FIG.1

SECTION A1: SECTION WHERE COMMUNICATION IS PERFORMED ONLY ON PRIMARY COMPONENT CARRIER (SECTION WHERE MEASUREMENT OF SECONDARY COMPONENT CARRIER IS NOT PERFORMED)

SECTION A2: SECTION WHERE MEASUREMENT OF SECONDARY COMPONENT CARRIER IS PERFORMED WHILE PERFORMING COMMUNICATION ON PRIMARY COMPONENT CARRIER

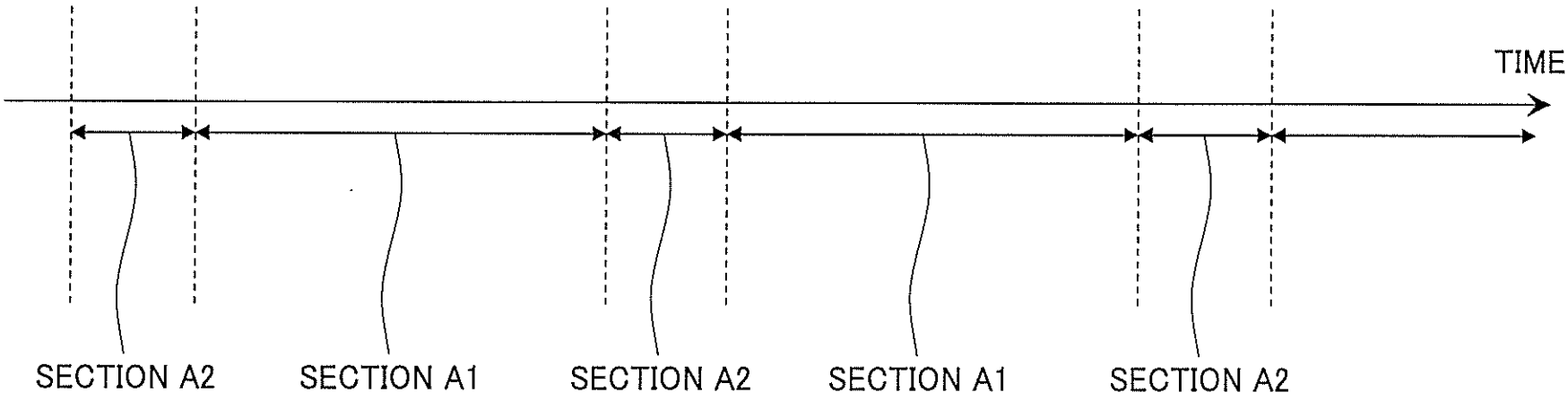
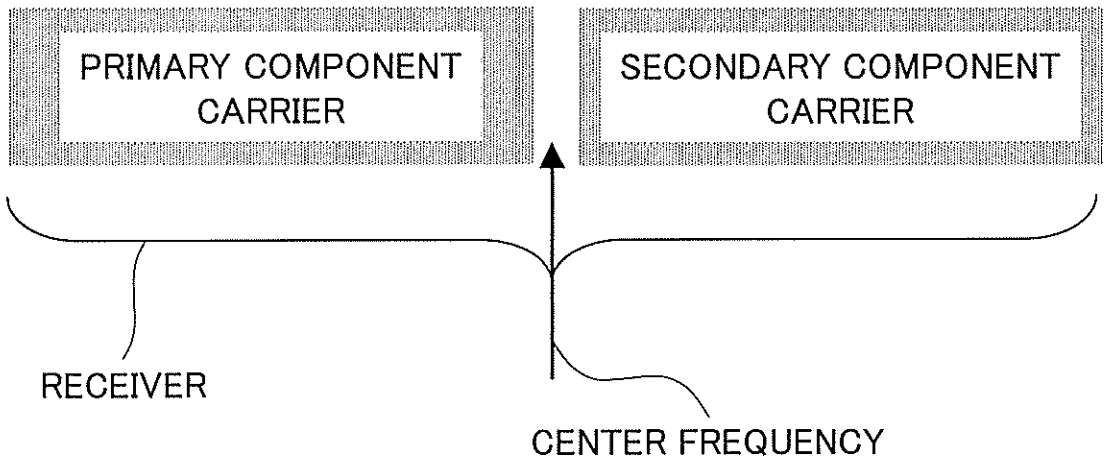


