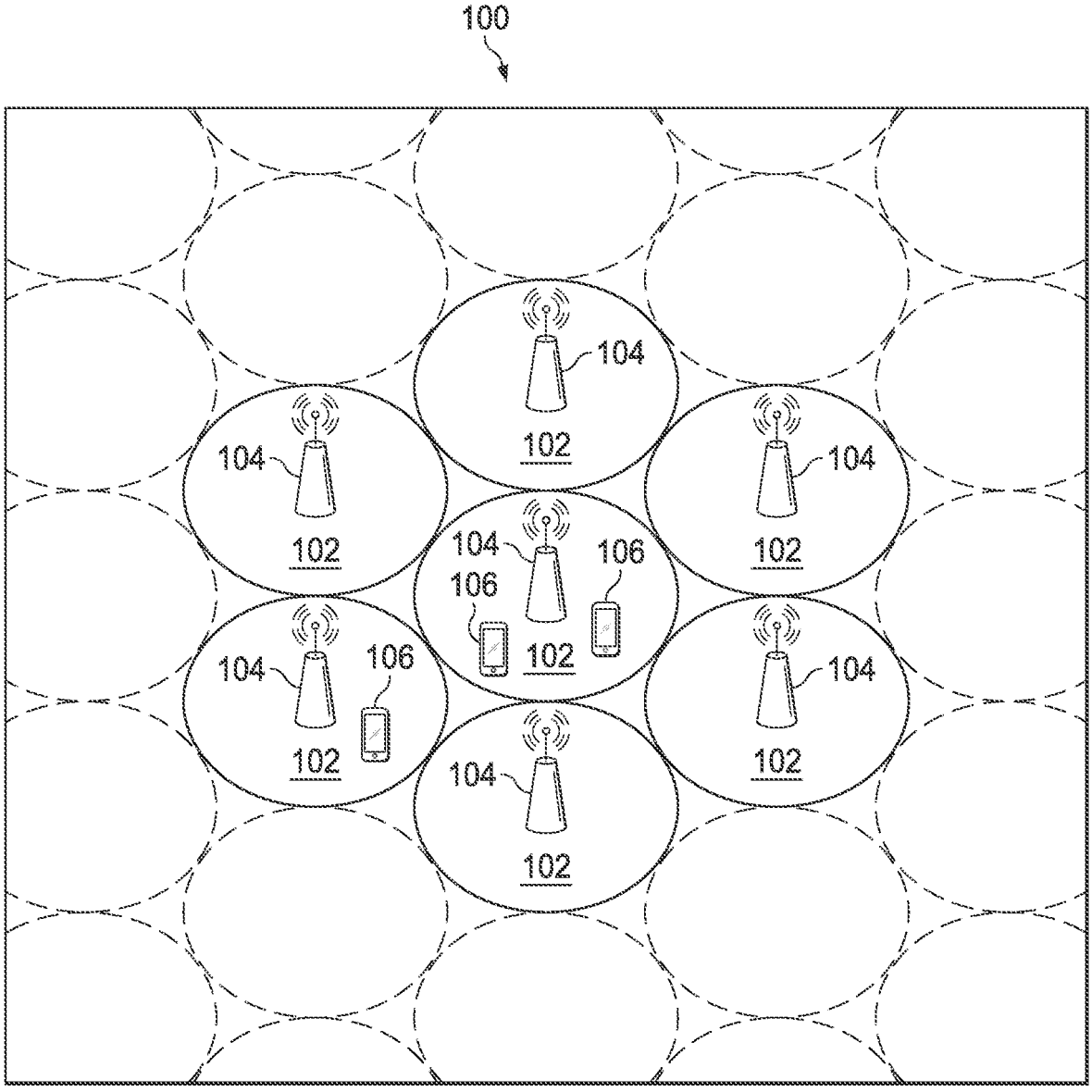
100
104
102
104
102
104
102
104
106
106
102
104
106
102
104
102
104
102

