FIG.1

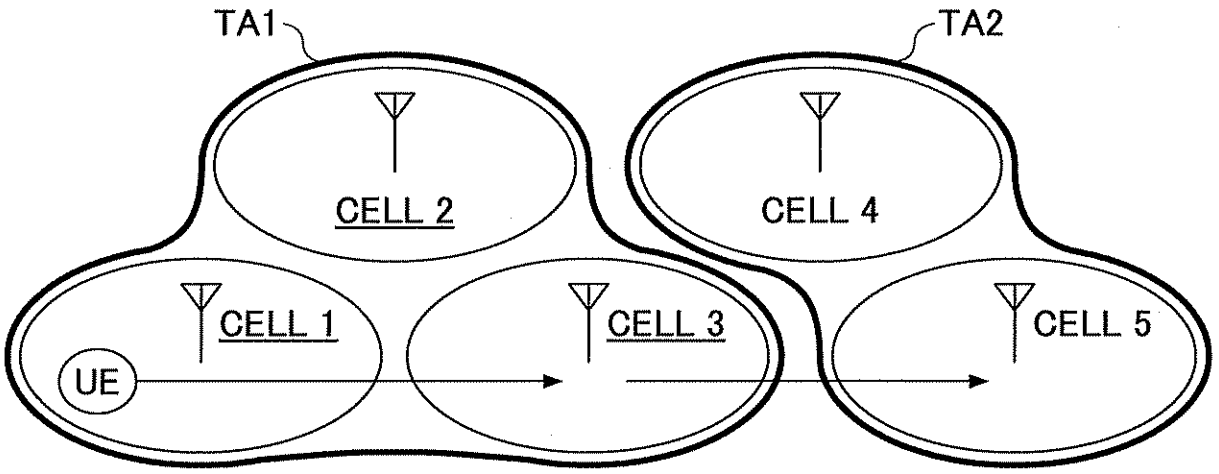

TA1
TA2
CELL 2
CELL 4
CELL 1
CELL 3
CELL 5
UE

FIG.2

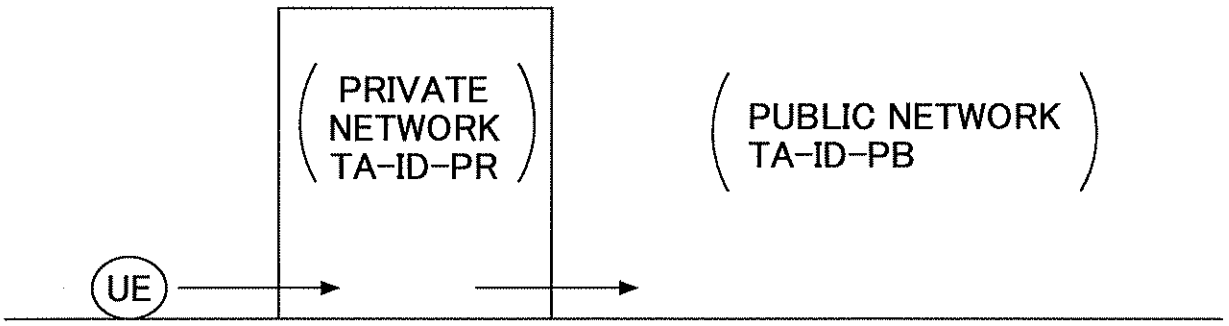

PRIVATE
NETWORK
TA-ID-PR
PUBLIC NETWORK
TA-ID-PB
UE

FIG.3

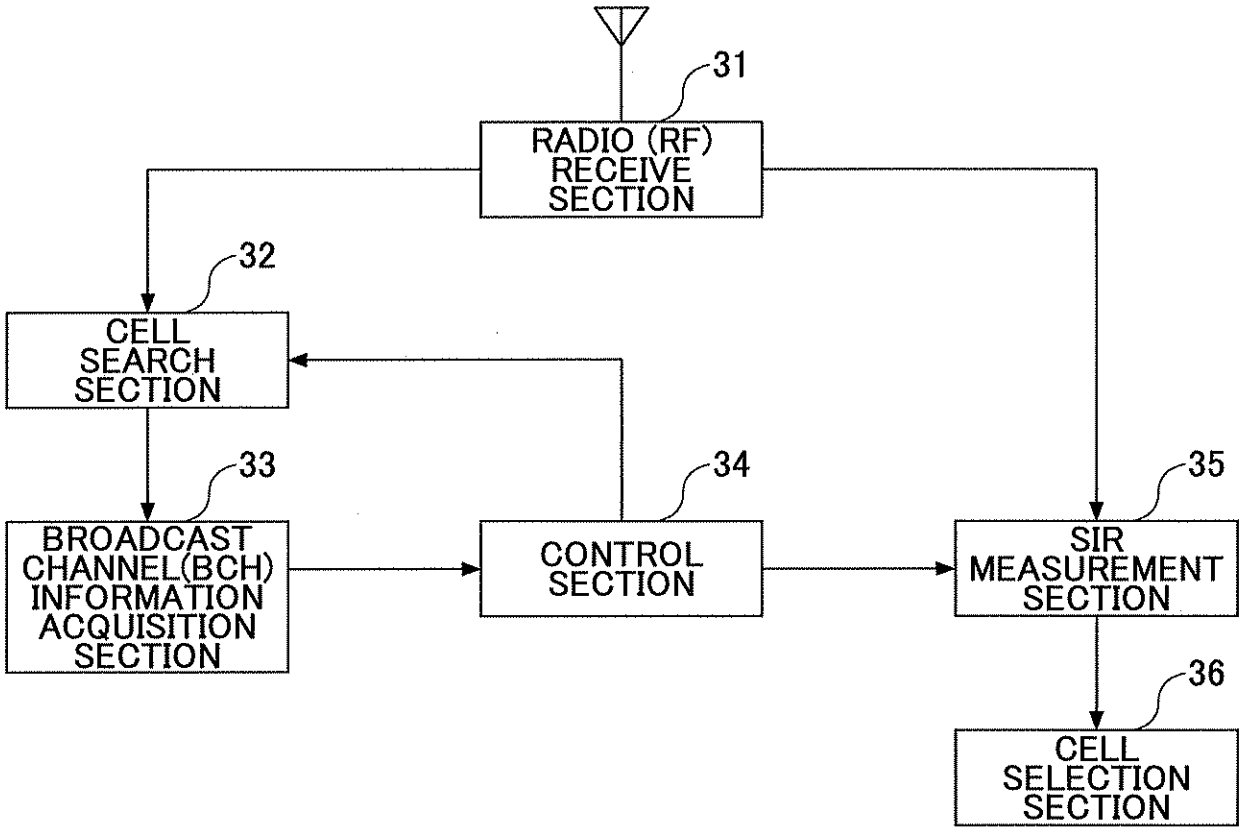

31
RADIO (RF) RECEIVE SECTION
32
CELL SEARCH SECTION
33
BROADCAST CHANNEL(BCH) INFORMATION ACQUISITION SECTION
34
CONTROL SECTION
35
SIR MEASUREMENT SECTION
36
CELL SELECTION SECTION