FIG.2



WHEN RECEIVING BOTH OF PRIMARY COMPONENT CARRIER AND SECONDARY COMPONENT CARRIER

FIG.3

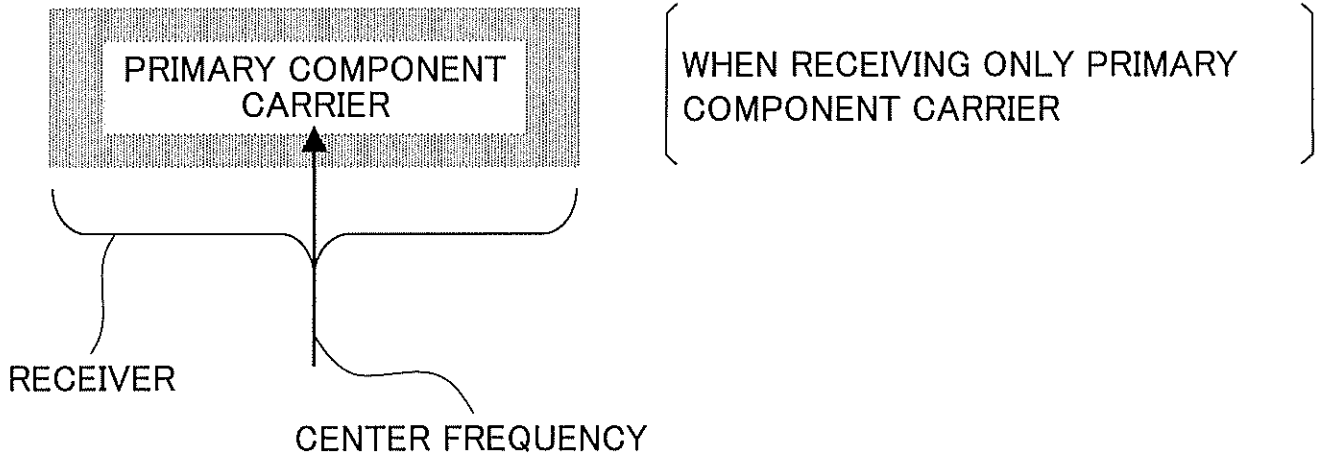

PRIMARY COMPONENT CARRIER
WHEN RECEIVING ONLY PRIMARY COMPONENT CARRIER
RECEIVER
CENTER FREQUENCY

FIG.4

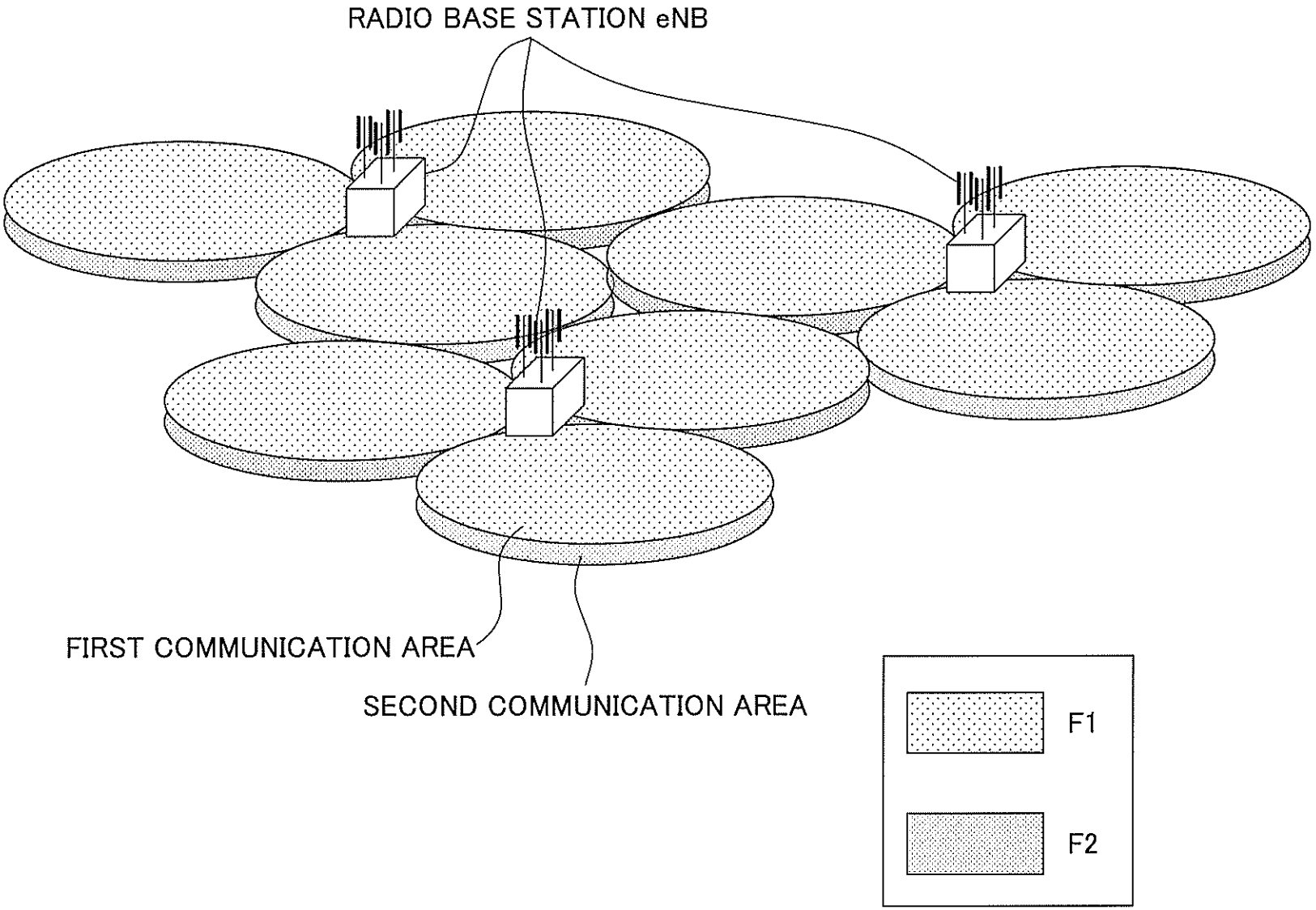
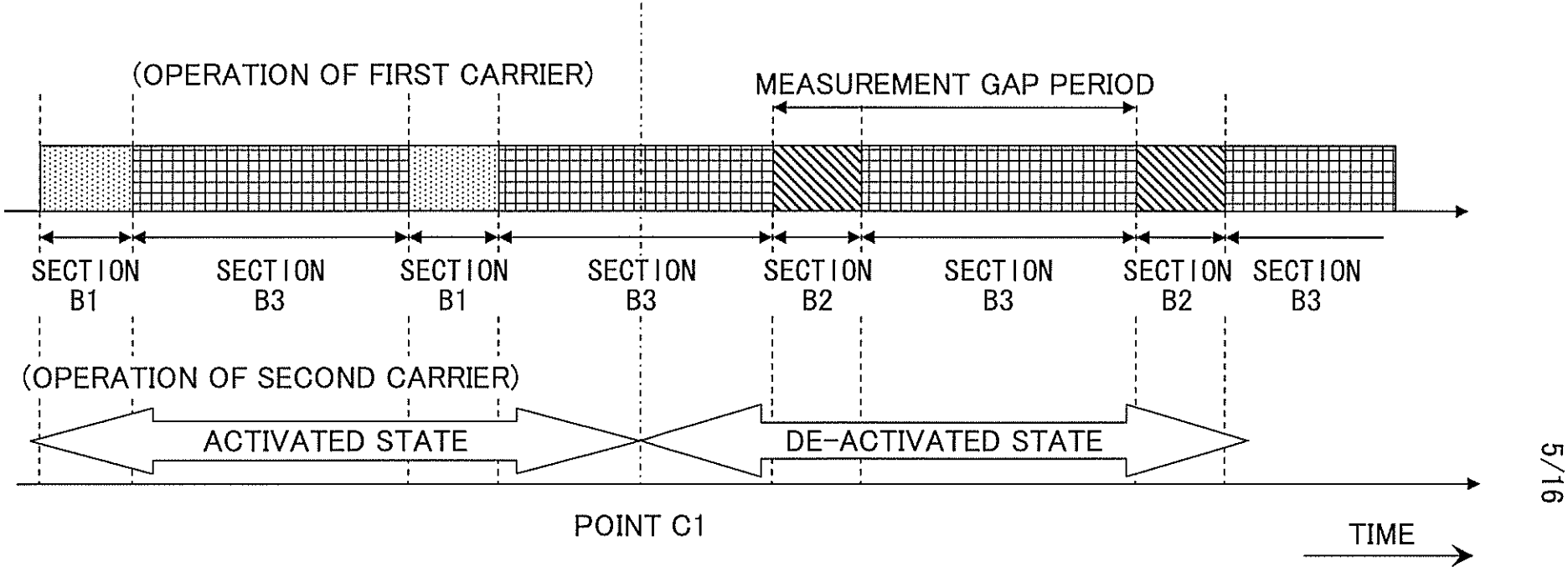

