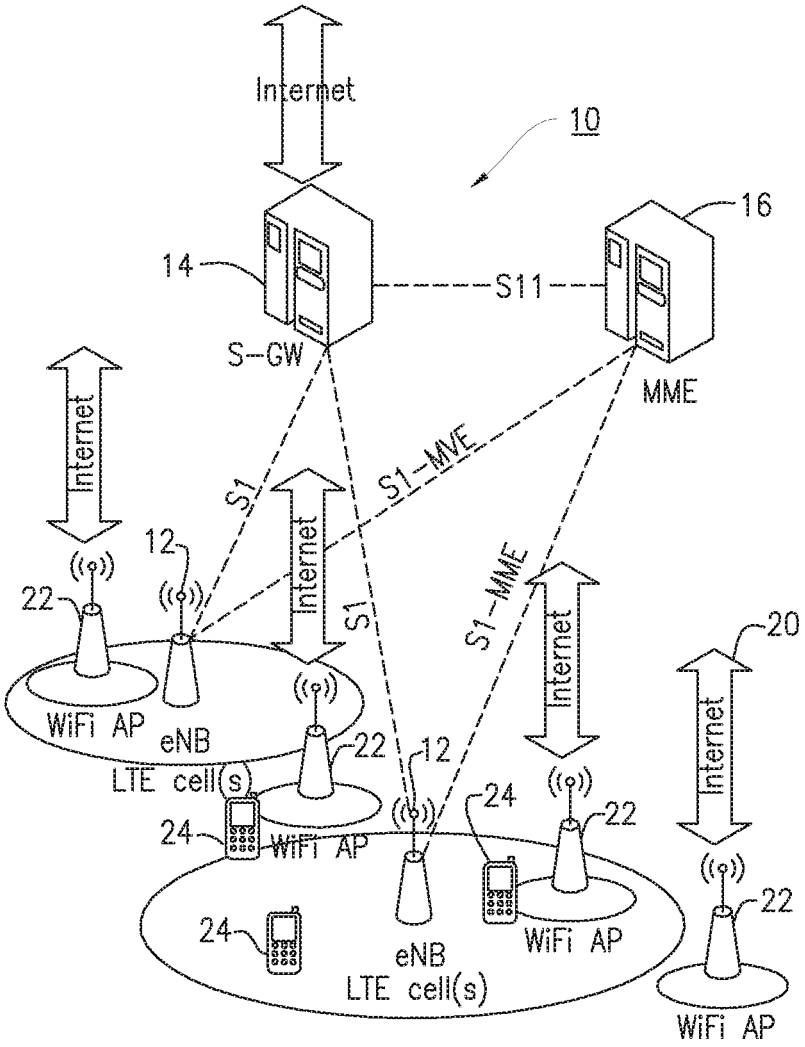

(Prior Art)

