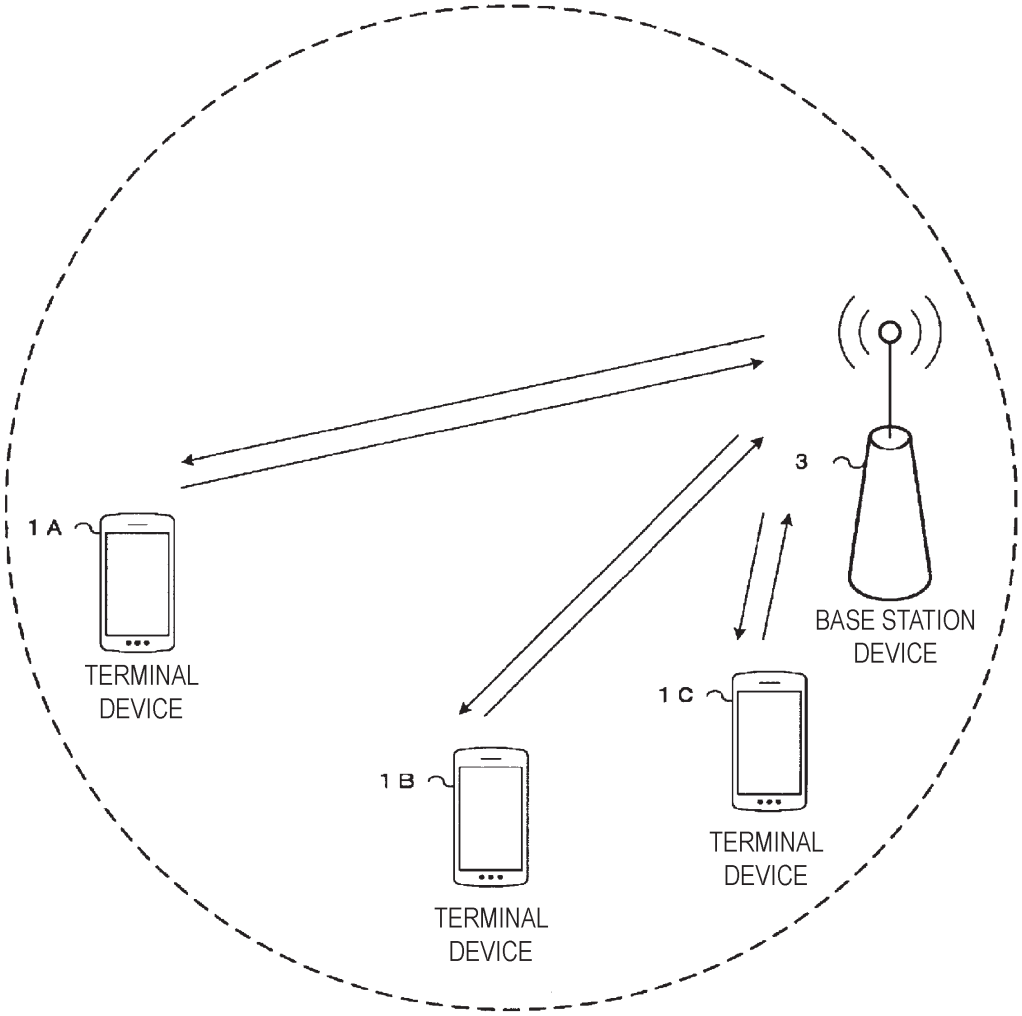

1A
TERMINAL DEVICE
3
BASE STATION DEVICE
1B
TERMINAL DEVICE
1C
TERMINAL DEVICE

FIG. 1

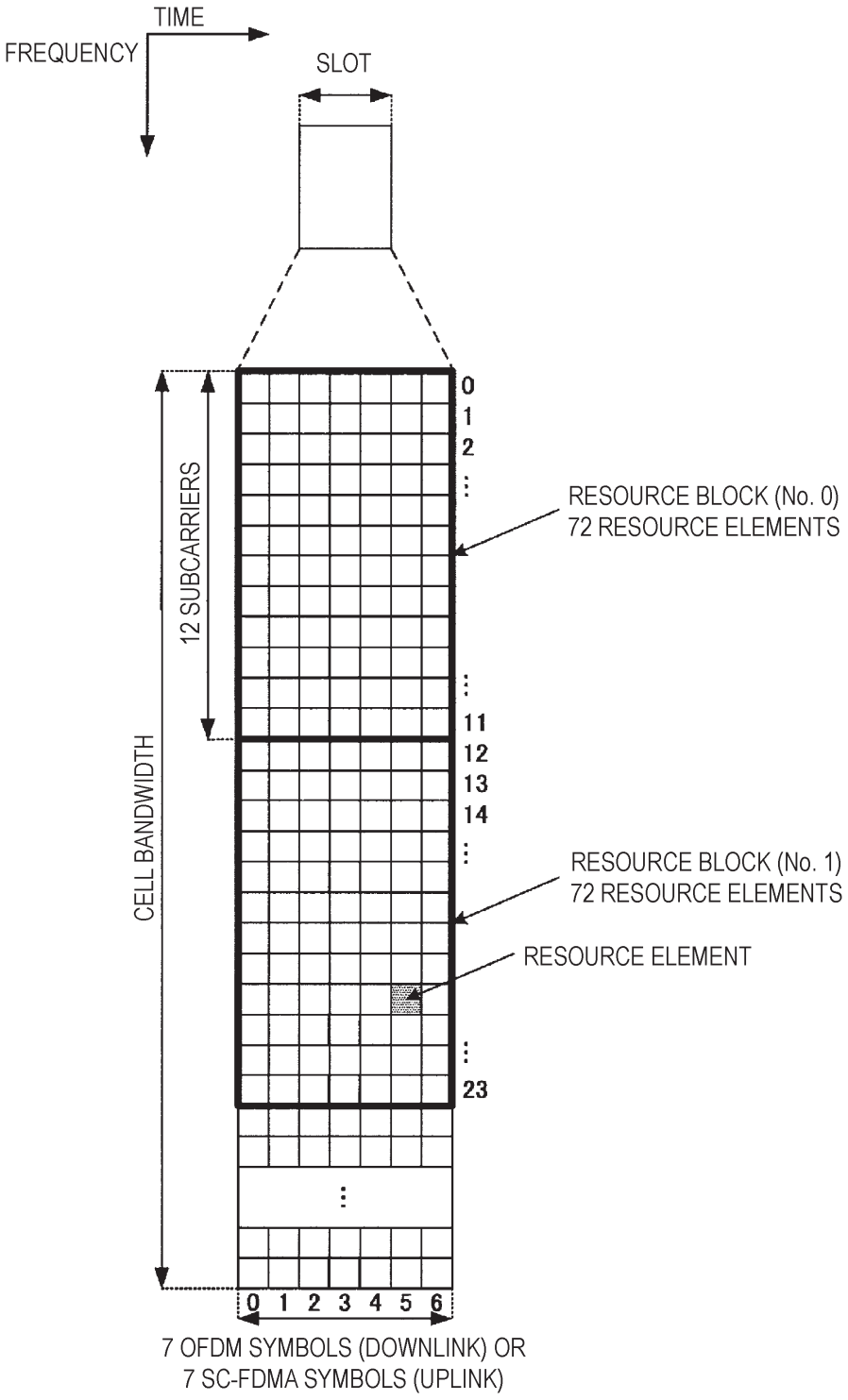

TIME
FREQUENCY
SLOT
0
1
2
11
12
13
14
23
12 SUBCARRIERS
CELL BANDWIDTH
RESOURCE BLOCK (No. 0)
72 RESOURCE ELEMENTS
RESOURCE BLOCK (No. 1)
72 RESOURCE ELEMENTS
RESOURCE ELEMENT
0 1 2 3 4 5 6
7 OFDM SYMBOLS (DOWNLINK) OR
7 SC-FDMA SYMBOLS (UPLINK)