RADIO BASE STATION eNB
FIRST COMMUNICATION AREA
SECOND COMMUNICATION AREA
F1
F2

FIG.5

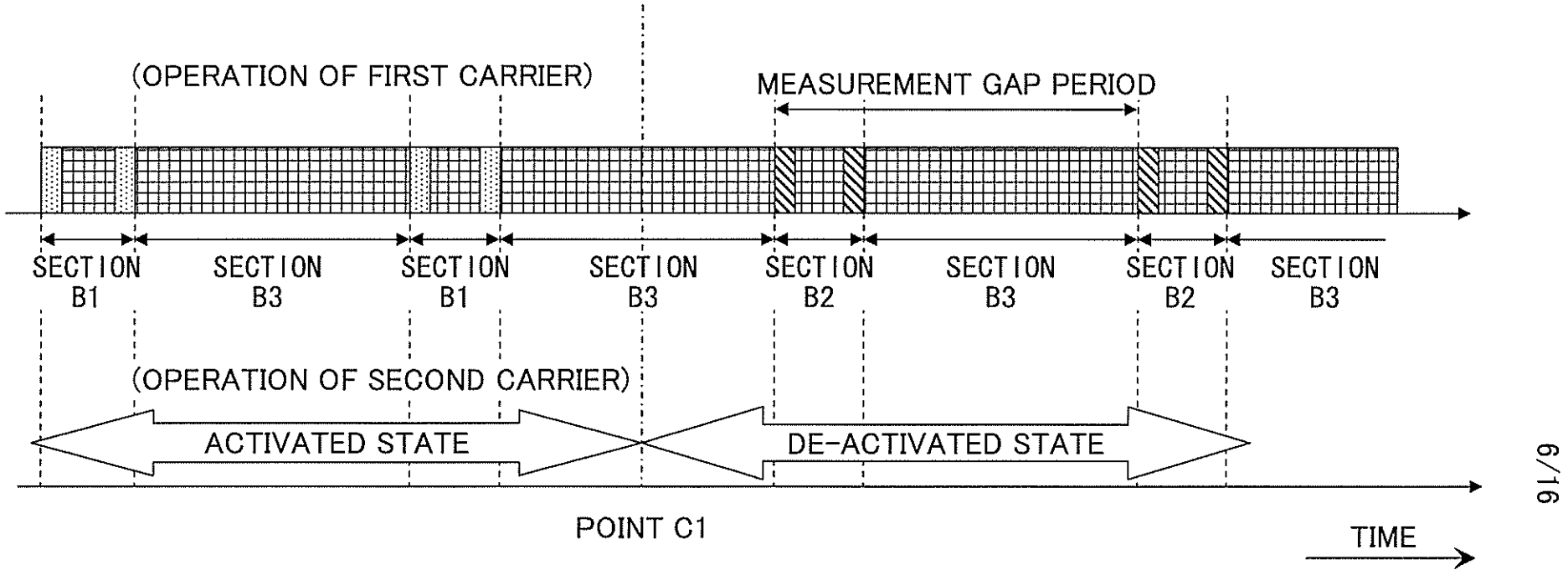


SECTION WHERE MEASUREMENT GAP IS APPLIED

SECTION WHERE MEASUREMENT GAP IS APPLIED, BUT THE MEASUREMENT GAP IS NEGLECTED SINCE SECOND CARRIER IS ACTIVATED

SECTION WHERE MEASUREMENT GAP IS NOT APPLIED

FIG.6



SECTION WHERE MEASUREMENT GAP IS APPLIED

SECTION WHERE MEASUREMENT GAP IS APPLIED, BUT THE MEASUREMENT GAP IS NEGLECTED SINCE SECOND CARRIER IS ACTIVATED

SECTION WHERE MEASUREMENT GAP IS NOT APPLIED

FIG.7

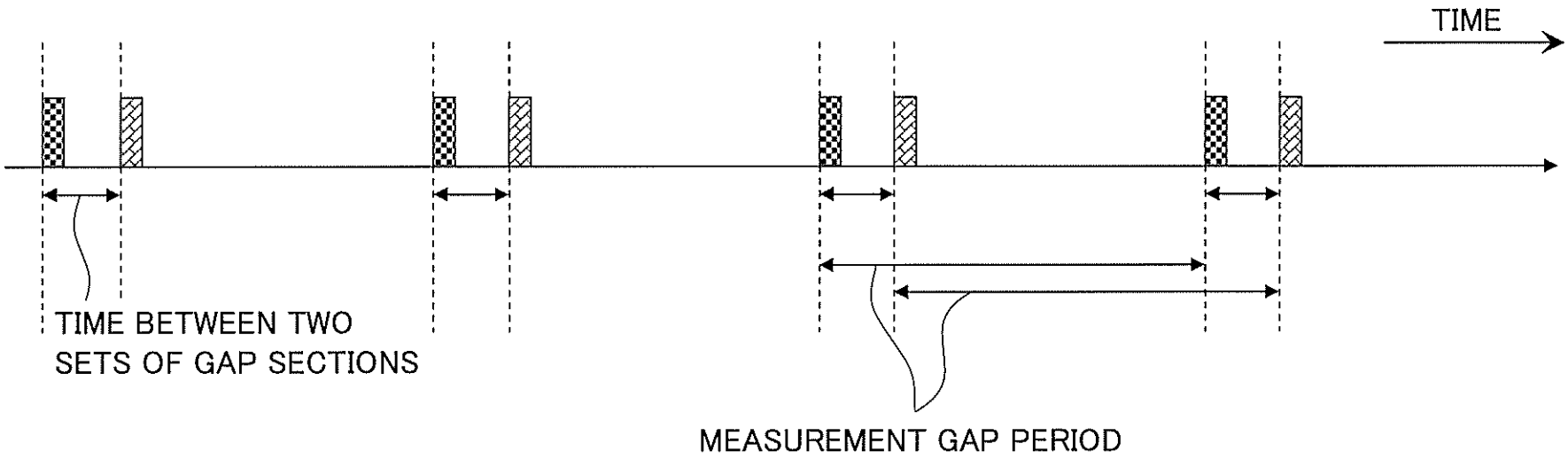

TIME
TIME BETWEEN TWO SETS OF GAP SECTIONS
MEASUREMENT GAP PERIOD
FIRST SET OF GAP SECTIONS IN TWO SETS OF GAP SECTIONS
SECOND SET OF GAP SECTIONS IN TWO SETS OF GAP SECTIONS