FIG. 1

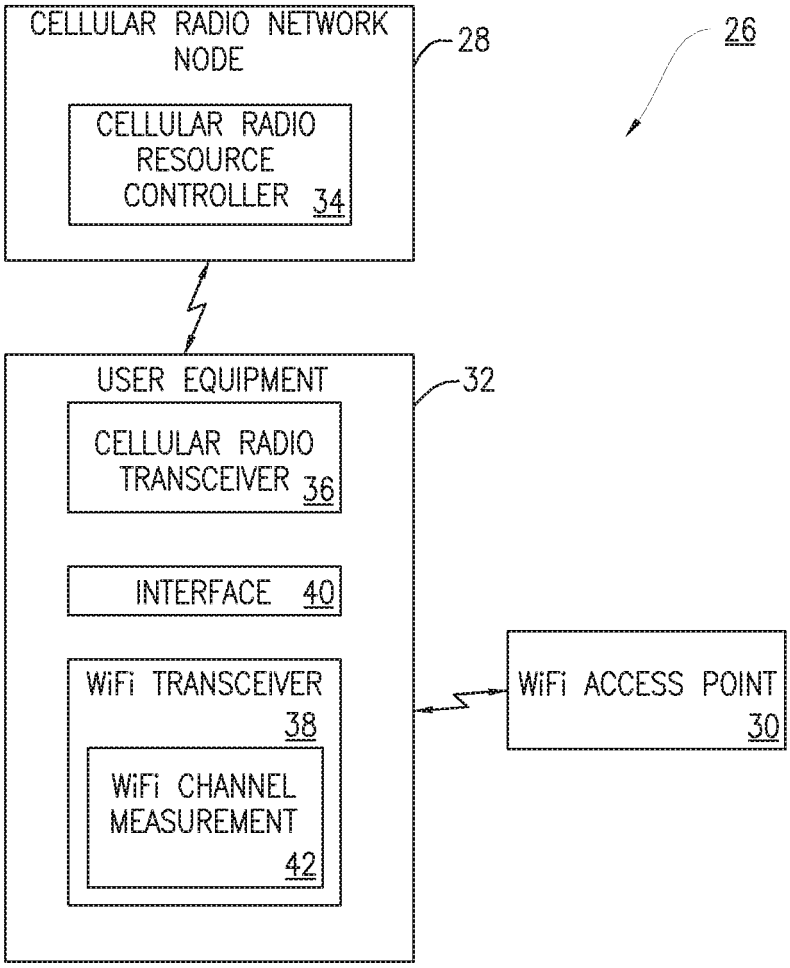
CELLULAR RADIO NETWORK NODE
28
26
CELLULAR RADIO RESOURCE CONTROLLER 34
USER EQUIPMENT
32
CELLULAR RADIO TRANSCEIVER 36
INTERFACE 40
WiFi TRANSCEIVER 38
WiFi CHANNEL MEASUREMENT 42
WiFi ACCESS POINT 30

