FIG. 1

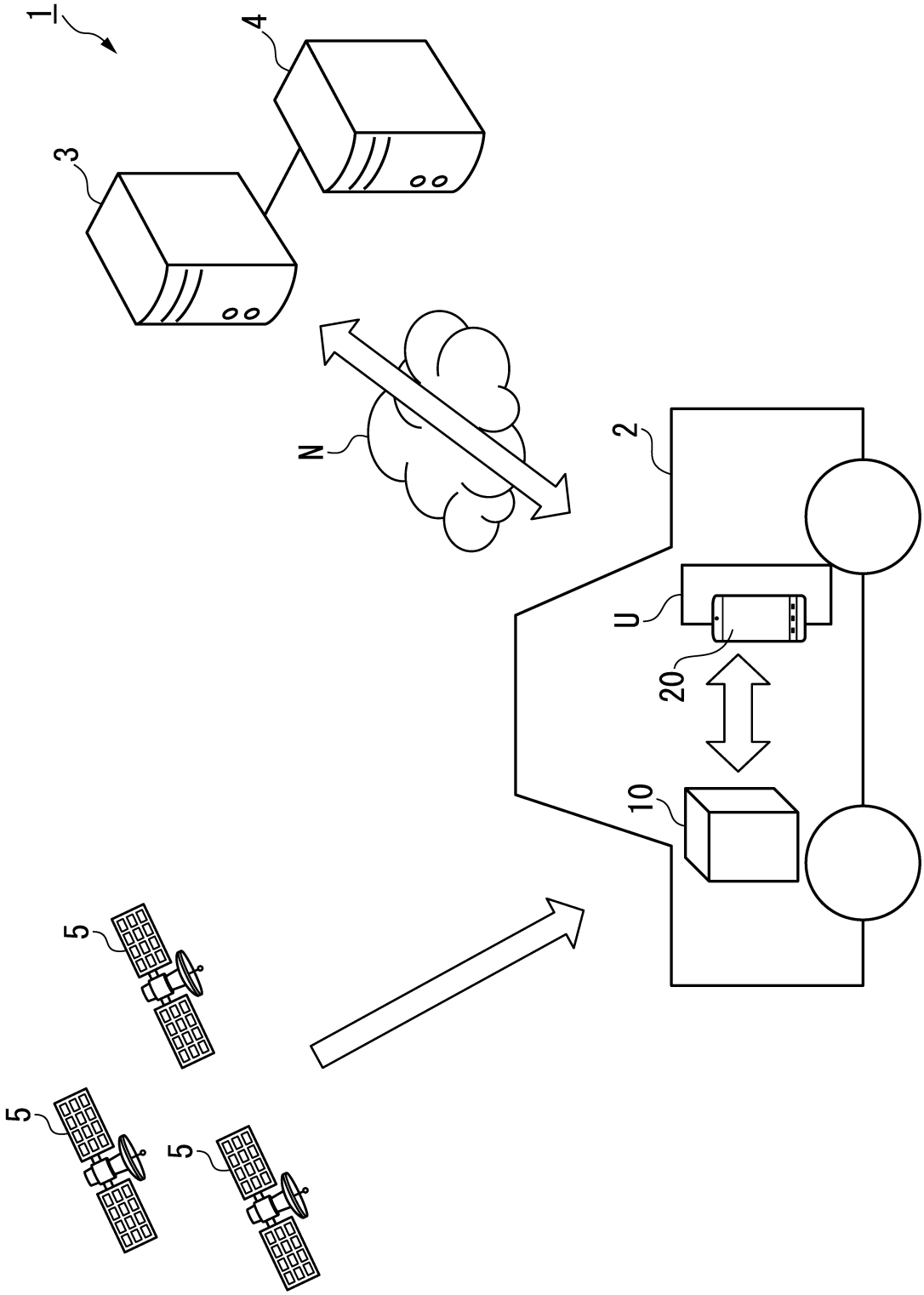


FIG. 2

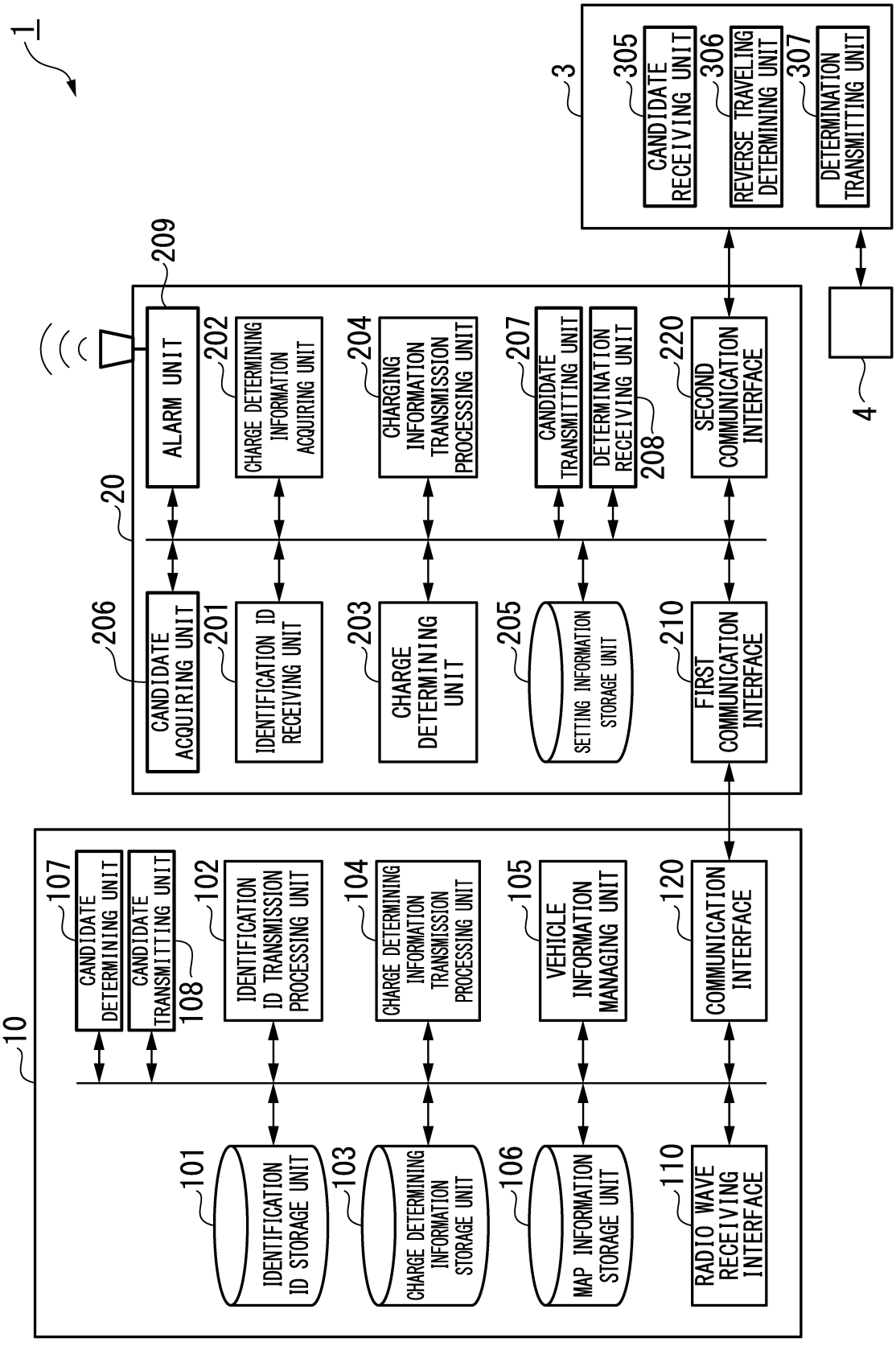

1
10
101
IDENTIFICATION ID STORAGE UNIT
103
CHARGE DETERMINING INFORMATION STORAGE UNIT
106
MAP INFORMATION STORAGE UNIT
110
RADIO WAVE RECEIVING INTERFACE
107
CANDIDATE DETERMINING UNIT
108
CANDIDATE TRANSMITTING UNIT
102
IDENTIFICATION ID TRANSMISSION PROCESSING UNIT
104
CHARGE DETERMINING INFORMATION TRANSMISSION PROCESSING UNIT
105
VEHICLE INFORMATION MANAGING UNIT
120