FIG. 2

FIG. 3A

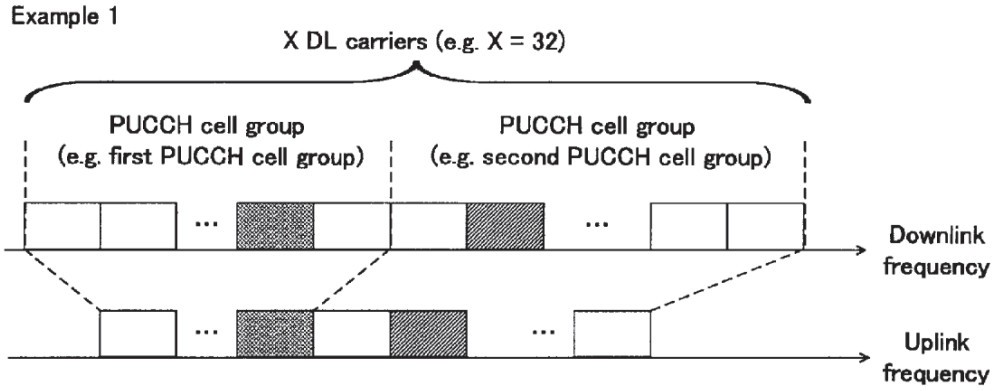


FIG. 3B

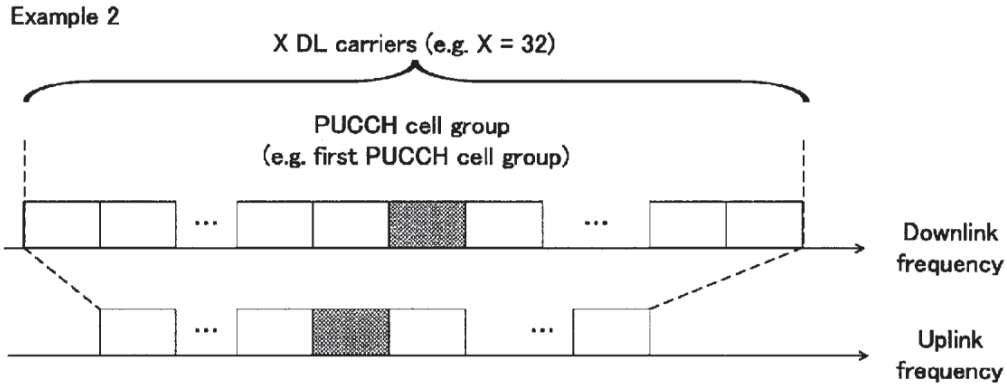
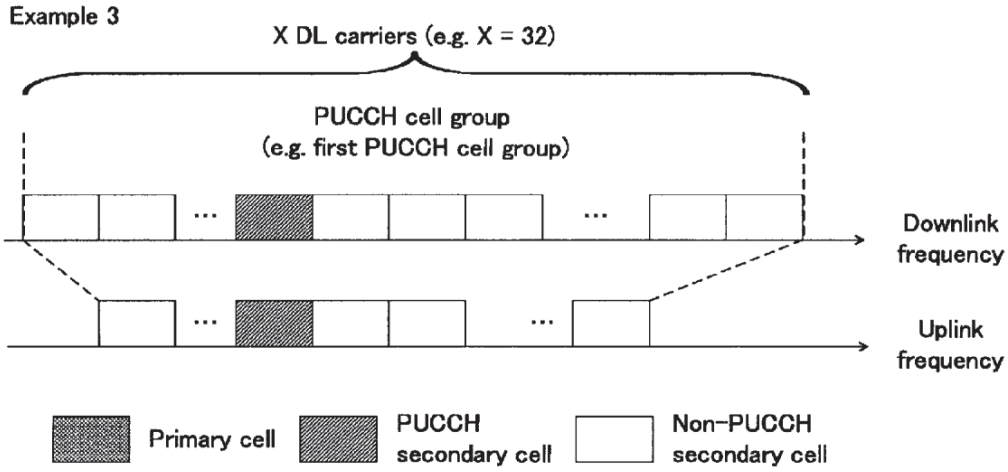


FIG. 3C



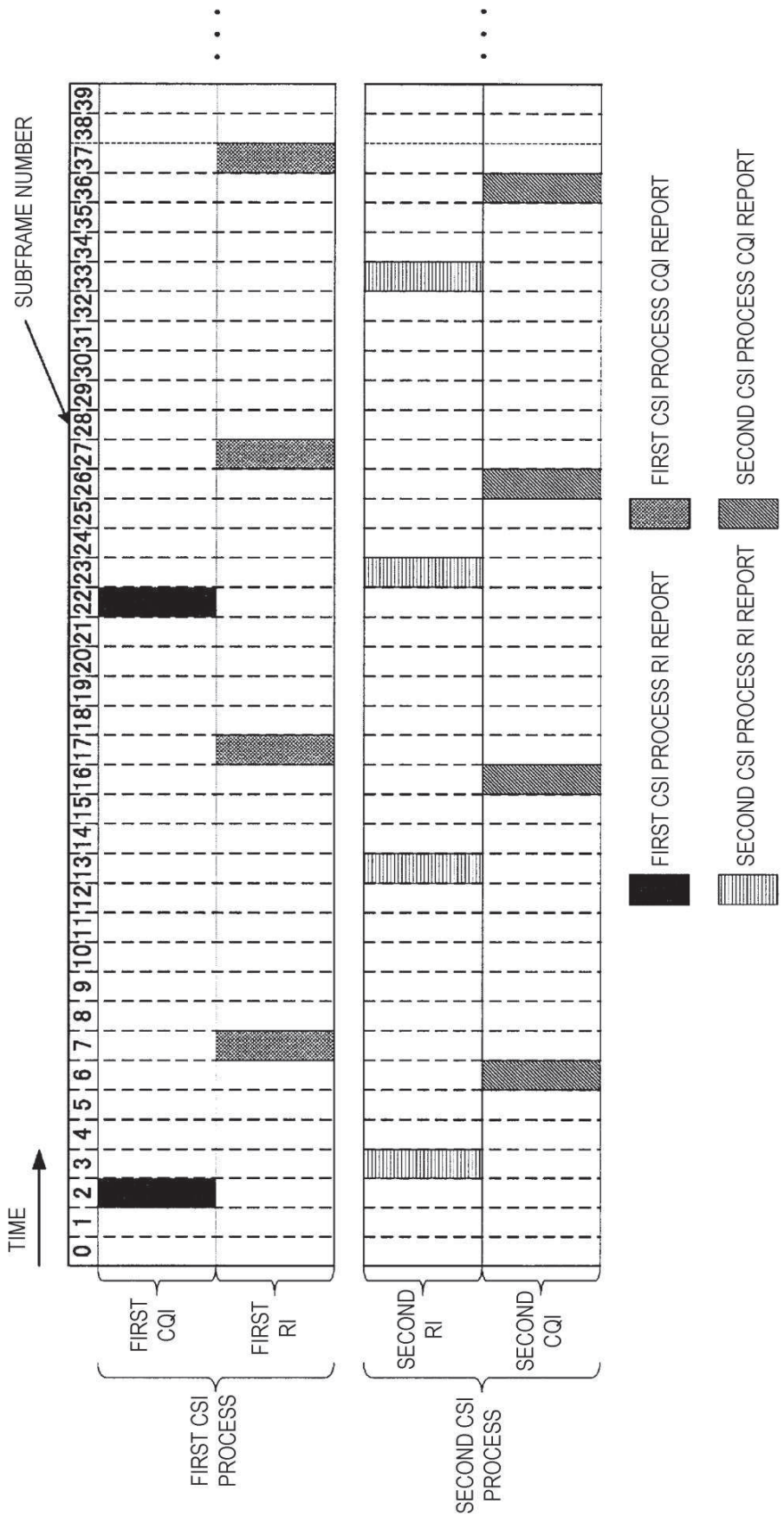

SUBFRAME NUMBER
TIME
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
FIRST CQI
FIRST RI
FIRST CSI PROCESS
SECOND RI
SECOND CQI
SECOND CSI PROCESS
FIRST CSI PROCESS CQI REPORT
SECOND CSI PROCESS CQI REPORT
FIRST CSI PROCESS RI REPORT
SECOND CSI PROCESS RI REPORT