FIG. 2

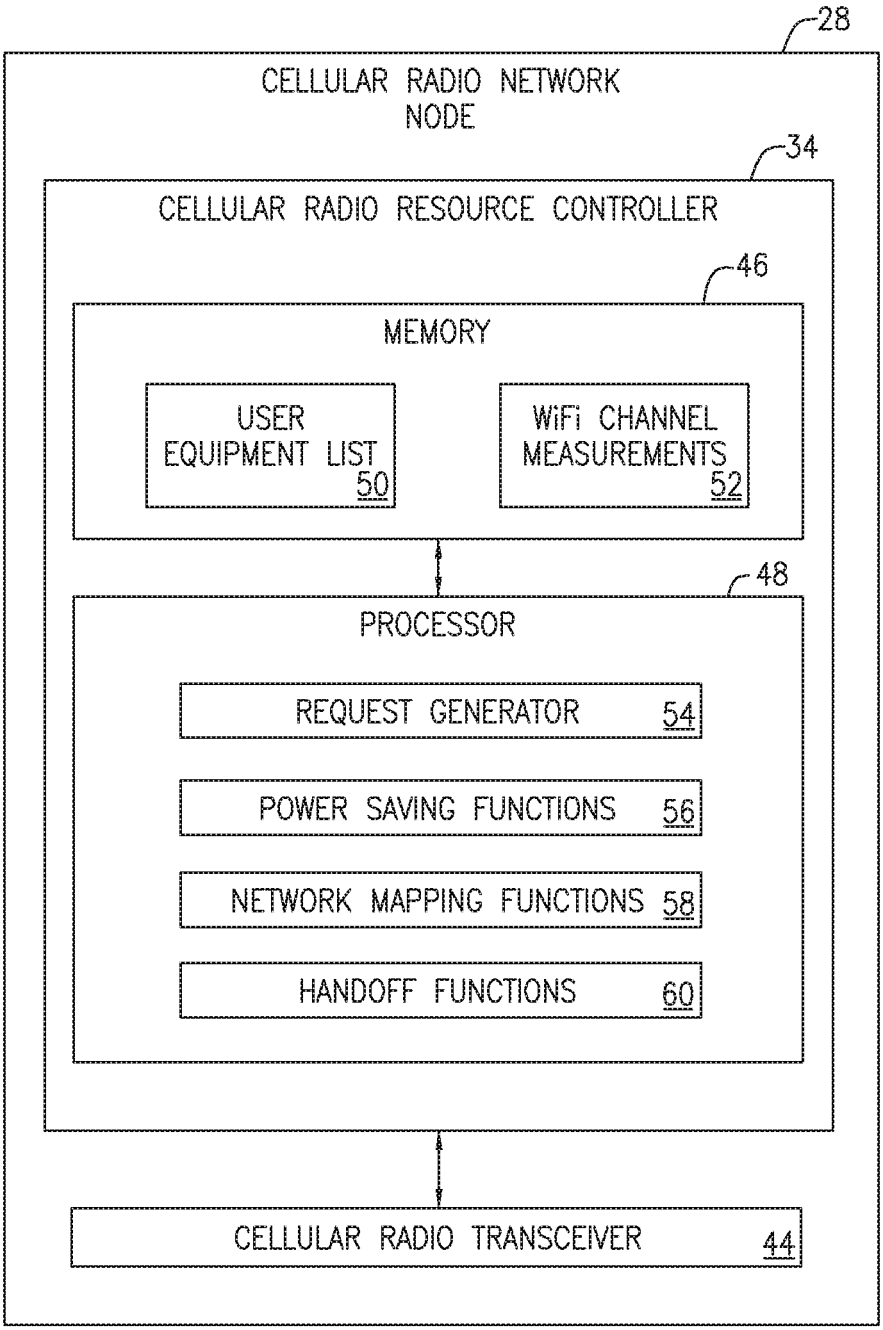
28
CELLULAR RADIO NETWORK NODE
34
CELLULAR RADIO RESOURCE CONTROLLER
46
MEMORY
USER EQUIPMENT LIST 50
WiFi CHANNEL MEASUREMENTS 52
48
PROCESSOR
REQUEST GENERATOR 54
POWER SAVING FUNCTIONS 56
NETWORK MAPPING FUNCTIONS 58
HANDOFF FUNCTIONS 60
CELLULAR RADIO TRANSCEIVER 44