FIG.8

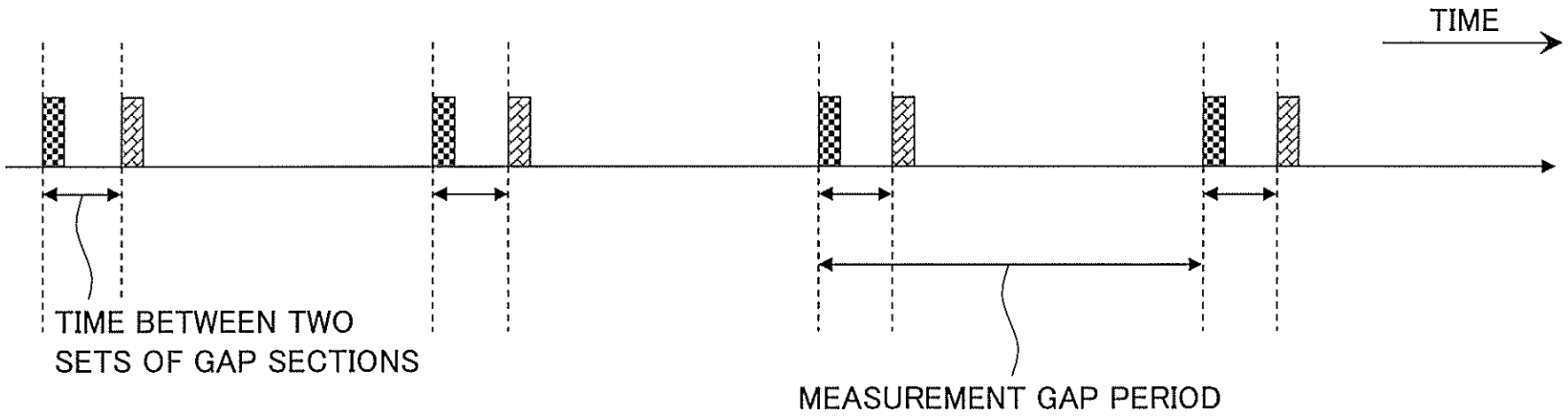

TIME
TIME BETWEEN TWO SETS OF GAP SECTIONS
MEASUREMENT GAP PERIOD
FIRST SET OF GAP SECTIONS IN TWO SETS OF GAP SECTIONS
SECOND SET OF GAP SECTIONS IN TWO SETS OF GAP SECTIONS

FIG.9

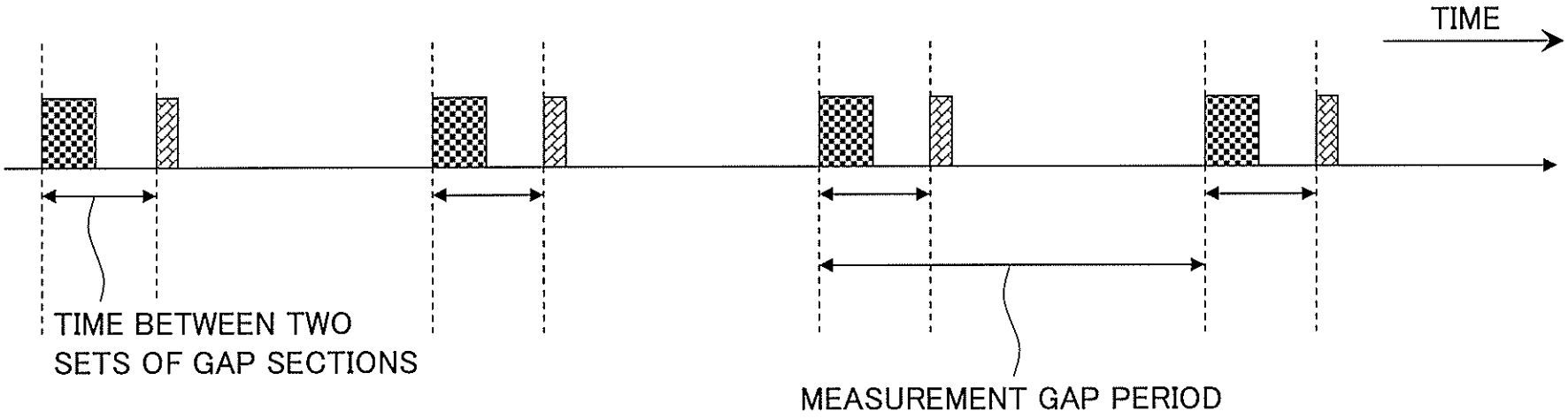

TIME
TIME BETWEEN TWO SETS OF GAP SECTIONS
MEASUREMENT GAP PERIOD
FIRST SET OF GAP SECTIONS IN TWO SETS OF GAP SECTIONS
SECOND SET OF GAP SECTIONS IN TWO SETS OF GAP SECTIONS