COMMUNICATION INTERFACE
20
206
CANDIDATE ACQUIRING UNIT
201
IDENTIFICATION ID RECEIVING UNIT
203
CHARGE DETERMINING UNIT
205
SETTING INFORMATION STORAGE UNIT
210
FIRST COMMUNICATION INTERFACE
209
ALARM UNIT
202
CHARGE DETERMINING INFORMATION ACQUIRING UNIT
204
CHARGING INFORMATION TRANSMISSION PROCESSING UNIT
207
CANDIDATE TRANSMITTING UNIT
208
DETERMINATION RECEIVING UNIT
220
SECOND COMMUNICATION INTERFACE
3
305
CANDIDATE RECEIVING UNIT
306
REVERSE TRAVELING DETERMINING UNIT
307
DETERMINATION TRANSMITTING UNIT
4

FIG. 3

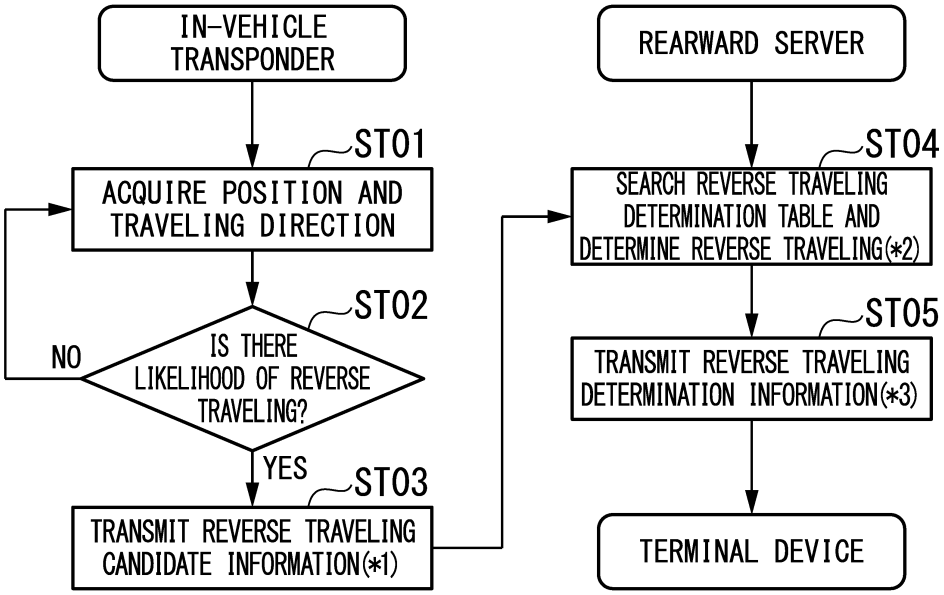


FIG. 4

*1 REVERSE TRAVELING CANDIDATE INFORMATION (EXAMPLE)

SERIAL No.	ON-BOARD UNIT ID	POSITIONAL INFORMATION	TRAVELING DIRECTION	DATE INFORMATION	TIME INFORMATION
1	2018000010	NORTH LATITUDE 36° 0' 0" EAST LONGITUDE 136° 30' 0"	NORTH-NORTH-WEST	2018/5/25	11:30:36
2	2018000032	NORTH LATITUDE 35° 35' 35" EAST LONGITUDE 139° 35' 50"	WEST-SOUTH-WEST	2018/5/25	11:50:15
3					