FIG.4

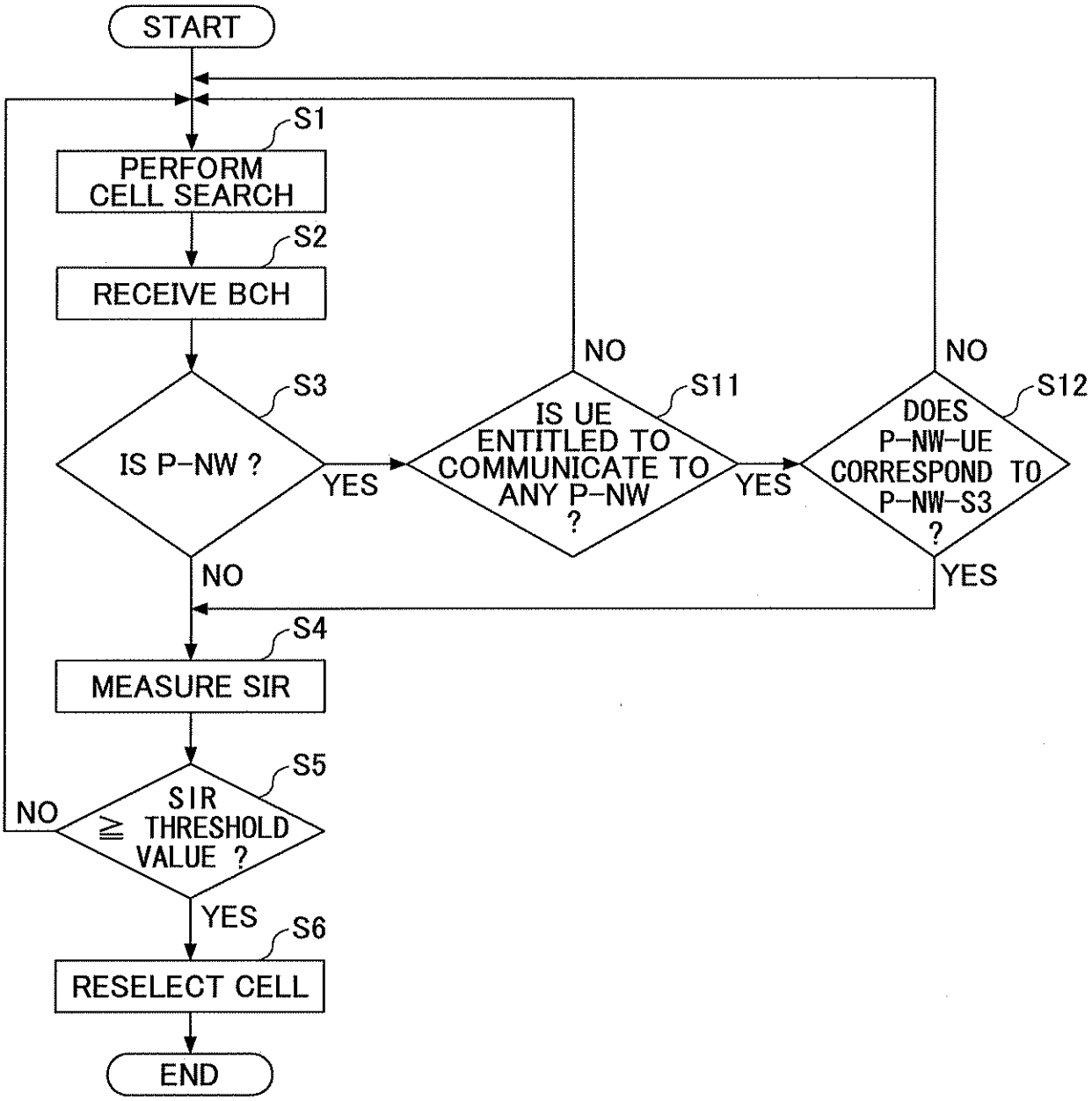

START
S1
PERFORM CELL SEARCH
S2
RECEIVE BCH
S3
IS P-NW ?
YES
NO
S11
IS UE ENTITLED TO COMMUNICATE TO ANY P-NW ?
YES
NO
S12
DOES P-NW-UE CORRESPOND TO P-NW-S3 ?
YES
NO
S4
MEASURE SIR
S5
SIR ≧ THRESHOLD VALUE ?
NO
YES
S6
RESELECT CELL
END