FIG. 1

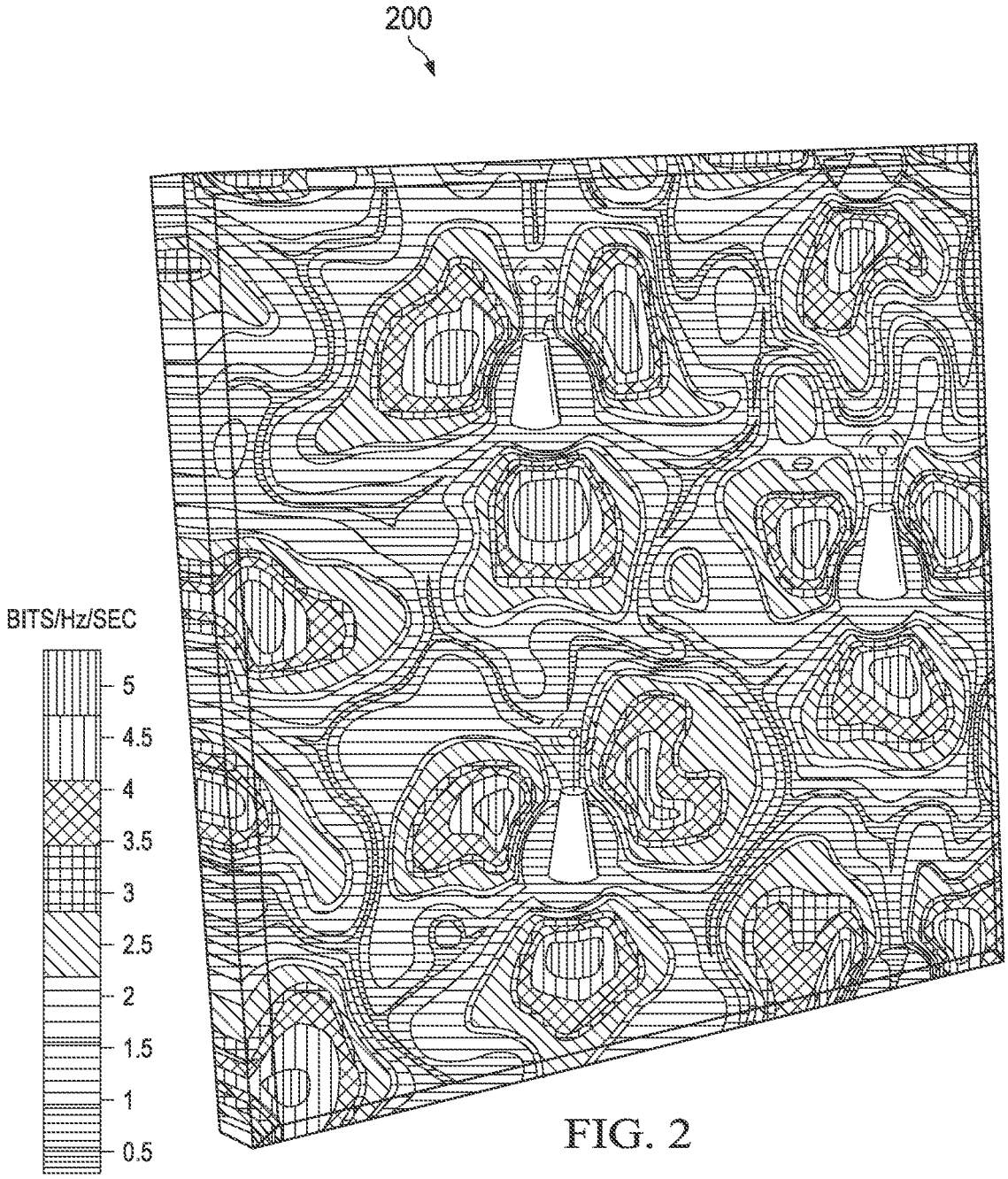

FIG. 2

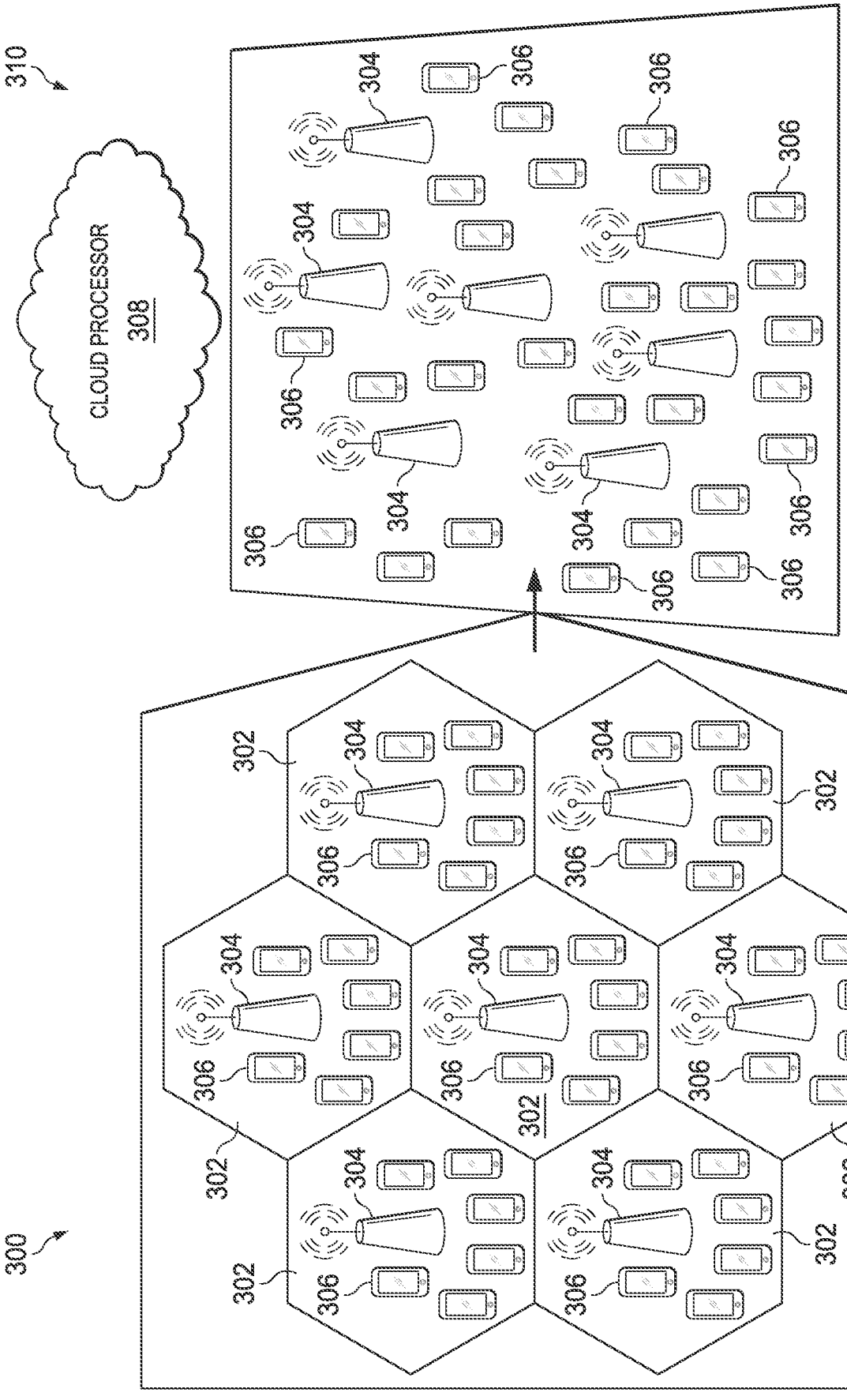

FIG. 3

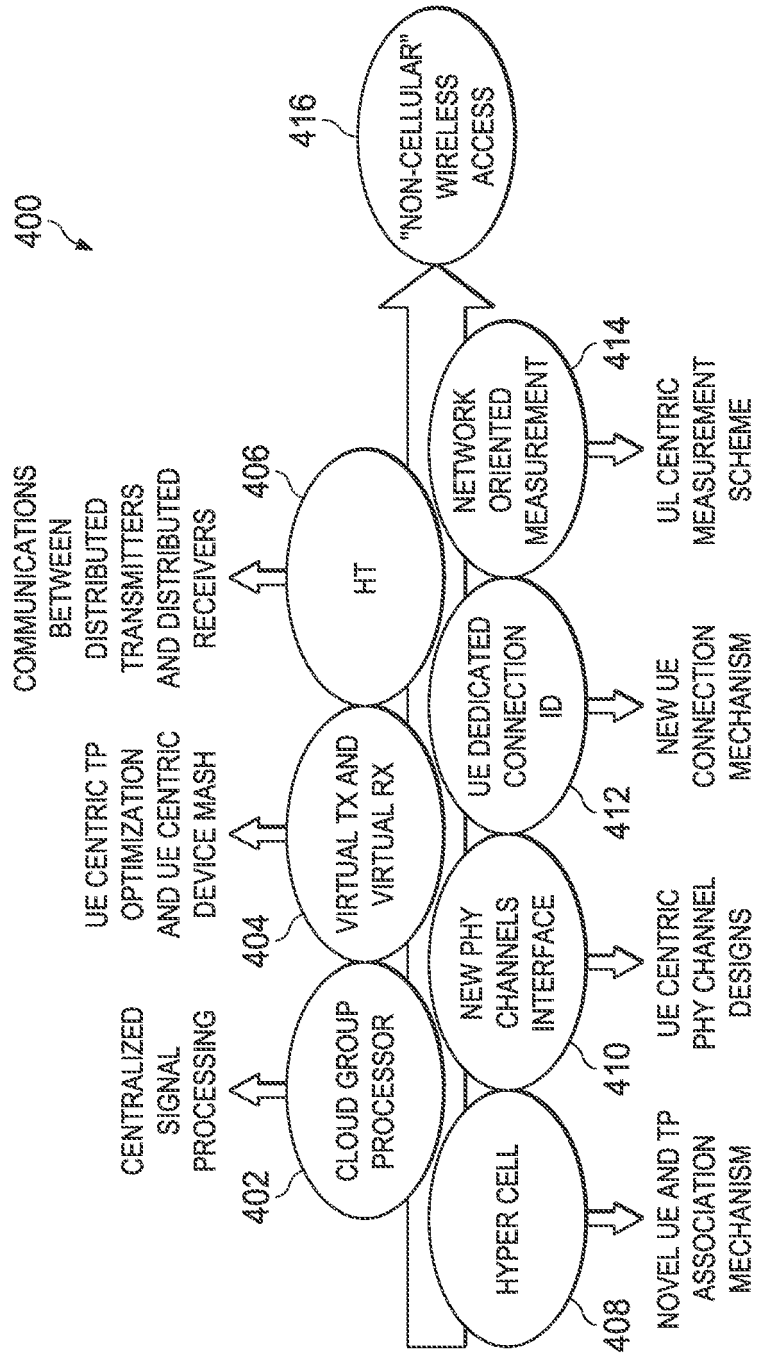
400
COMMUNICATIONS BETWEEN DISTRIBUTED TRANSMITTERS AND DISTRIBUTED RECEIVERS
UE CENTRIC TP OPTIMIZATION AND UE CENTRIC DEVICE MASH
CENTRALIZED SIGNAL PROCESSING
402
CLOUD GROUP PROCESSOR
404
VIRTUAL TX AND VIRTUAL RX
406
HT
416
"NON-CELLULAR" WIRELESS ACCESS
HYPER CELL
408
NOVEL UE AND TP ASSOCIATION MECHANISM
NEW PHY CHANNELS INTERFACE
410
UE CENTRIC PHY CHANNEL DESIGNS
UE DEDICATED CONNECTION ID
412
NEW UE CONNECTION MECHANISM
NETWORK ORIENTED MEASUREMENT
414
UL CENTRIC MEASUREMENT SCHEME