FIG. 5

*2 REVERSE TRAVELING DETERMINATION TABLE (EXAMPLE)

No	NORTH LATITUDE	EAST LONGITUDE	TRAVELING DIRECTION ≪DETERMINATION OF REVERSE TRAVELING≫	TRAVELING DIRECTION ≪DETERMINATION OF CAUTION≫	TRAVELING DIRECTION ≪DETERMINATION OF NO NOTIFICATION≫
1	34° 99' 45"- 35° 0' 80"	136° 29' 50"- 136° 29' 90"	NORTH-WEST - NORTH-EAST	WEST - NORTH-WEST OR EAST - NORTH-EAST	OTHER THAN DESCRIBED DIRECTIONS
2	36° 23' 30"- 36° 23' 40"	136° 32' 20"- 136° 32' 25"	SOUTH-WEST - SOUTH-EAST	WEST - SOUTH-WEST OR EAST - SOUTH-EAST	OTHER THAN DESCRIBED DIRECTIONS
3					

FIG. 6

*3 DETERMINATION RESULT INFORMATION (EXAMPLE)

SERIAL No.	ON-BOARD UNIT ID	DATE INFORMATION	TIME INFORMATION	DETERMINATION RESULT
1	2018000010	2018/5/25	11:30:36	DETERMINATION OF REVERSE TRAVELING
2	2018000032	2018/5/25	11:50:15	DETERMINATION OF CAUTION