FIG. 4

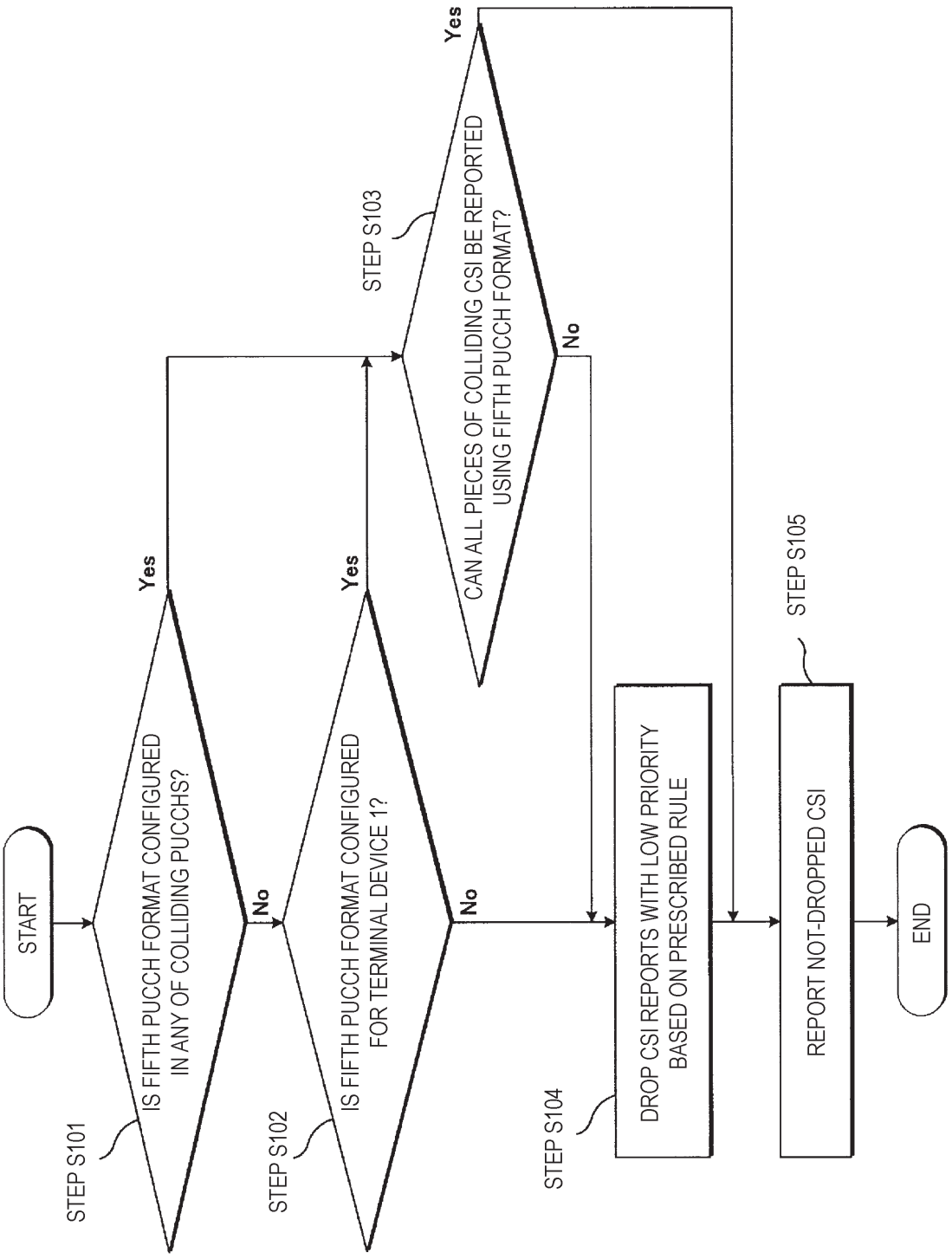

START
IS FIFTH PUCCH FORMAT CONFIGURED IN ANY OF COLLIDING PUCCHS?
STEP S101
Yes
No
IS FIFTH PUCCH FORMAT CONFIGURED FOR TERMINAL DEVICE 1?
STEP S102
Yes
No
CAN ALL PIECES OF COLLIDING CSI BE REPORTED USING FIFTH PUCCH FORMAT?
STEP S103
Yes
No
DROP CSI REPORTS WITH LOW PRIORITY BASED ON PRESCRIBED RULE
STEP S104
REPORT NOT-DROPPED CSI
STEP S105
END

