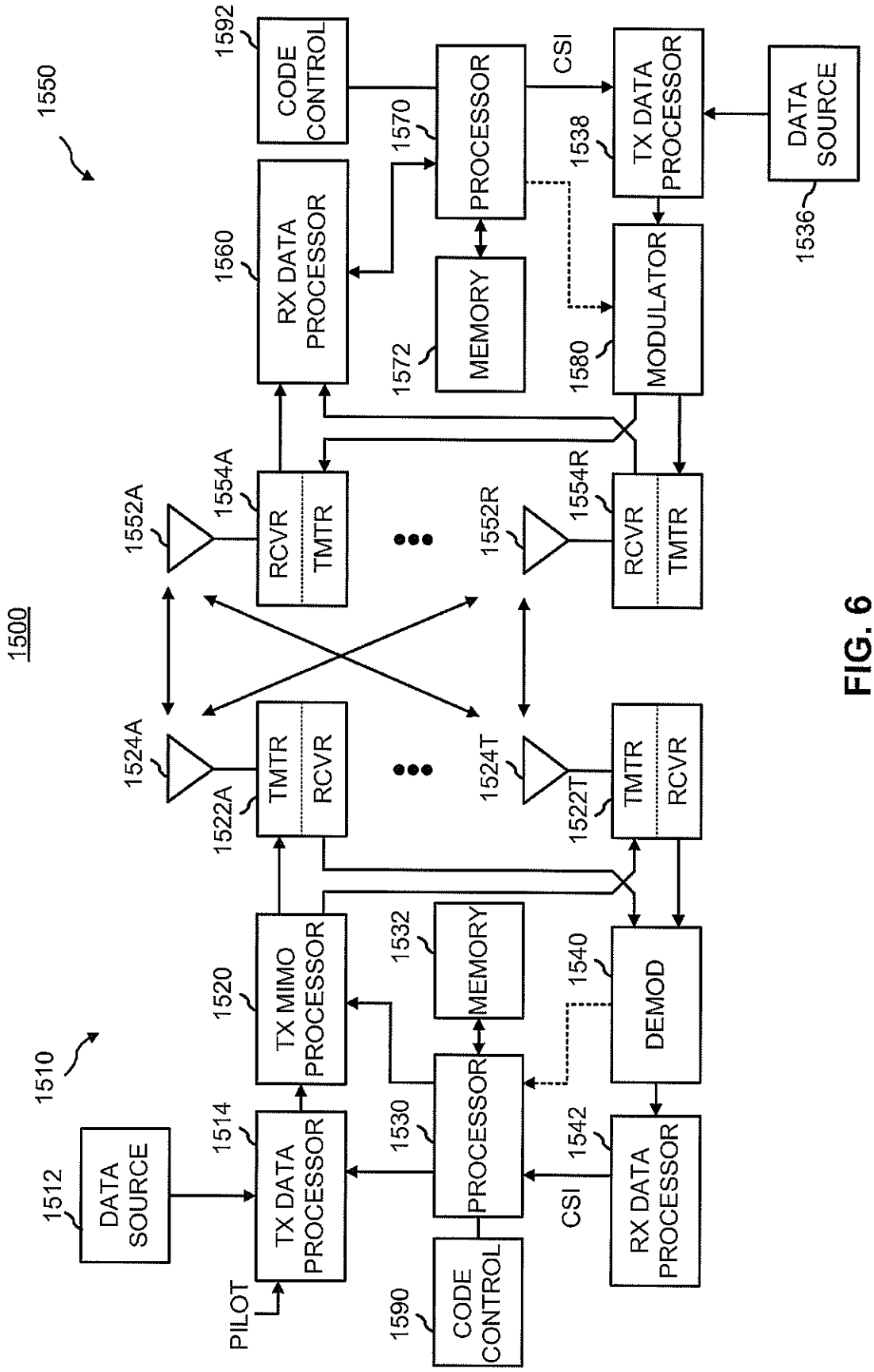

1500
1510
1512
DATA SOURCE
1514
TX DATA PROCESSOR
PILOT
1520
TX MIMO PROCESSOR
1522A
TMTR
RCVR
1524A
1524T
1522T
1530
PROCESSOR
1532
MEMORY
1540
DEMOD
1542
RX DATA PROCESSOR
CSI
1590
CODE CONTROL
1550
1552A
1554A
RCVR
TMTR
1552R
1554R
1560
RX DATA PROCESSOR
1570
PROCESSOR
1572
MEMORY
1580
MODULATOR
1538
TX DATA PROCESSOR
CSI
1592
CODE CONTROL
1536
DATA SOURCE