FIG.5

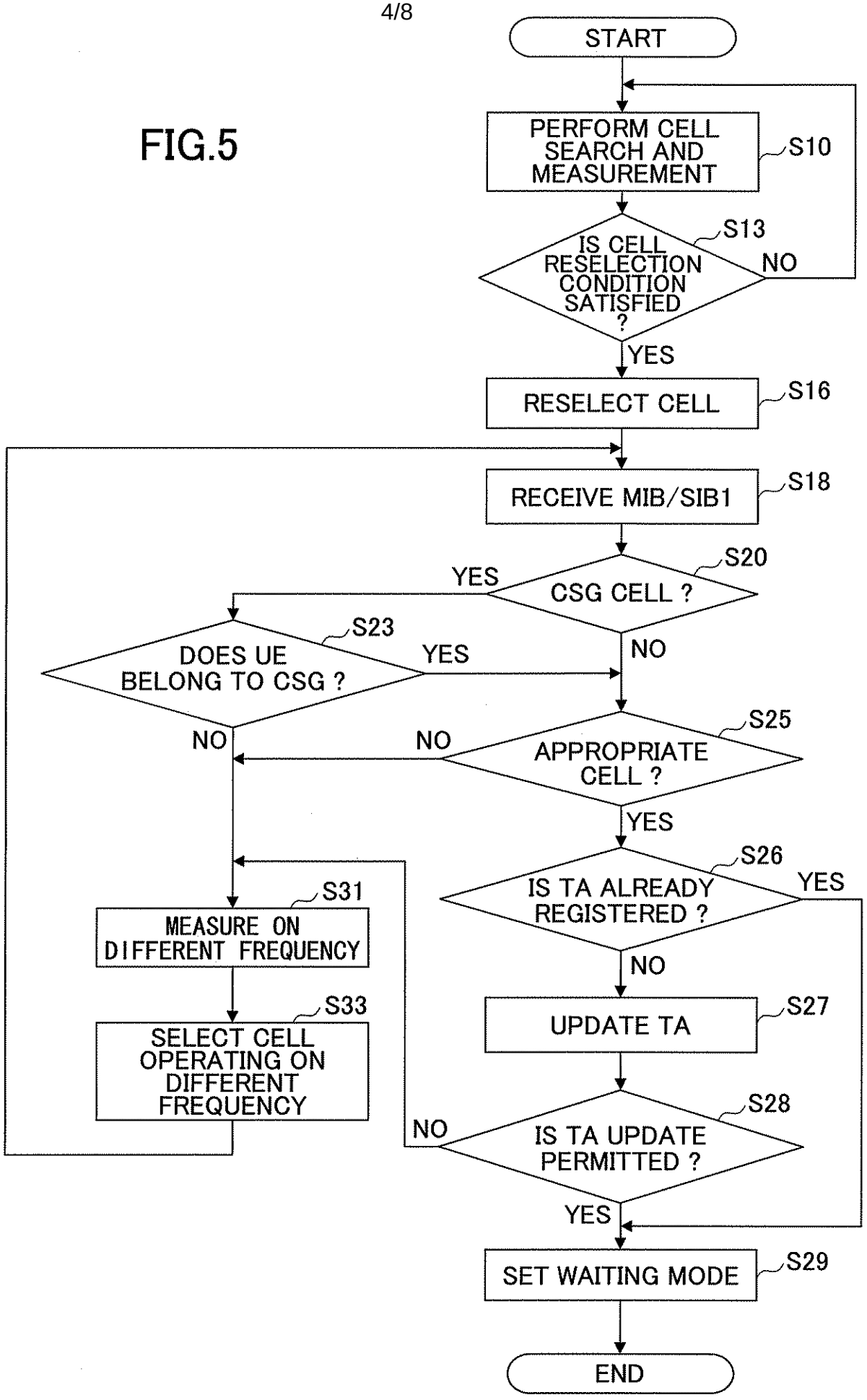

START
PERFORM CELL SEARCH AND MEASUREMENT
S10
IS CELL RESELECTION CONDITION SATISFIED ?
S13
NO
YES
RESELECT CELL
S16
RECEIVE MIB/SIB1
S18
CSG CELL ?
S20
YES
NO
DOES UE BELONG TO CSG ?
S23
YES
NO
APPROPRIATE CELL ?
S25
NO
YES
IS TA ALREADY REGISTERED ?
S26
YES
NO
MEASURE ON DIFFERENT FREQUENCY
S31
SELECT CELL OPERATING ON DIFFERENT FREQUENCY
S33
UPDATE TA
S27
IS TA UPDATE PERMITTED ?
S28
NO
YES
SET WAITING MODE
S29
END