FIG. 5

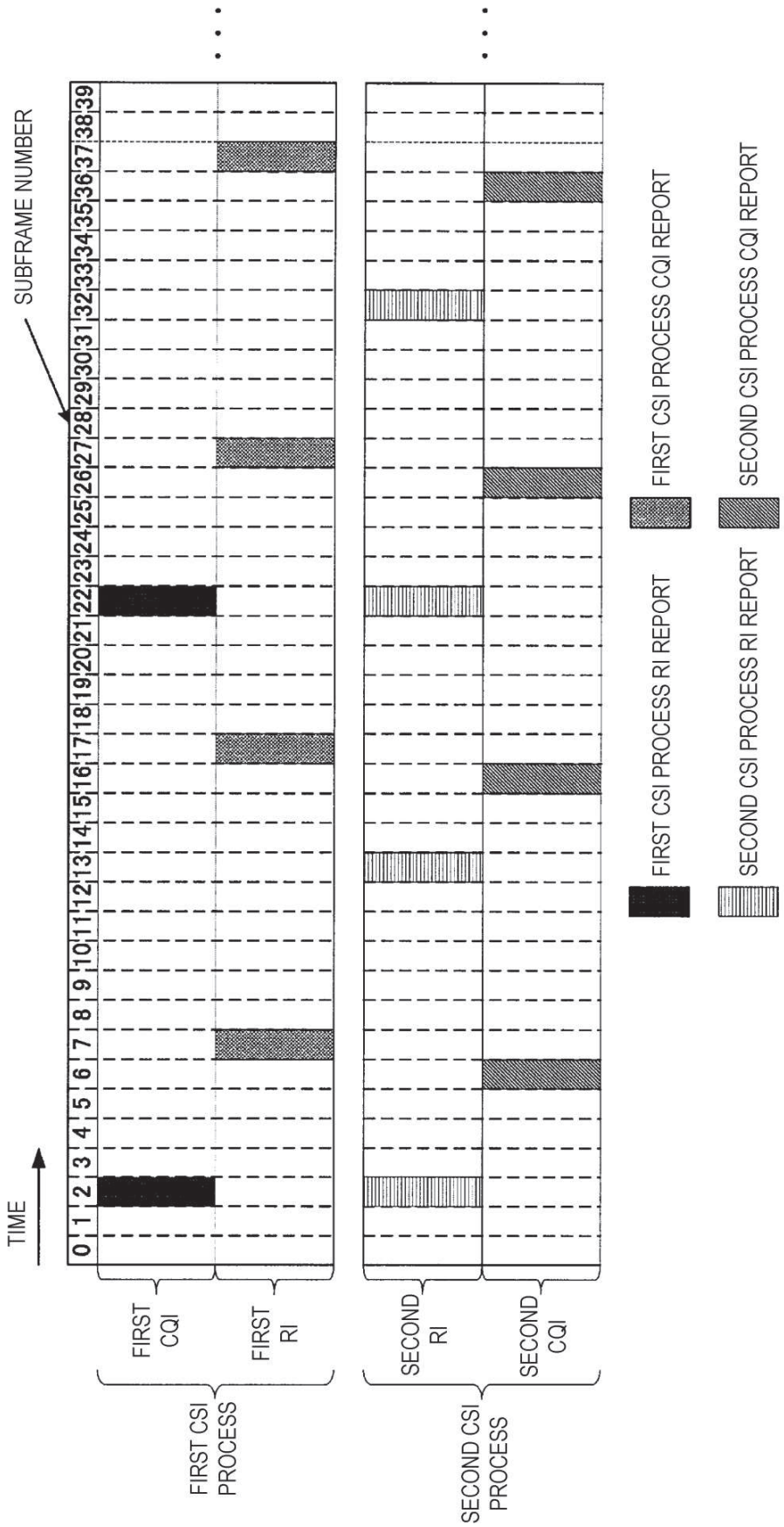

SUBFRAME NUMBER
TIME
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
FIRST CQI
FIRST RI
FIRST CSI PROCESS
SECOND RI
SECOND CQI
SECOND CSI PROCESS
FIRST CSI PROCESS RI REPORT
FIRST CSI PROCESS CQI REPORT
SECOND CSI PROCESS RI REPORT
SECOND CSI PROCESS CQI REPORT