FIG. 6

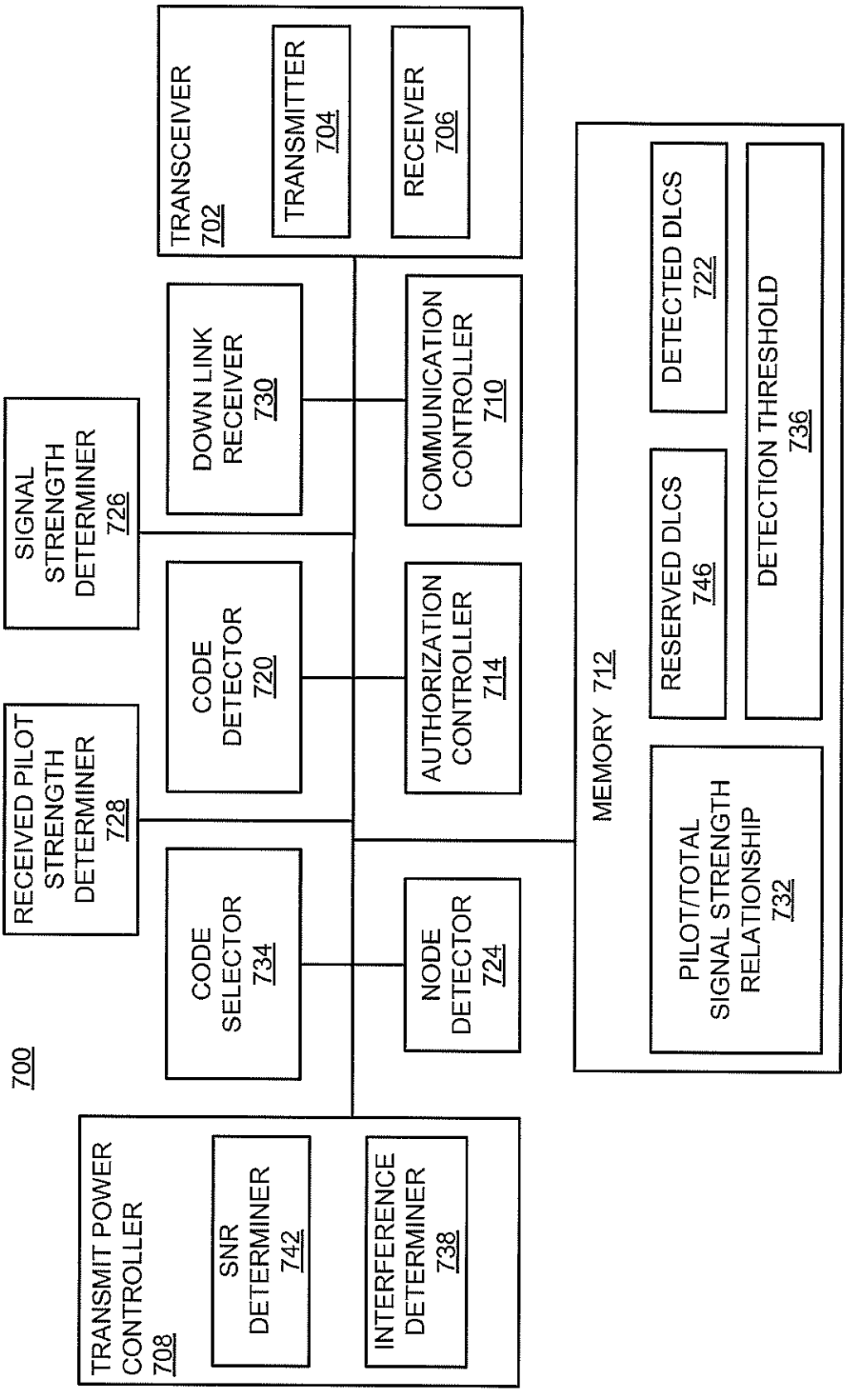

700
TRANSCEIVER 702
TRANSMITTER 704
RECEIVER 706
DOWN LINK RECEIVER 730
COMMUNICATION CONTROLLER 710
SIGNAL STRENGTH DETERMINER 726
CODE DETECTOR 720
AUTHORIZATION CONTROLLER 714
RECEIVED PILOT STRENGTH DETERMINER 728
CODE SELECTOR 734
NODE DETECTOR 724
MEMORY 712
DETECTED DLCS 722
RESERVED DLCS 746
DETECTION THRESHOLD 736
PILOT/TOTAL SIGNAL STRENGTH RELATIONSHIP 732
TRANSMIT POWER CONTROLLER 708
SNR DETERMINER 742
INTERFERENCE DETERMINER 738