FIG.6

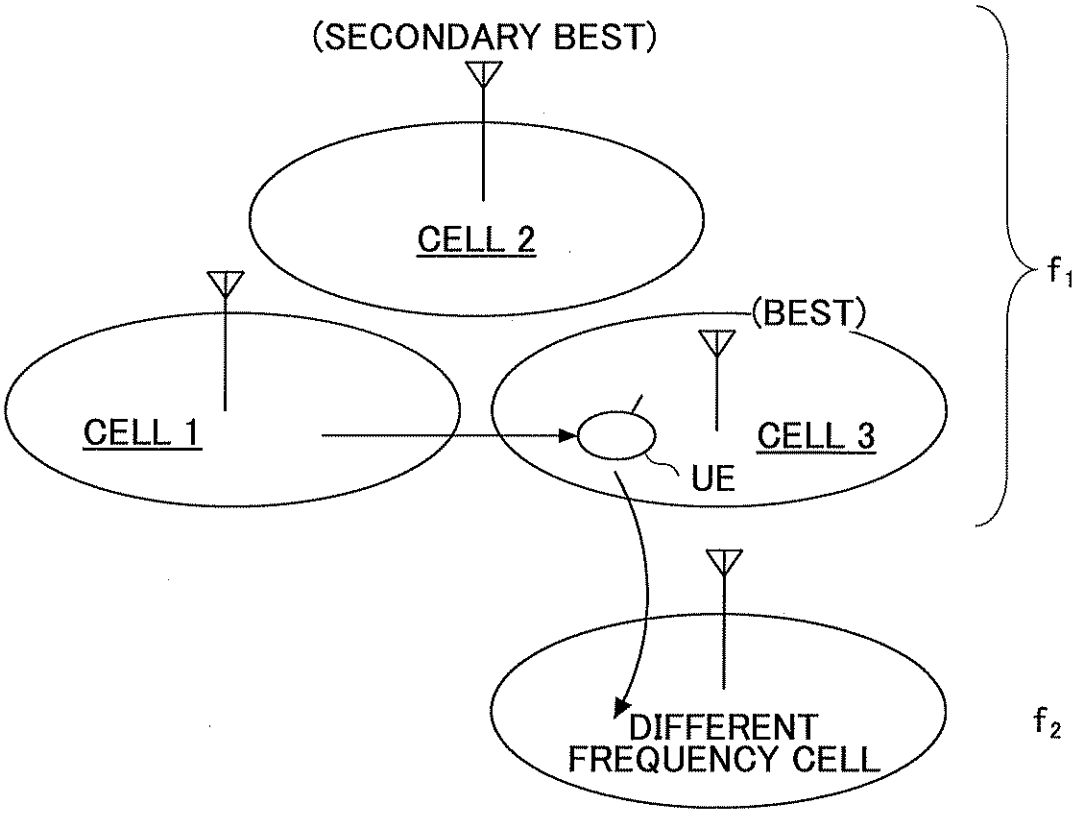

(SECONDARY BEST)
CELL 2
CELL 1
(BEST)
CELL 3
UE
DIFFERENT
FREQUENCY CELL
f1
f2

FIG.7

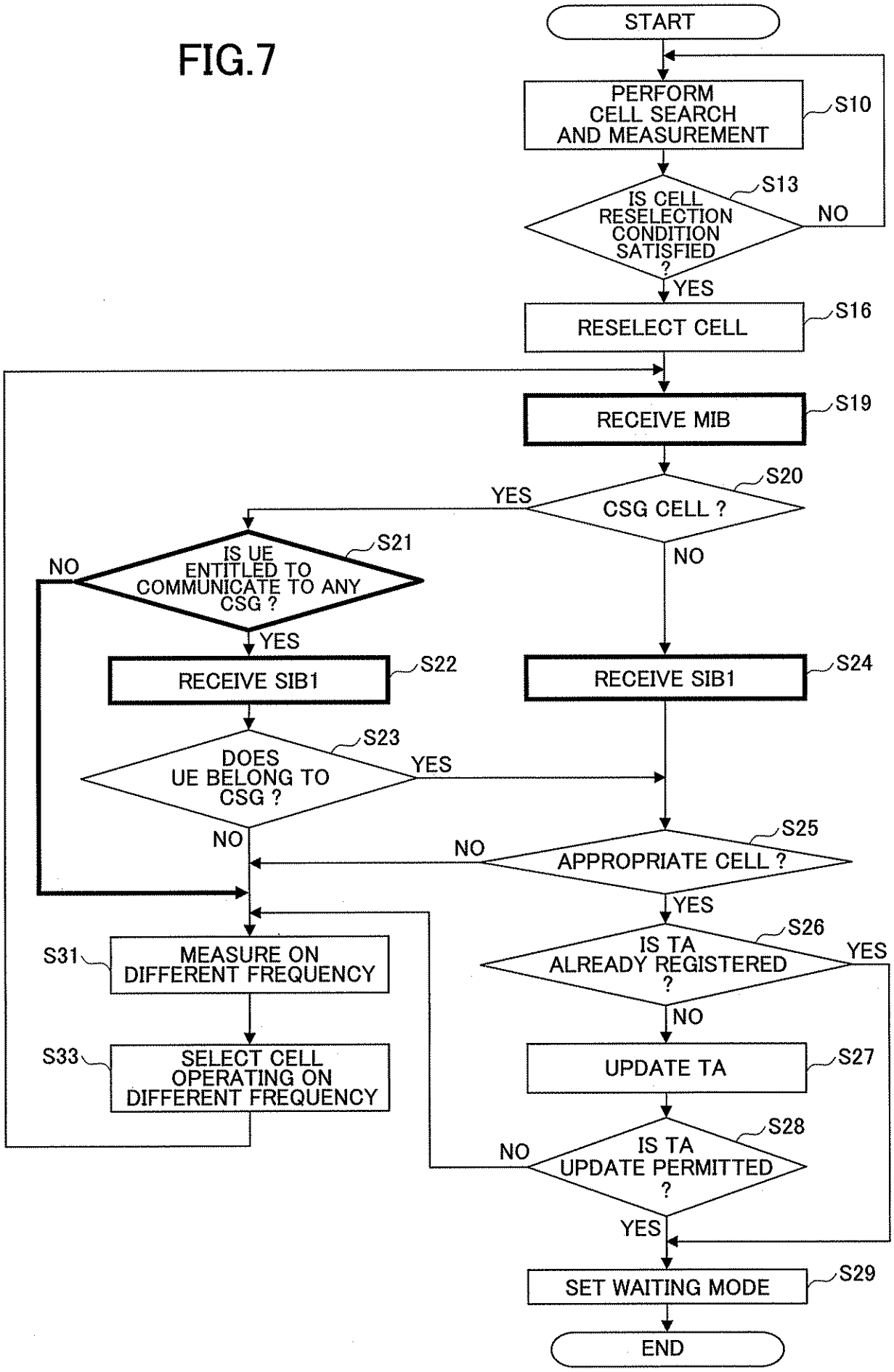

START
PERFORM CELL SEARCH AND MEASUREMENT
S10
IS CELL RESELECTION CONDITION SATISFIED ?
S13
NO
YES
RESELECT CELL
S16
RECEIVE MIB
S19
CSG CELL ?
S20
YES
NO
IS UE ENTITLED TO COMMUNICATE TO ANY CSG ?
S21
NO
YES
RECEIVE SIB1
S22
RECEIVE SIB1
S24
DOES UE BELONG TO CSG ?
S23
YES
NO
APPROPRIATE CELL ?
S25
NO
YES
MEASURE ON DIFFERENT FREQUENCY
S31
IS TA ALREADY REGISTERED ?
S26
YES
NO
SELECT CELL OPERATING ON DIFFERENT FREQUENCY
S33
UPDATE TA
S27
IS TA UPDATE PERMITTED ?
S28
NO
YES
SET WAITING MODE
S29
END