FIG. 6

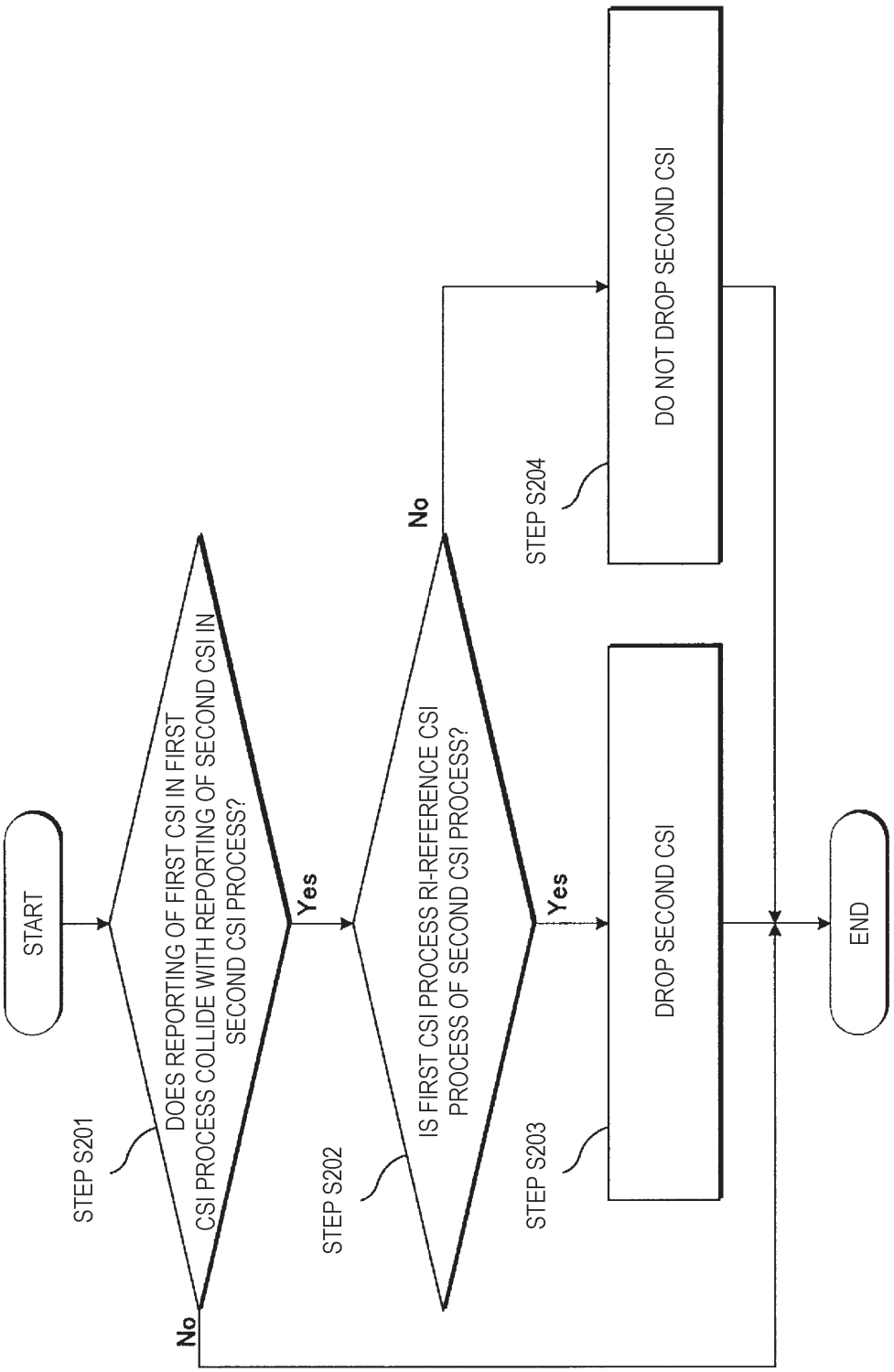

START
STEP S201
DOES REPORTING OF FIRST CSI IN FIRST CSI PROCESS COLLIDE WITH REPORTING OF SECOND CSI IN SECOND CSI PROCESS?
Yes
No
STEP S202
IS FIRST CSI PROCESS RI-REFERENCE CSI PROCESS OF SECOND CSI PROCESS?
Yes
No
STEP S203
DROP SECOND CSI
STEP S204
DO NOT DROP SECOND CSI
END