FIG. 7

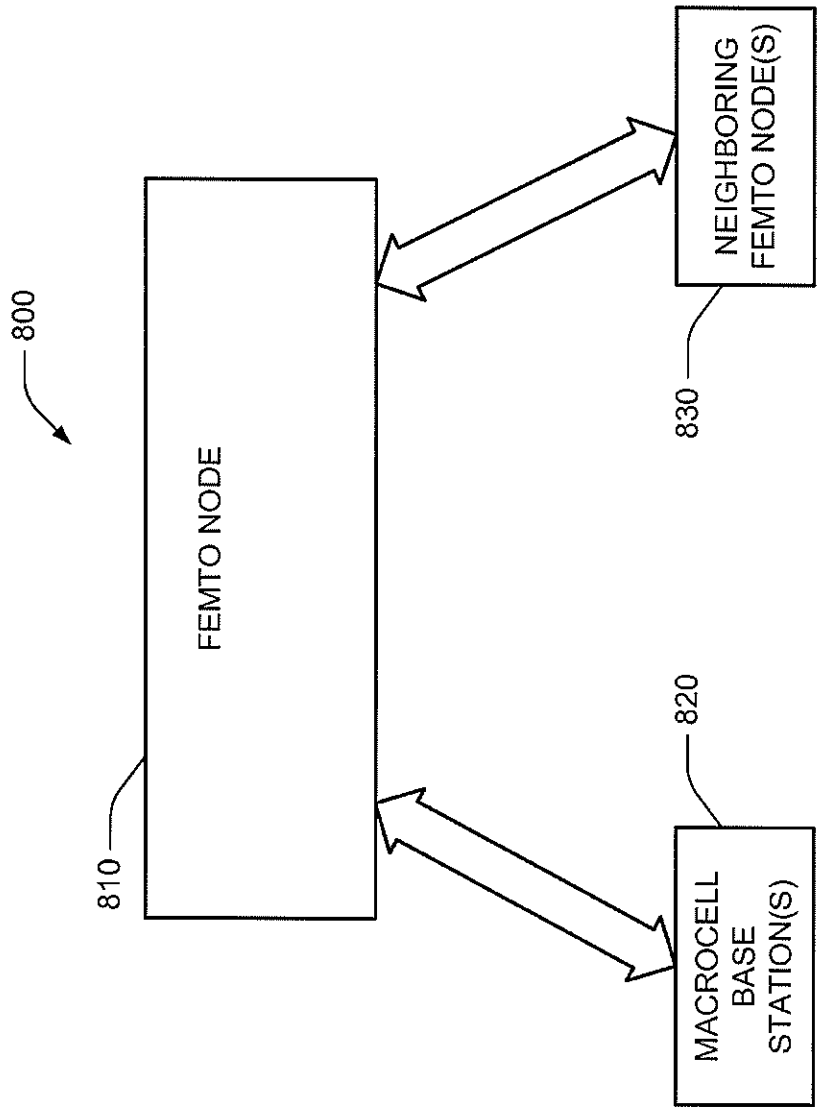

800
FEMTO NODE
810
NEIGHBORING FEMTO NODE(S)
830
820
MACROCELL BASE STATION(S)

FIG. 8

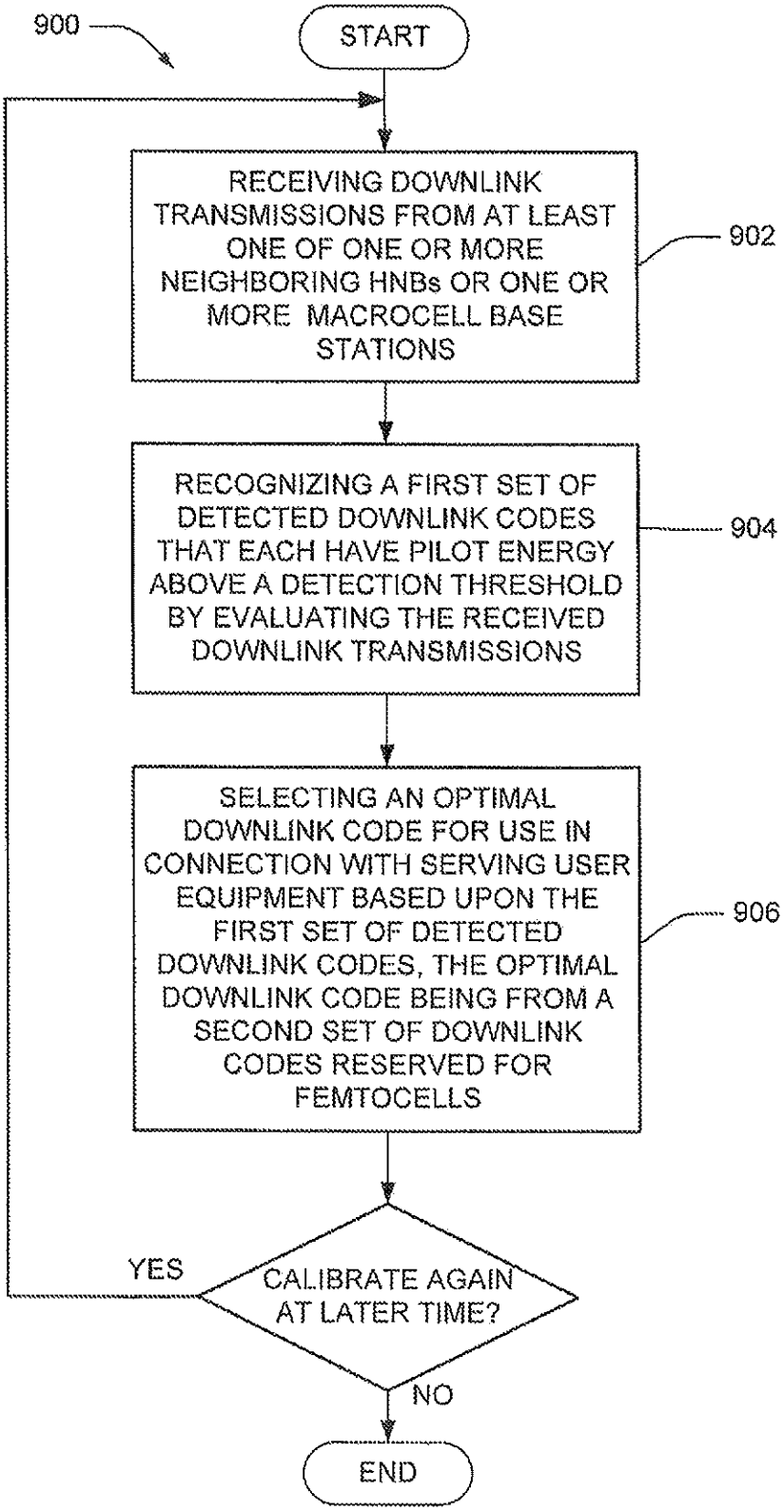

900
START
RECEIVING DOWNLINK TRANSMISSIONS FROM AT LEAST ONE OF ONE OR MORE NEIGHBORING HNBs OR ONE OR MORE MACROCELL BASE STATIONS
902
RECOGNIZING A FIRST SET OF DETECTED DOWNLINK CODES THAT EACH HAVE PILOT ENERGY ABOVE A DETECTION THRESHOLD BY EVALUATING THE RECEIVED DOWNLINK TRANSMISSIONS