FIG.8

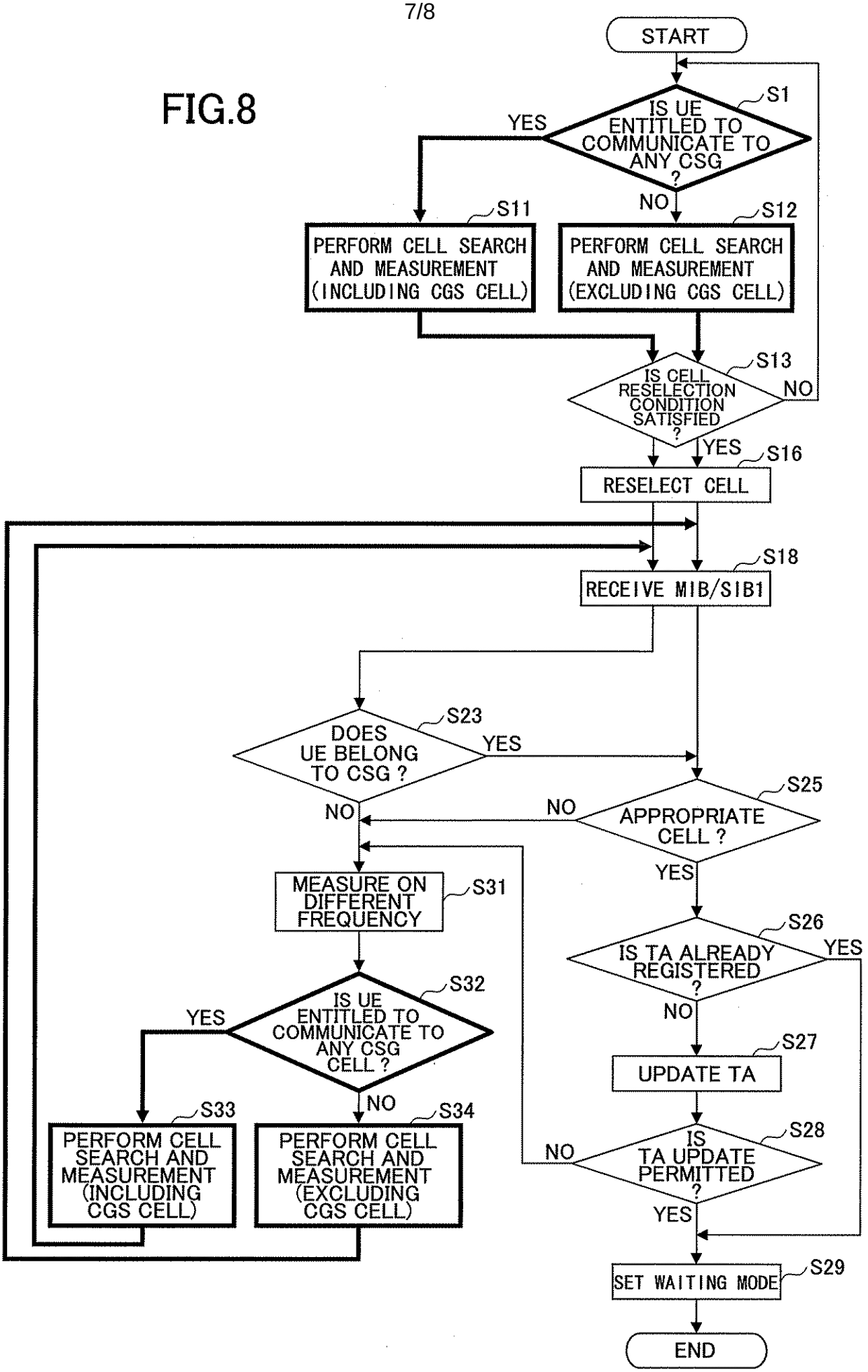