FIG. 7

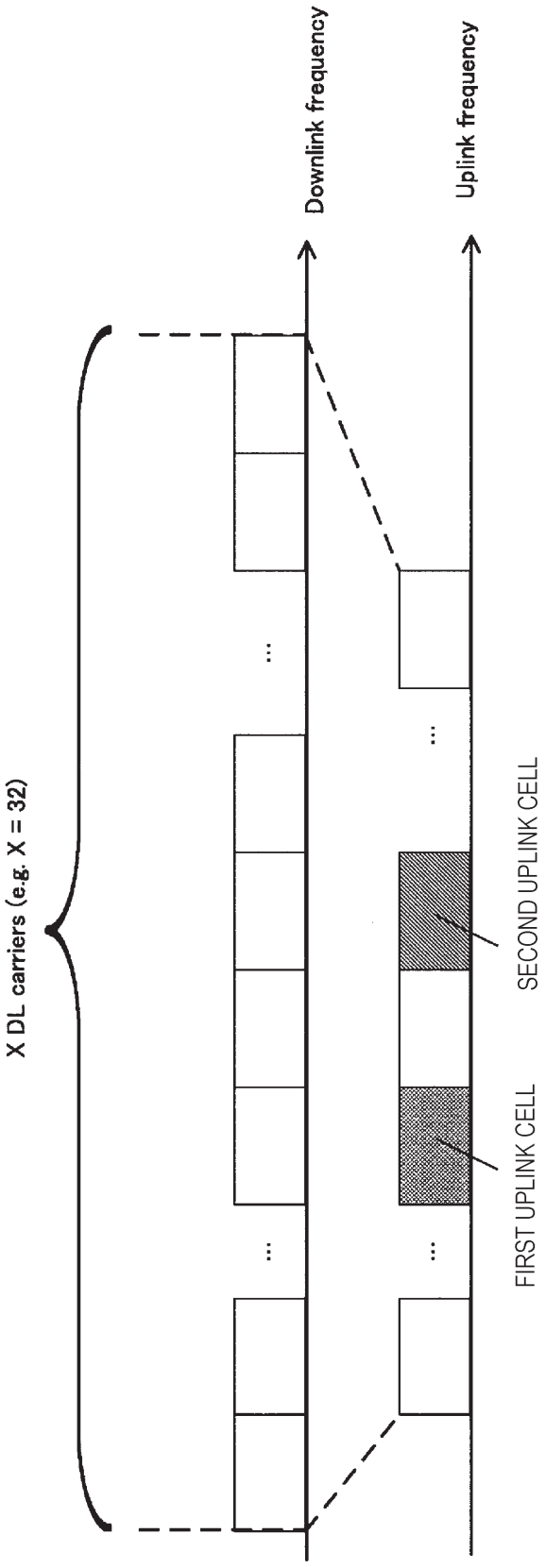

Downlink frequency
Uplink frequency
X DL carriers (e.g. X = 32)
SECOND UPLINK CELL
FIRST UPLINK CELL

FIG. 8

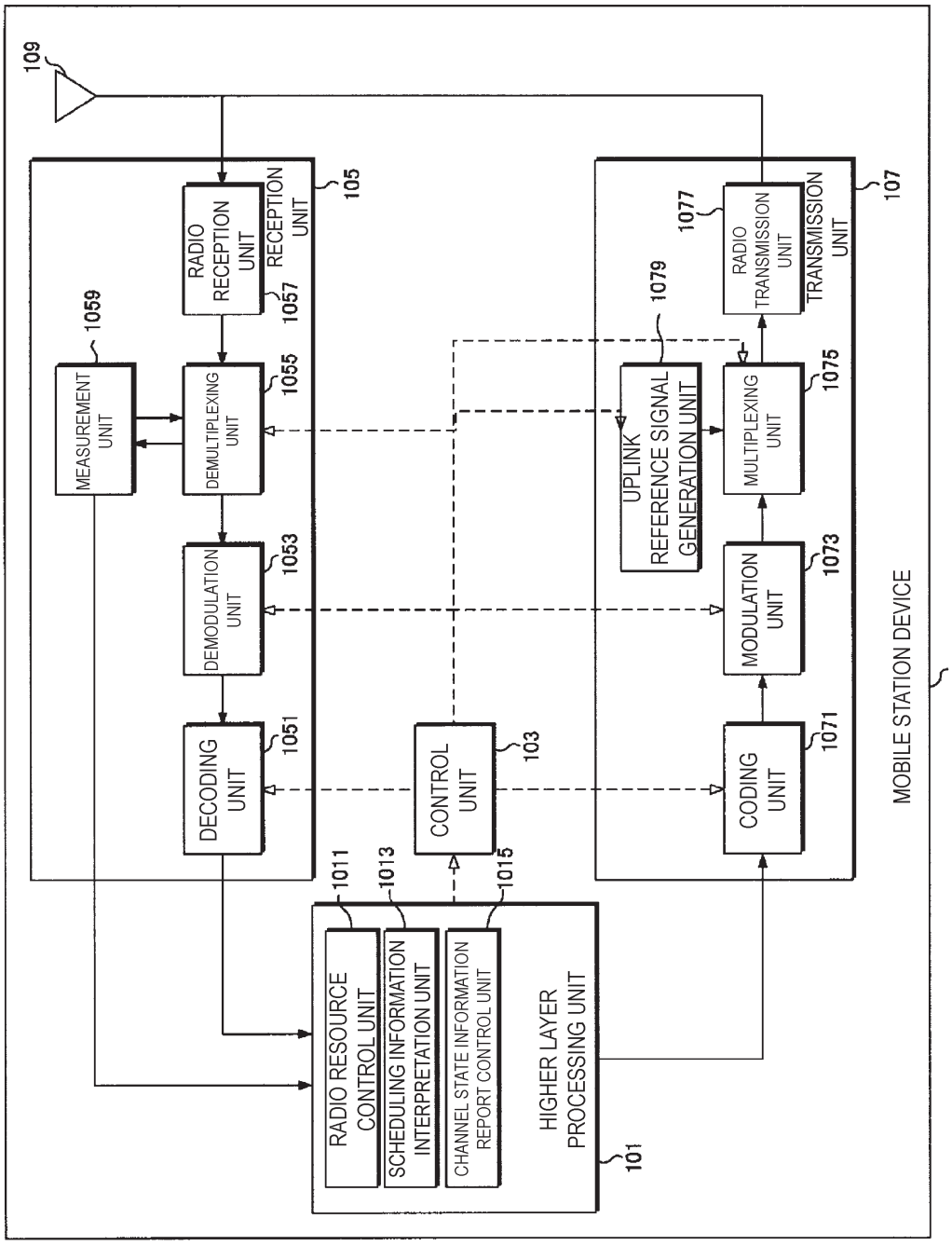

109
RECEPTION UNIT
105
RADIO RECEPTION UNIT
1057
MEASUREMENT UNIT
1059
DEMULTIPLEXING UNIT
1055
DEMODULATION UNIT
1053
DECODING UNIT
1051
CONTROL UNIT
103
RADIO RESOURCE CONTROL UNIT
1011
SCHEDULING INFORMATION INTERPRETATION UNIT
1013
CHANNEL STATE INFORMATION REPORT CONTROL UNIT
1015
HIGHER LAYER PROCESSING UNIT
101
TRANSMISSION UNIT
107
RADIO TRANSMISSION UNIT
1077
UPLINK REFERENCE SIGNAL GENERATION UNIT
1079
MULTIPLEXING UNIT
1075
MODULATION UNIT
1073
CODING UNIT
1071
MOBILE STATION DEVICE
1