FIG. 7

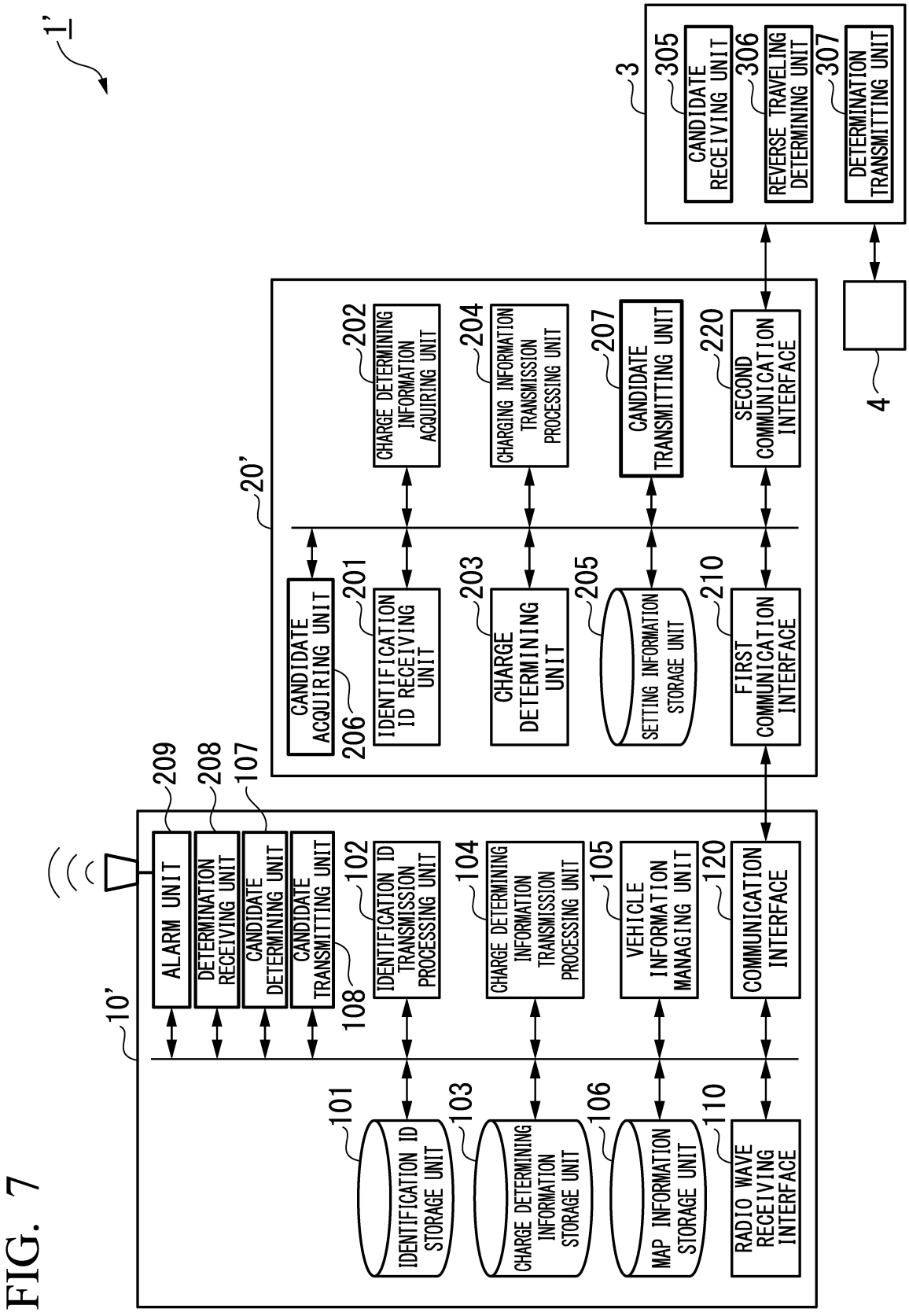

1'
10'
ALARM UNIT
DETERMINATION RECEIVING UNIT
CANDIDATE DETERMINING UNIT
CANDIDATE TRANSMITTING UNIT
IDENTIFICATION ID TRANSMISSION PROCESSING UNIT
CHARGE DETERMINING INFORMATION TRANSMISSION PROCESSING UNIT
VEHICLE INFORMATION MANAGING UNIT
COMMUNICATION INTERFACE
IDENTIFICATION ID STORAGE UNIT
CHARGE DETERMINING INFORMATION STORAGE UNIT
MAP INFORMATION STORAGE UNIT
RADIO WAVE RECEIVING INTERFACE
101
102
103
104
105
106
107
108
109
110
120
20'
CANDIDATE ACQUIRING UNIT
IDENTIFICATION ID RECEIVING UNIT
CHARGE DETERMINING UNIT
SETTING INFORMATION STORAGE UNIT
FIRST COMMUNICATION INTERFACE
CHARGE DETERMINING INFORMATION ACQUIRING UNIT
CHARGING INFORMATION TRANSMISSION PROCESSING UNIT
CANDIDATE TRANSMITTING UNIT
SECOND COMMUNICATION INTERFACE
201
202
203
204
205
206
207
210
220
3
CANDIDATE RECEIVING UNIT
REVERSE TRAVELING DETERMINING UNIT
DETERMINATION TRANSMITTING UNIT
305
306
307
4