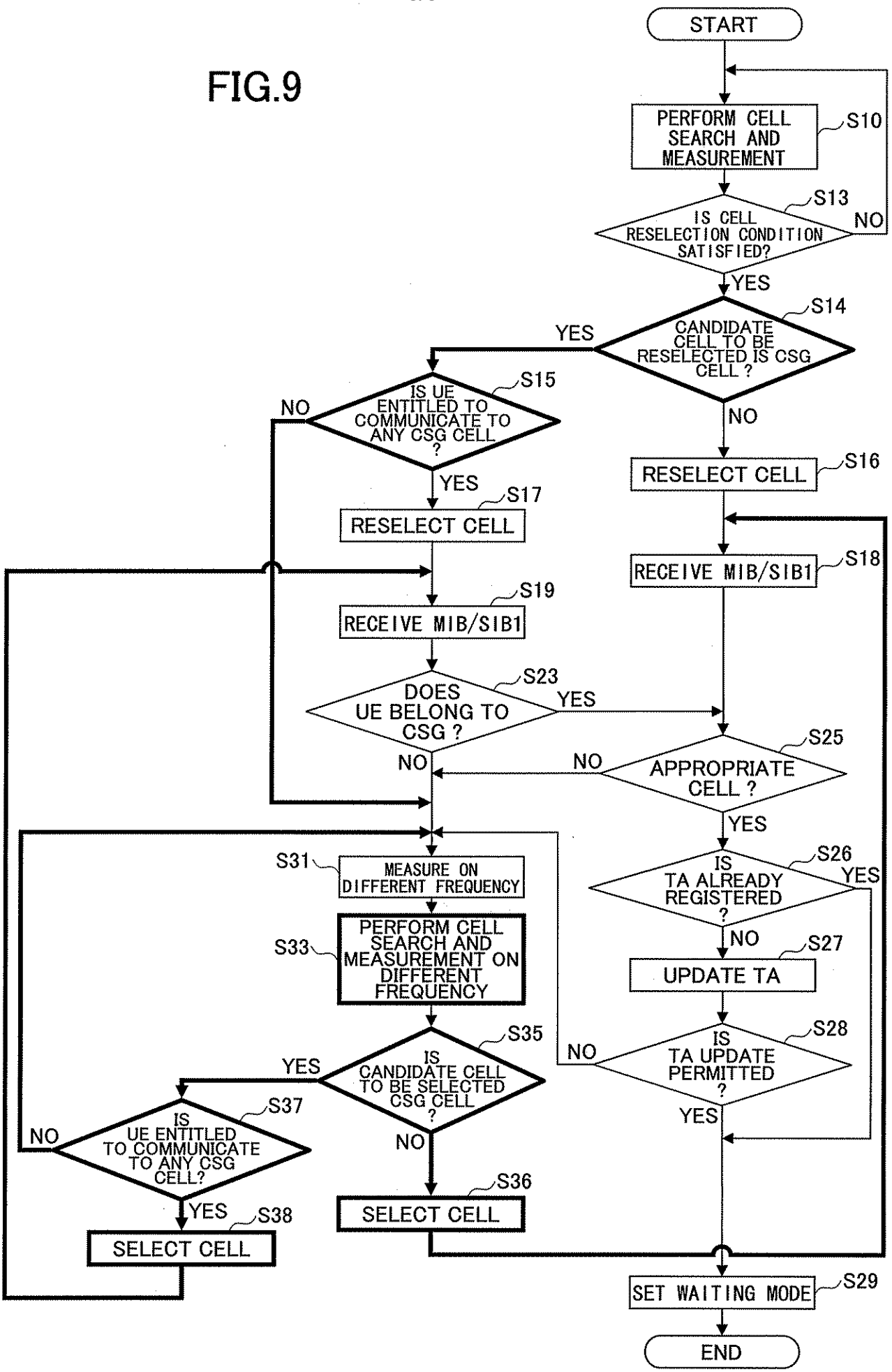