FIG. 3

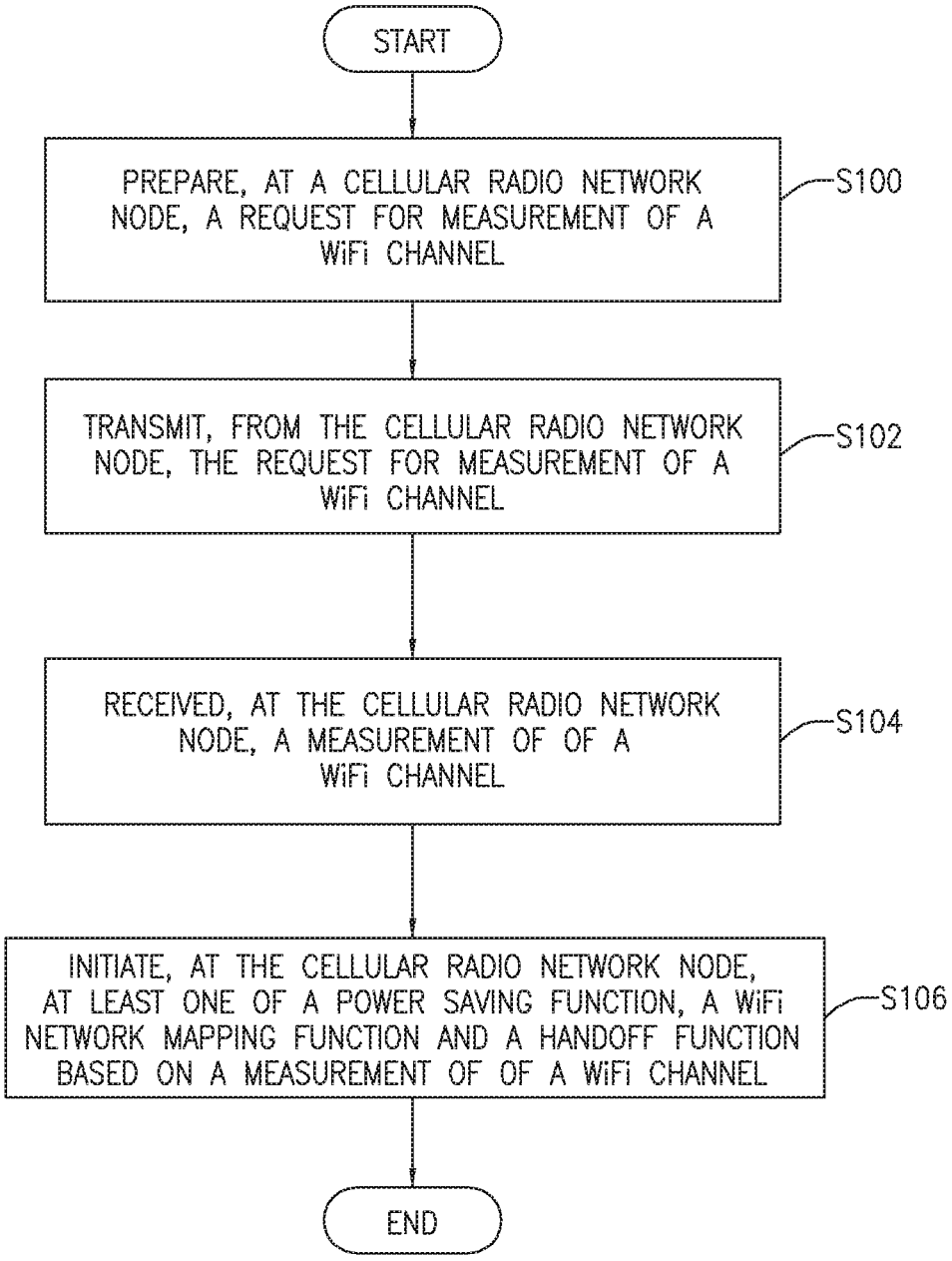
START
PREPARE, AT A CELLULAR RADIO NETWORK NODE, A REQUEST FOR MEASUREMENT OF A WiFi CHANNEL
S100
TRANSMIT, FROM THE CELLULAR RADIO NETWORK NODE, THE REQUEST FOR MEASUREMENT OF A WiFi CHANNEL
S102
RECEIVED, AT THE CELLULAR RADIO NETWORK NODE, A MEASUREMENT OF OF A WiFi CHANNEL
S104
INITIATE, AT THE CELLULAR RADIO NETWORK NODE, AT LEAST ONE OF A POWER SAVING FUNCTION, A WiFi NETWORK MAPPING FUNCTION AND A HANDOFF FUNCTION BASED ON A MEASUREMENT OF OF A WiFi CHANNEL
S106
END