FIG. 8

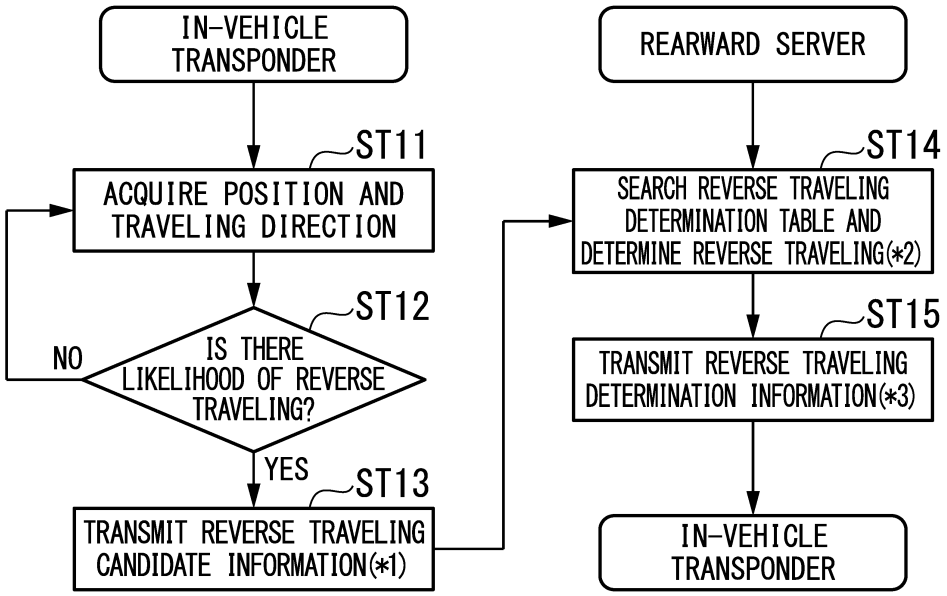
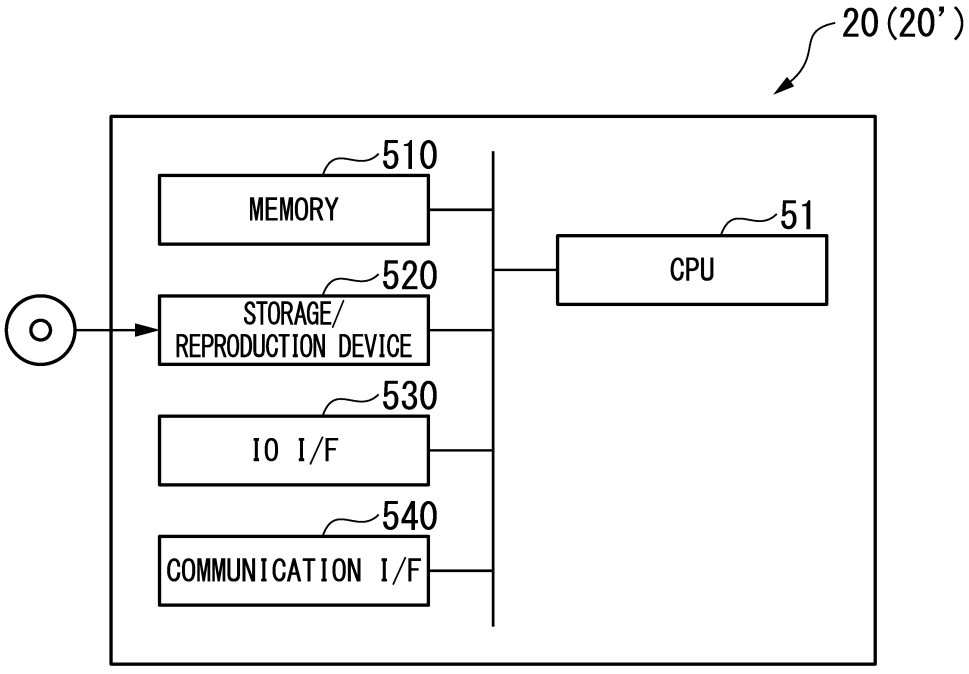

IN-VEHICLE TRANSPONDER
REARWARD SERVER
ST11
ACQUIRE POSITION AND TRAVELING DIRECTION
ST12
IS THERE LIKELIHOOD OF REVERSE TRAVELING?
NO
YES
ST13
TRANSMIT REVERSE TRAVELING CANDIDATE INFORMATION(*1)
ST14
SEARCH REVERSE TRAVELING DETERMINATION TABLE AND DETERMINE REVERSE TRAVELING(*2)
ST15
TRANSMIT REVERSE TRAVELING DETERMINATION INFORMATION(*3)
IN-VEHICLE TRANSPONDER

FIG. 9


20(20')
510
MEMORY
51
CPU
520
STORAGE/ REPRODUCTION DEVICE
530
IO I/F
540
COMMUNICATION I/F