START
S1
IS UE ENTITLED TO COMMUNICATE TO ANY CSG ?
YES
NO
S11
PERFORM CELL SEARCH AND MEASUREMENT (INCLUDING CGS CELL)
S12
PERFORM CELL SEARCH AND MEASUREMENT (EXCLUDING CGS CELL)
S13
IS CELL RESELECTION CONDITION SATISFIED ?
NO
YES
S16
RESELECT CELL
S18
RECEIVE MIB/SIB1
S23
DOES UE BELONG TO CSG ?
YES
NO
S25
APPROPRIATE CELL ?
NO
YES
S26
IS TA ALREADY REGISTERED ?
YES
NO
S27
UPDATE TA
S28
IS TA UPDATE PERMITTED ?
NO
YES
S29
SET WAITING MODE
END
S31
MEASURE ON DIFFERENT FREQUENCY
S32
IS UE ENTITLED TO COMMUNICATE TO ANY CSG CELL ?
YES
NO
S33
PERFORM CELL SEARCH AND MEASUREMENT (INCLUDING CGS CELL)
S34
PERFORM CELL SEARCH AND MEASUREMENT (EXCLUDING CGS CELL)

FIG.9


START
PERFORM CELL SEARCH AND MEASUREMENT
S10
IS CELL RESELECTION CONDITION SATISFIED?
S13
NO
YES
CANDIDATE CELL TO BE RESELECTED IS CSG CELL ?
S14
YES
NO
IS UE ENTITLED TO COMMUNICATE TO ANY CSG CELL ?
S15
NO
YES
RESELECT CELL
S17
RESELECT CELL
S16
RECEIVE MIB/SIB1
S18
RECEIVE MIB/SIB1
S19
DOES UE BELONG TO CSG ?
S23
YES
NO
APPROPRIATE CELL ?
S25
NO
YES
IS TA ALREADY REGISTERED ?
S26
YES
NO
UPDATE TA
S27
IS TA UPDATE PERMITTED ?
S28
NO
YES
MEASURE ON DIFFERENT FREQUENCY
S31
PERFORM CELL SEARCH AND MEASUREMENT ON DIFFERENT FREQUENCY
S33
IS CANDIDATE CELL TO BE SELECTED CSG CELL ?
S35
YES
NO
IS UE ENTITLED TO COMMUNICATE TO ANY CSG CELL?
S37
NO
YES
SELECT CELL
S38
SELECT CELL
S36
SET WAITING MODE
S29
END