FIG. 4

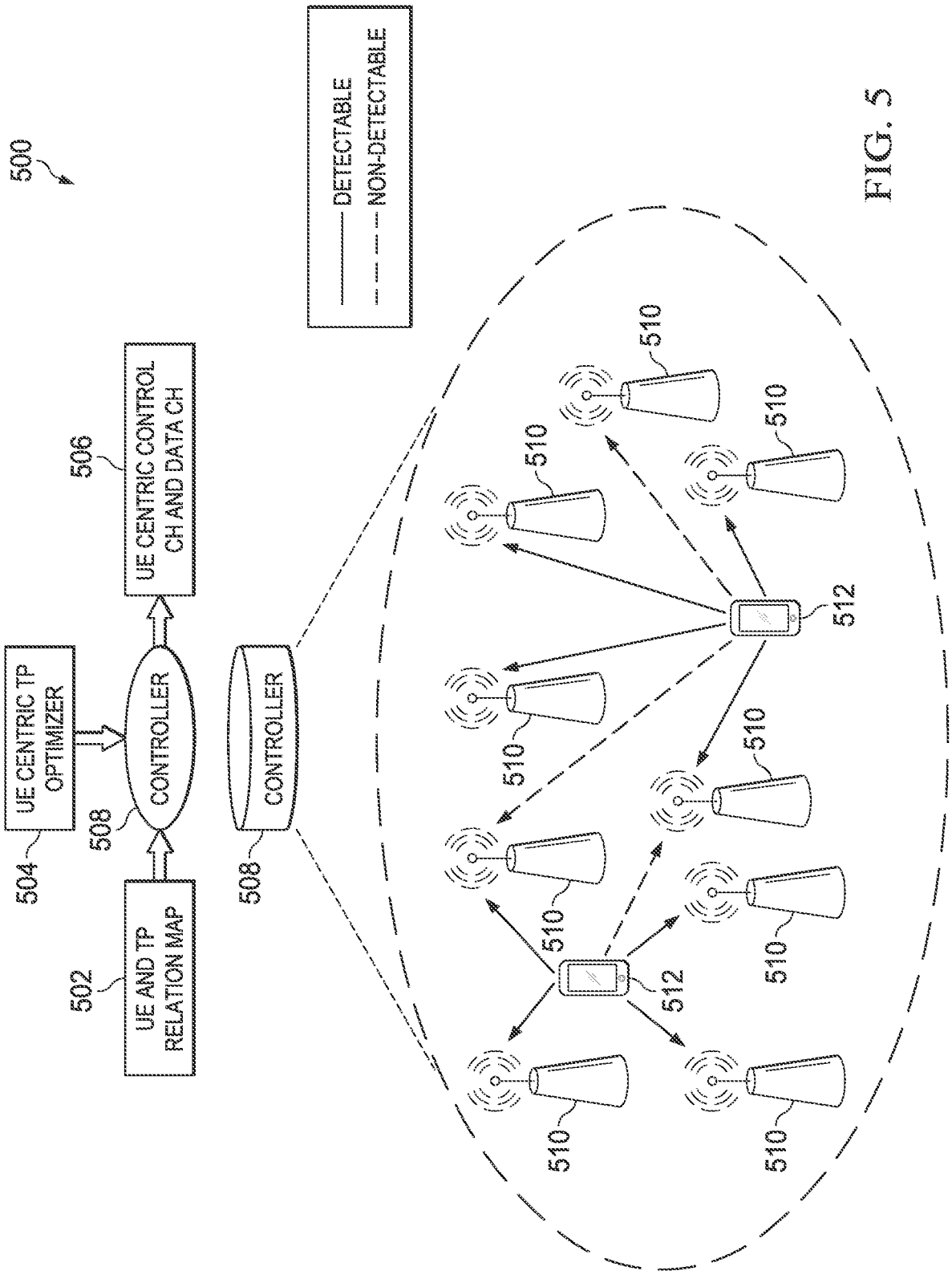
500
UE AND TP RELATION MAP
502
UE CENTRIC TP OPTIMIZER
504
CONTROLLER
508
UE CENTRIC CONTROL CH AND DATA CH
506
CONTROLLER
508
DETECTABLE
NON-DETECTABLE
510
512

FIG. 5

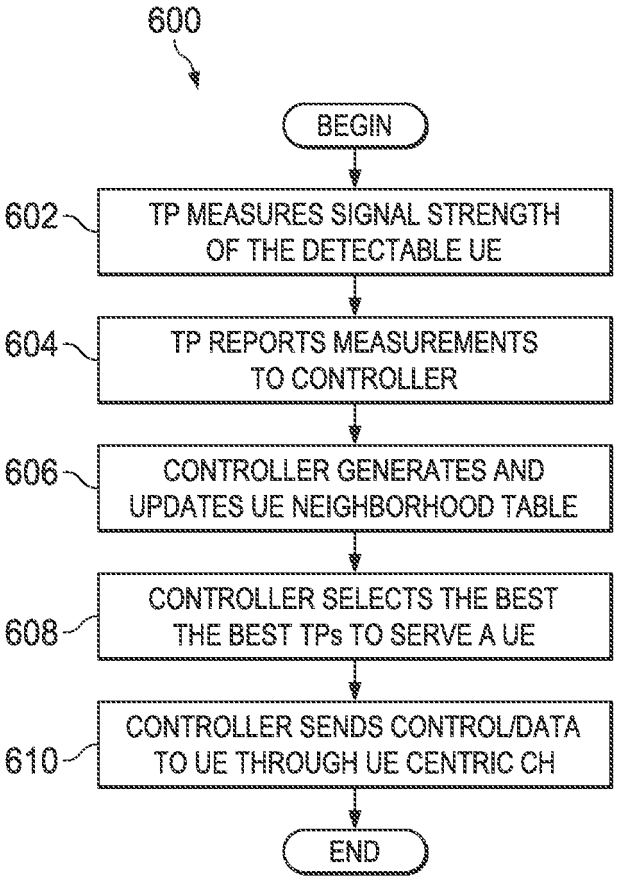
600
BEGIN
602
TP MEASURES SIGNAL STRENGTH OF THE DETECTABLE UE
604
TP REPORTS MEASUREMENTS TO CONTROLLER
606
CONTROLLER GENERATES AND UPDATES UE NEIGHBORHOOD TABLE
608
CONTROLLER SELECTS THE BEST THE BEST TPs TO SERVE A UE
610
CONTROLLER SENDS CONTROL/DATA TO UE THROUGH UE CENTRIC CH
END