FIG. 4

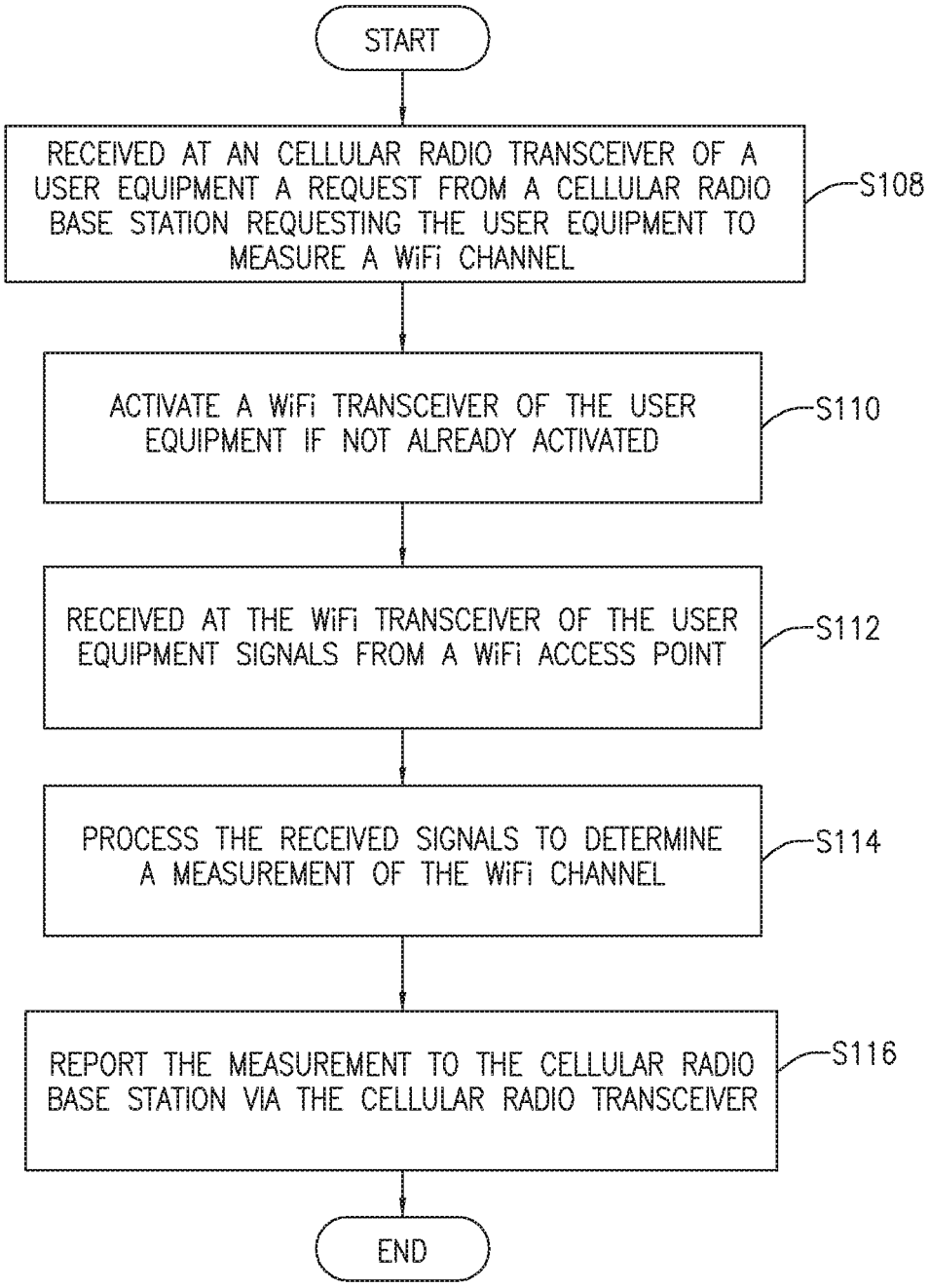
START
RECEIVED AT AN CELLULAR RADIO TRANSCEIVER OF A USER EQUIPMENT A REQUEST FROM A CELLULAR RADIO BASE STATION REQUESTING THE USER EQUIPMENT TO MEASURE A WiFi CHANNEL
S108
ACTIVATE A WiFi TRANSCEIVER OF THE USER EQUIPMENT IF NOT ALREADY ACTIVATED
S110
RECEIVED AT THE WiFi TRANSCEIVER OF THE USER EQUIPMENT SIGNALS FROM A WiFi ACCESS POINT
S112
PROCESS THE RECEIVED SIGNALS TO DETERMINE A MEASUREMENT OF THE WiFi CHANNEL
S114
REPORT THE MEASUREMENT TO THE CELLULAR RADIO BASE STATION VIA THE CELLULAR RADIO TRANSCEIVER
S116
END

FIG. 5