FIG. 9

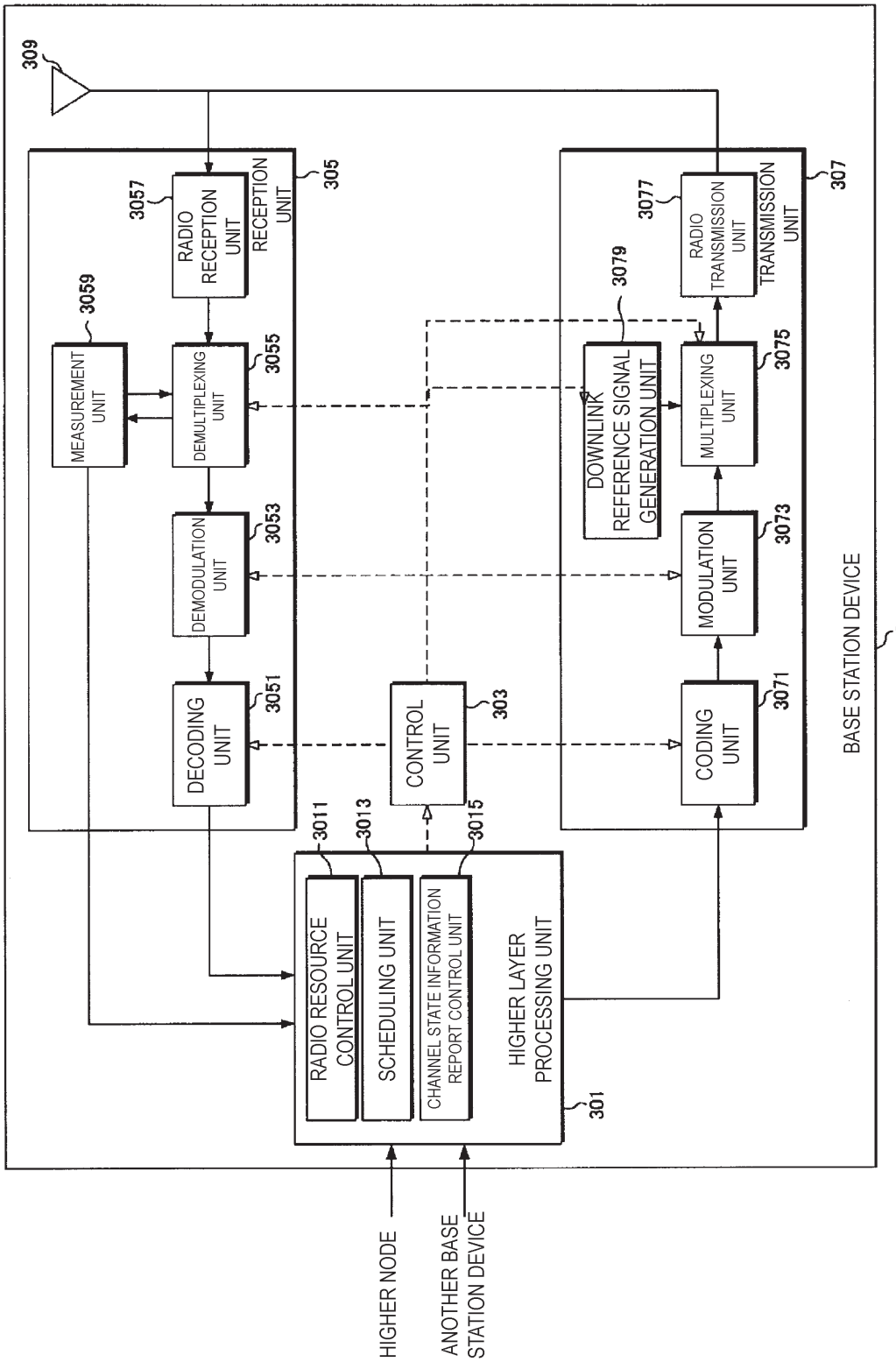

309
RECEPTION UNIT
305
RADIO RECEPTION UNIT
3057
MEASUREMENT UNIT
3059
DEMULTIPLEXING UNIT
3055
DEMODULATION UNIT
3053
DECODING UNIT
3051
TRANSMISSION UNIT
307
RADIO TRANSMISSION UNIT
3077
DOWNLINK REFERENCE SIGNAL GENERATION UNIT
3079
MULTIPLEXING UNIT
3075
MODULATION UNIT
3073
CODING UNIT
3071
CONTROL UNIT
303
RADIO RESOURCE CONTROL UNIT
3011
SCHEDULING UNIT
3013
CHANNEL STATE INFORMATION REPORT CONTROL UNIT
3015
HIGHER LAYER PROCESSING UNIT
301
BASE STATION DEVICE
3
HIGHER NODE
ANOTHER BASE STATION DEVICE

FIG. 10