FIG. 6

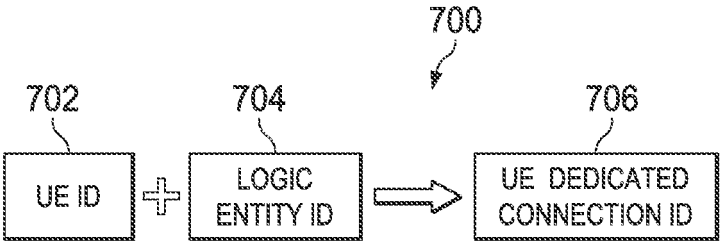
700
702
704
706
UE ID
LOGIC ENTITY ID
UE DEDICATED CONNECTION ID

FIG. 7

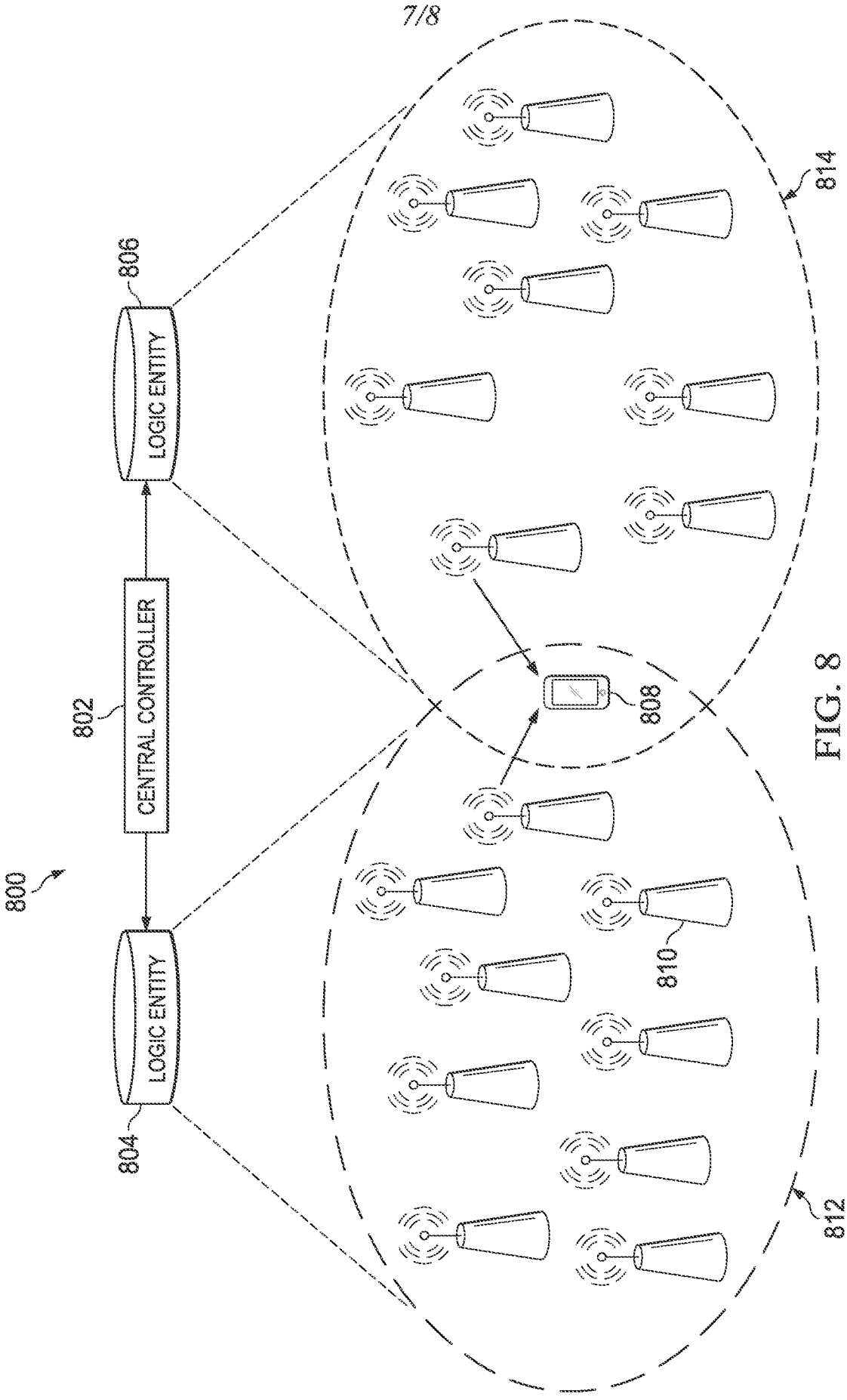
800
802
CENTRAL CONTROLLER
804
LOGIC ENTITY
806