FIG.10

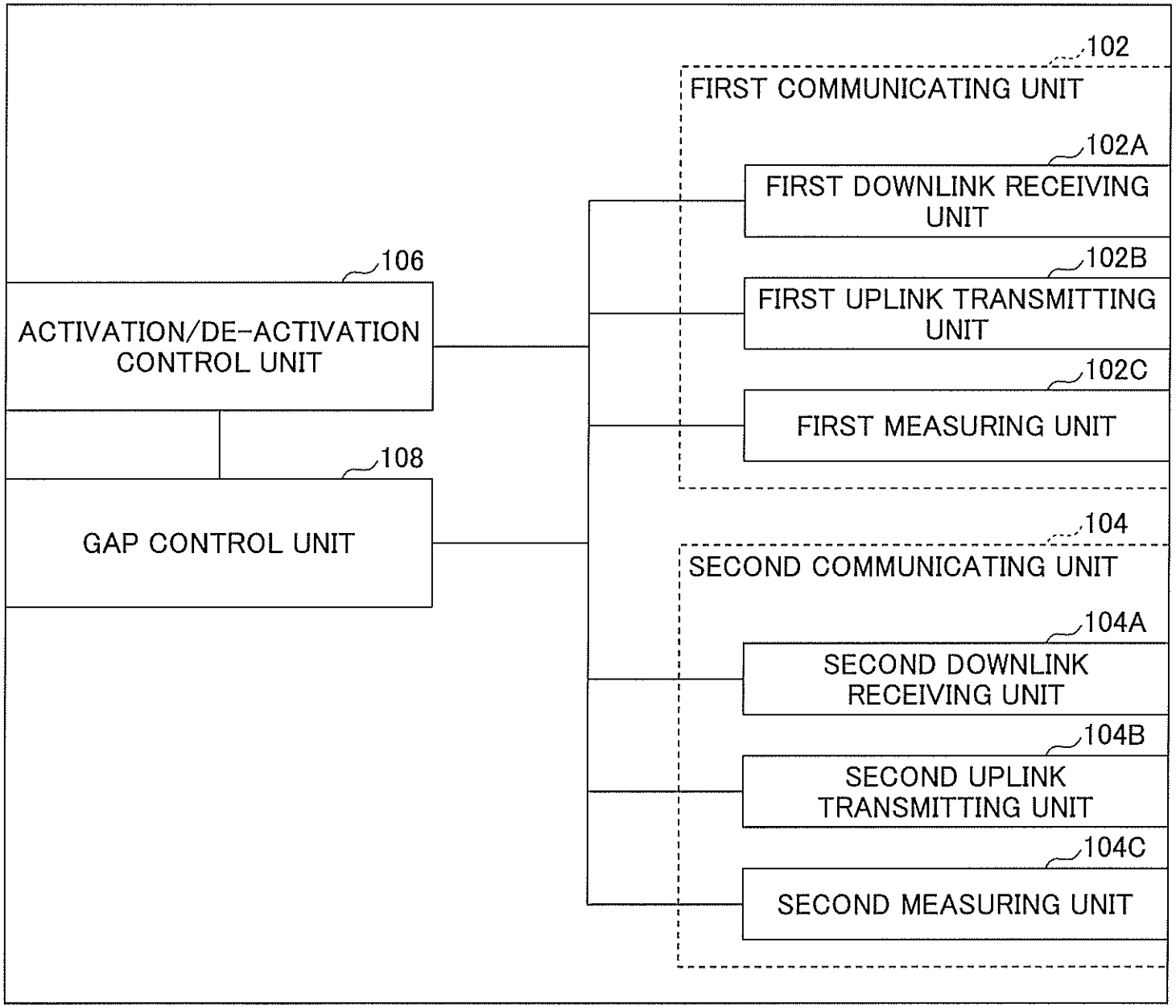

102
FIRST COMMUNICATING UNIT
102A
FIRST DOWNLINK RECEIVING UNIT
102B
FIRST UPLINK TRANSMITTING UNIT
102C
FIRST MEASURING UNIT
106
ACTIVATION/DE-ACTIVATION CONTROL UNIT
108
GAP CONTROL UNIT
104
SECOND COMMUNICATING UNIT
104A
SECOND DOWNLINK RECEIVING UNIT
104B
SECOND UPLINK TRANSMITTING UNIT
104C
SECOND MEASURING UNIT

FIG.11

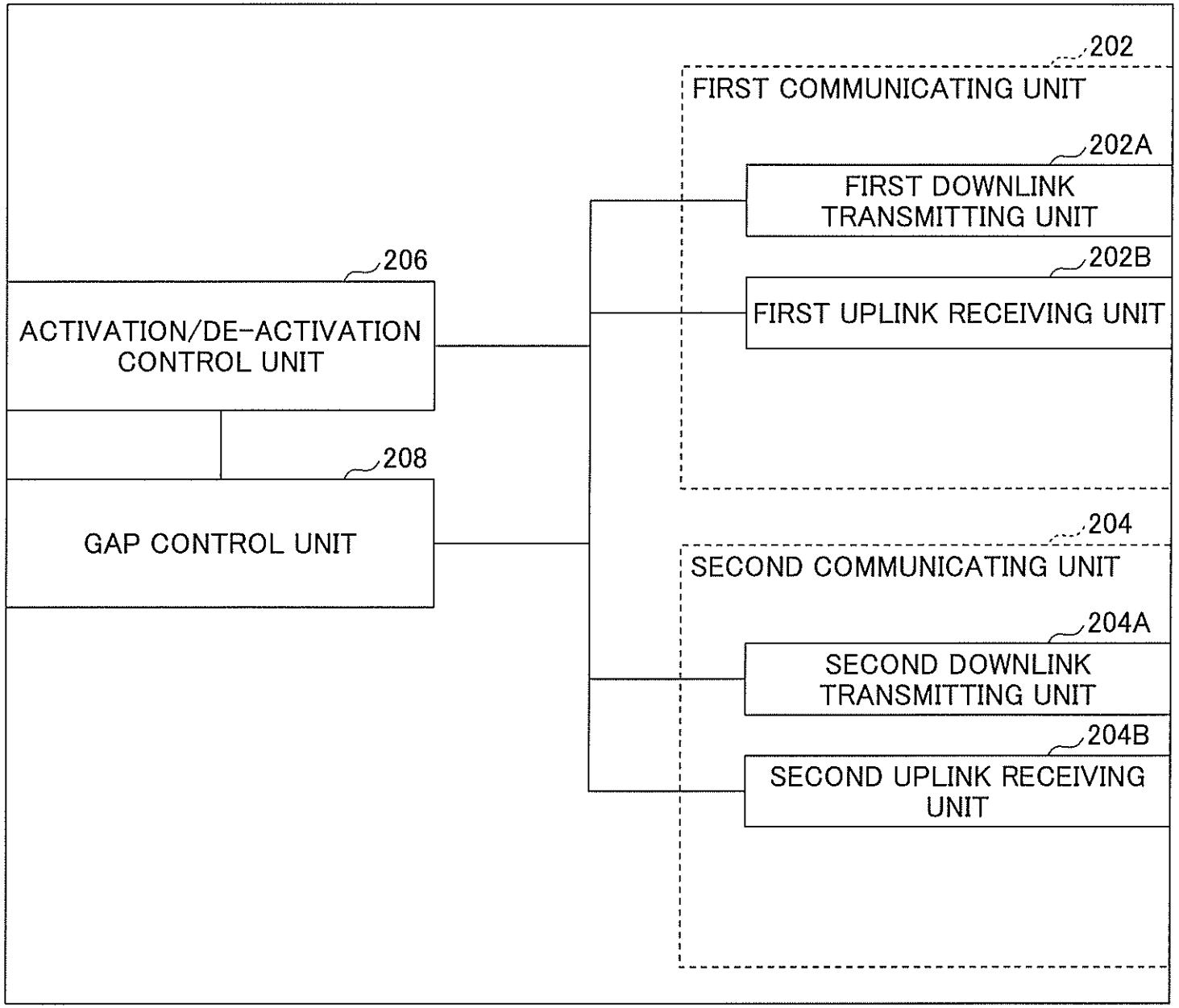

202
FIRST COMMUNICATING UNIT
202A
FIRST DOWNLINK TRANSMITTING UNIT
202B
FIRST UPLINK RECEIVING UNIT
206
ACTIVATION/DE-ACTIVATION CONTROL UNIT
208
GAP CONTROL UNIT
204
SECOND COMMUNICATING UNIT
204A
SECOND DOWNLINK TRANSMITTING UNIT
204B
SECOND UPLINK RECEIVING UNIT