904
SELECTING AN OPTIMAL DOWNLINK CODE FOR USE IN CONNECTION WITH SERVING USER EQUIPMENT BASED UPON THE FIRST SET OF DETECTED DOWNLINK CODES, THE OPTIMAL DOWNLINK CODE BEING FROM A SECOND SET OF DOWNLINK CODES RESERVED FOR FEMTOCELLS
906
YES
CALIBRATE AGAIN AT LATER TIME?
NO
END

FIG. 9

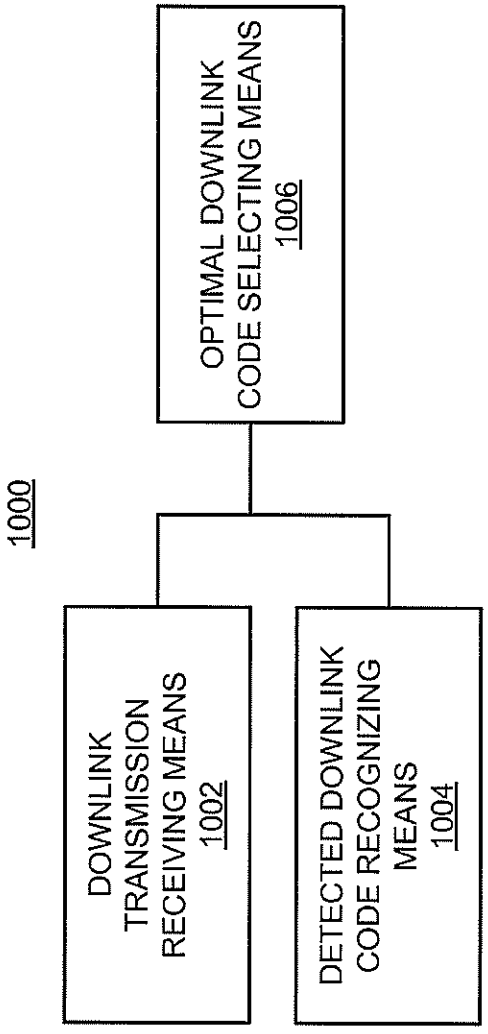

1000
OPTIMAL DOWNLINK CODE SELECTING MEANS 1006
DOWNLINK TRANSMISSION RECEIVING MEANS 1002
DETECTED DOWNLINK CODE RECOGNIZING MEANS 1004

FIG. 10