LOGIC ENTITY
808
810
812
814

FIG. 8

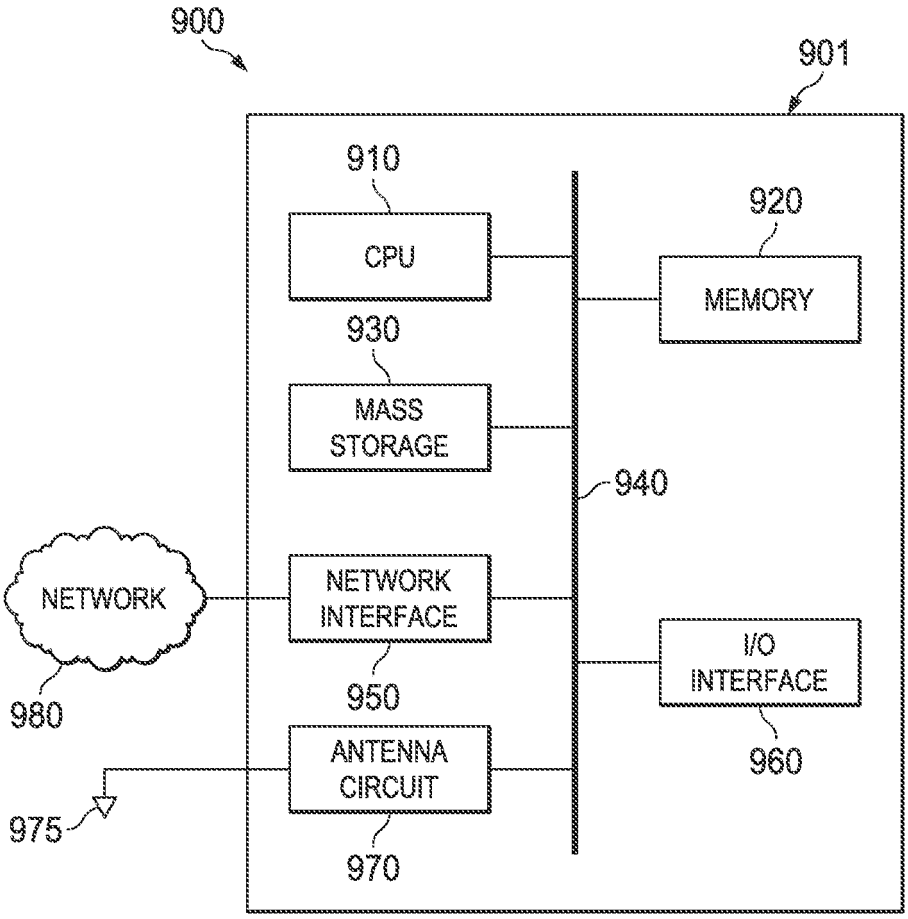
900
901
910
CPU
920
MEMORY
930
MASS STORAGE
940
NETWORK
NETWORK INTERFACE
I/O INTERFACE
950
980
ANTENNA CIRCUIT
960
975
970

FIG. 9