FIG.12

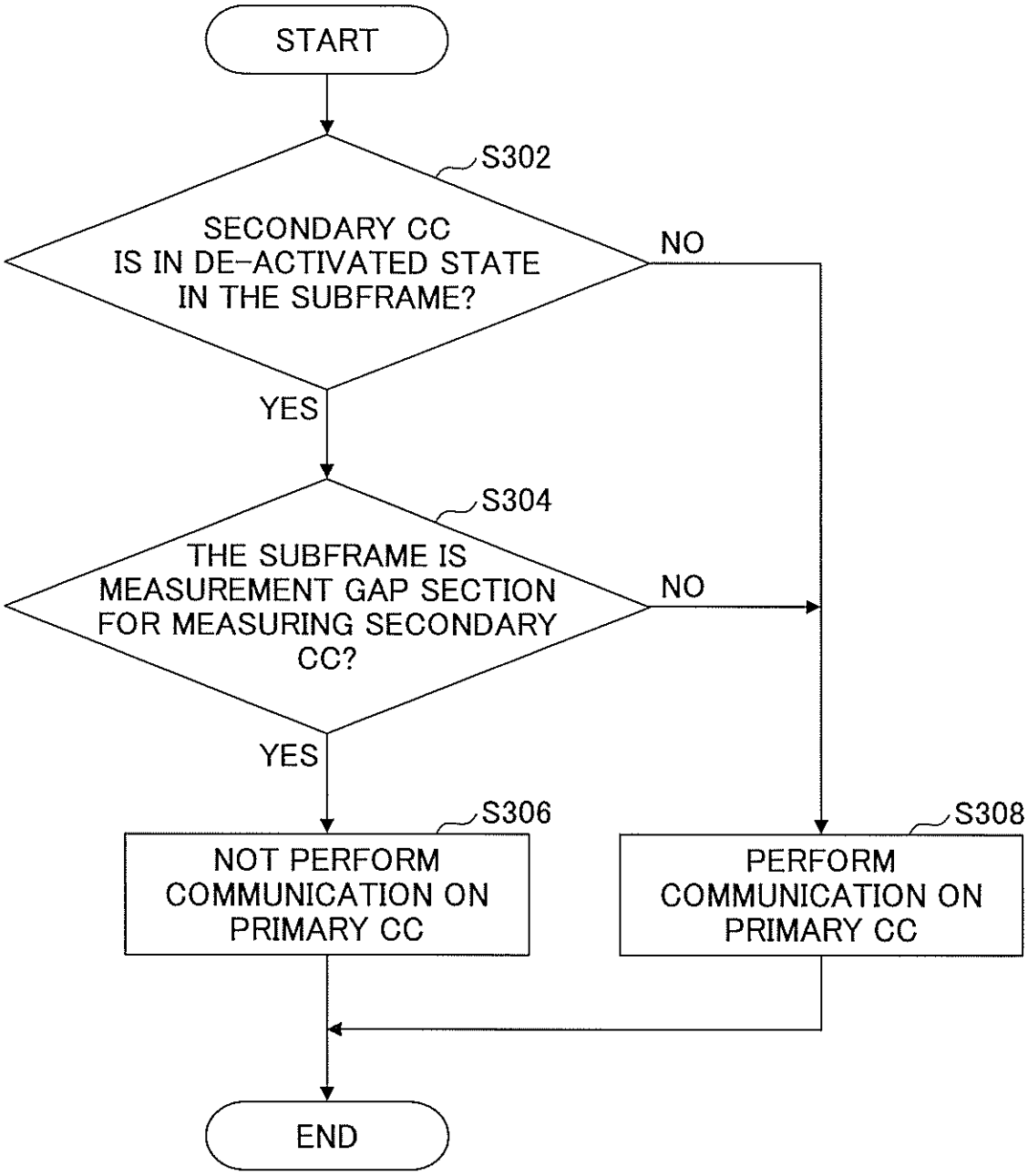

START
S302
SECONDARY CC IS IN DE-ACTIVATED STATE IN THE SUBFRAME?
NO
YES
S304
THE SUBFRAME IS MEASUREMENT GAP SECTION FOR MEASURING SECONDARY CC?
NO
YES
S306
NOT PERFORM COMMUNICATION ON PRIMARY CC
S308
PERFORM COMMUNICATION ON PRIMARY CC
END

FIG.13

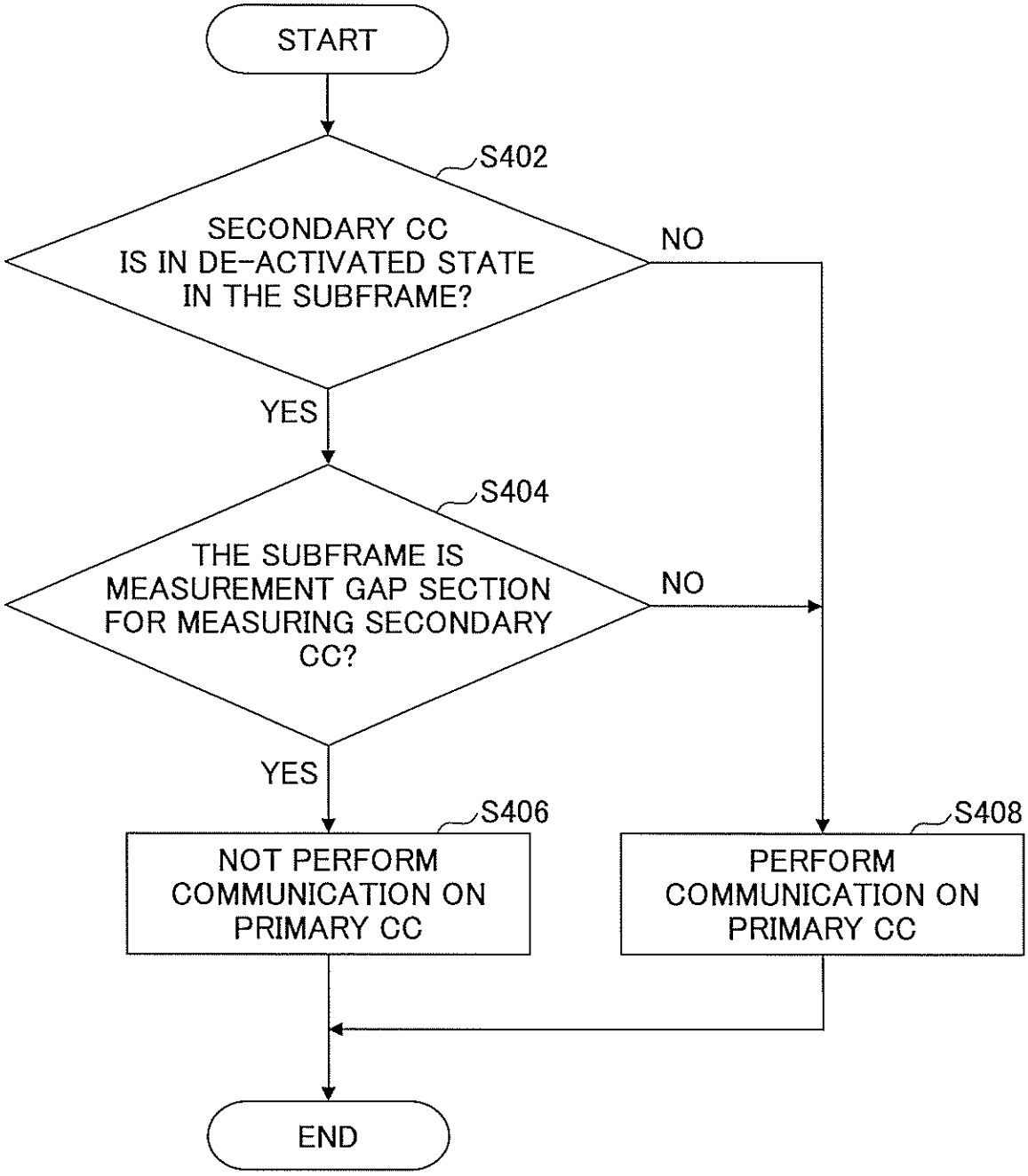
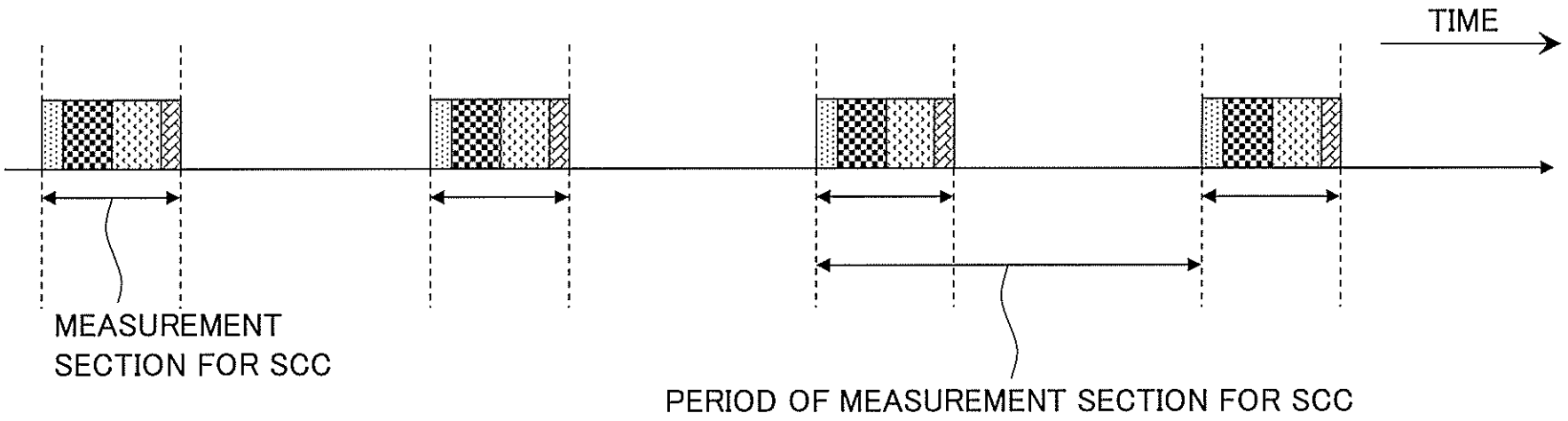

START
S402
SECONDARY CC IS IN DE-ACTIVATED STATE IN THE SUBFRAME?
NO
YES
S404
THE SUBFRAME IS MEASUREMENT GAP SECTION FOR MEASURING SECONDARY CC?
NO
YES
S406
NOT PERFORM COMMUNICATION ON PRIMARY CC
S408
PERFORM COMMUNICATION ON PRIMARY CC
END

FIG.14



FIRST SECTION IN MEASUREMENT SECTION FOR SCC

SECOND SECTION IN MEASUREMENT SECTION FOR SCC

THIRD SECTION IN MEASUREMENT SECTION FOR SCC

FOURTH SECTION IN MEASUREMENT SECTION FOR SCC

FIG.15

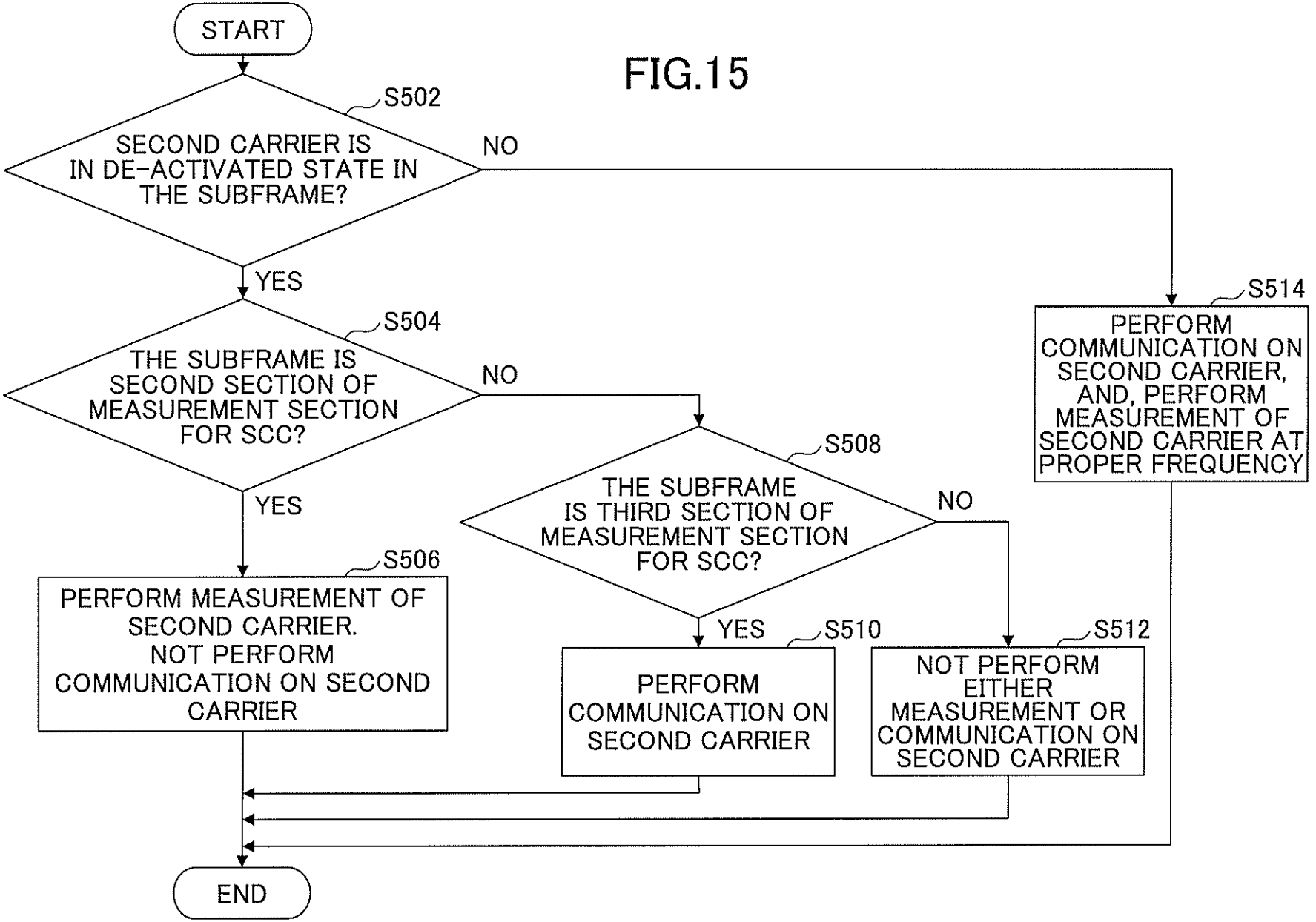
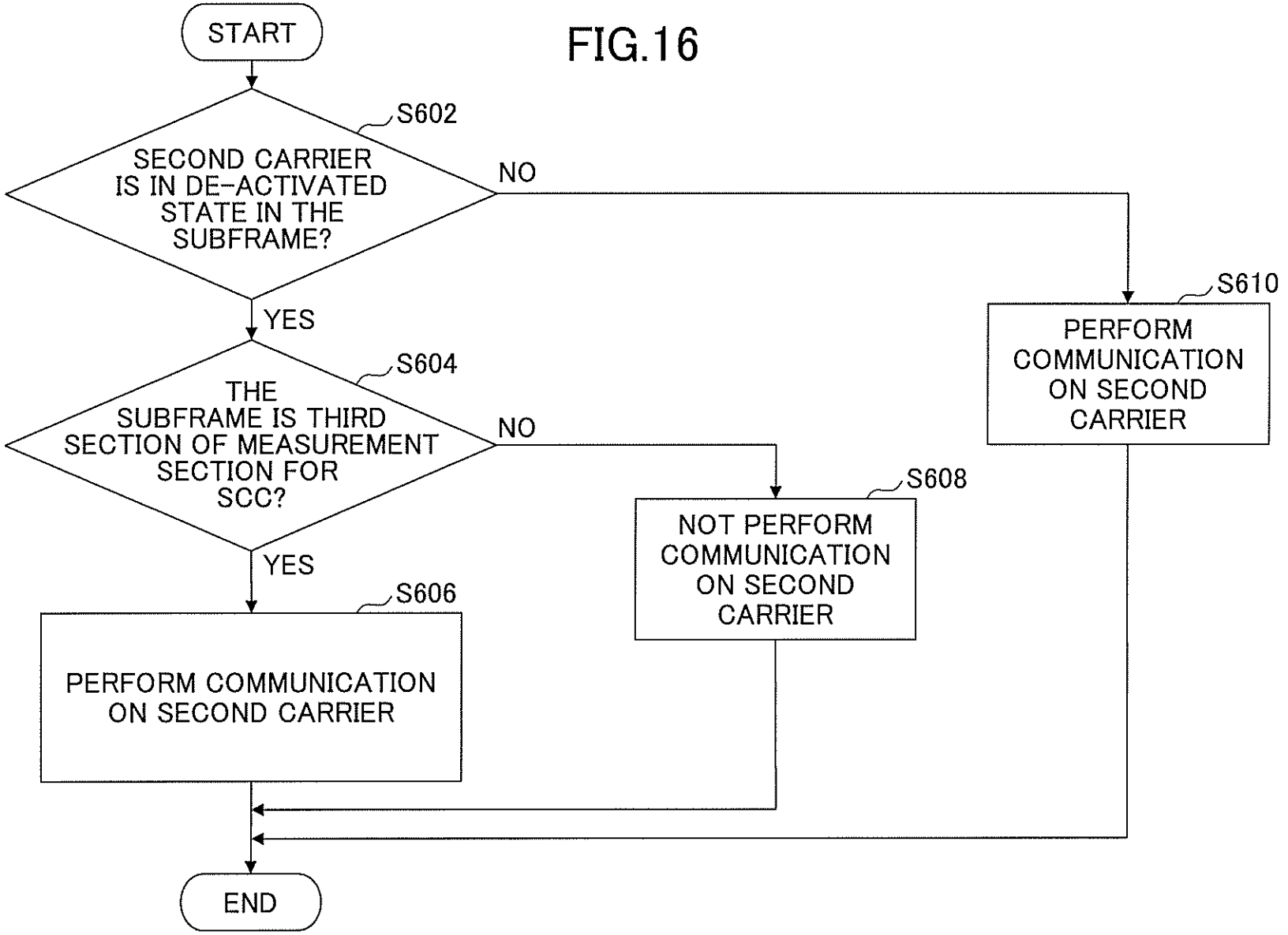

START
S502
SECOND CARRIER IS IN DE-ACTIVATED STATE IN THE SUBFRAME?
NO
YES
S504
THE SUBFRAME IS SECOND SECTION OF MEASUREMENT SECTION FOR SCC?
NO
YES
S506
PERFORM MEASUREMENT OF SECOND CARRIER. NOT PERFORM COMMUNICATION ON SECOND CARRIER
S508
THE SUBFRAME IS THIRD SECTION OF MEASUREMENT SECTION FOR SCC?
NO
YES
S510
PERFORM COMMUNICATION ON SECOND CARRIER
S512
NOT PERFORM EITHER MEASUREMENT OR COMMUNICATION ON SECOND CARRIER
S514
PERFORM COMMUNICATION ON SECOND CARRIER, AND, PERFORM MEASUREMENT OF SECOND CARRIER AT PROPER FREQUENCY
END

FIG.16


START
S602
SECOND CARRIER IS IN DE-ACTIVATED STATE IN THE SUBFRAME?
NO
YES
S610
PERFORM COMMUNICATION ON SECOND CARRIER
S604
THE SUBFRAME IS THIRD SECTION OF MEASUREMENT SECTION FOR SCC?
NO
YES
S608
NOT PERFORM COMMUNICATION ON SECOND CARRIER
S606
PERFORM COMMUNICATION ON SECOND CARRIER
END