FIG. 1

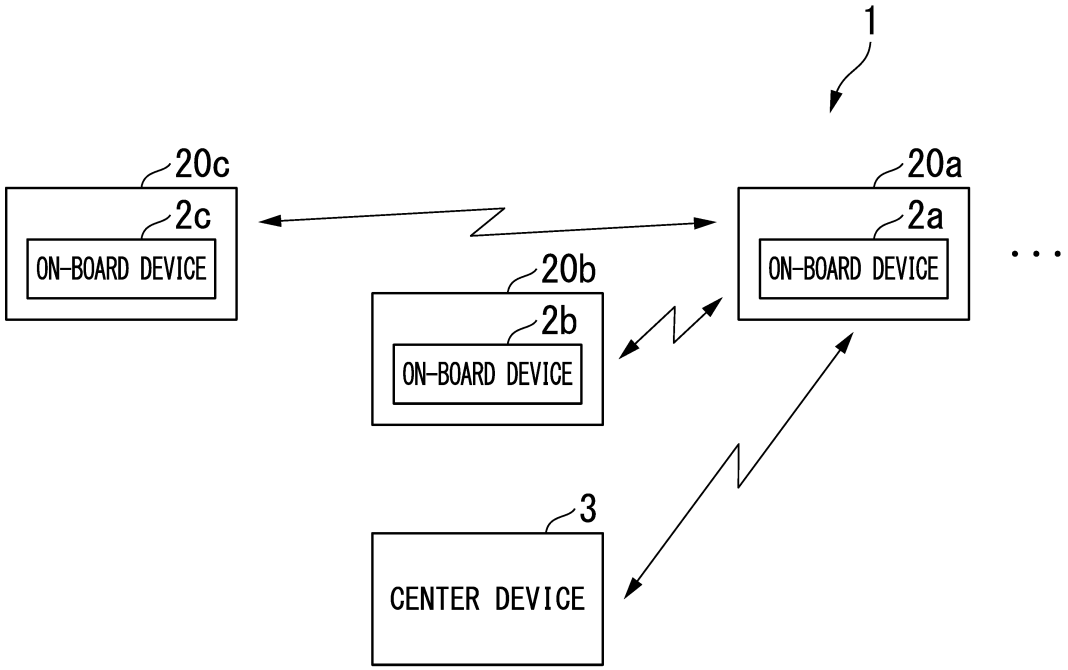

1
20c
2c
ON-BOARD DEVICE
20a
2a
ON-BOARD DEVICE
20b
2b
ON-BOARD DEVICE
3
CENTER DEVICE

FIG. 2

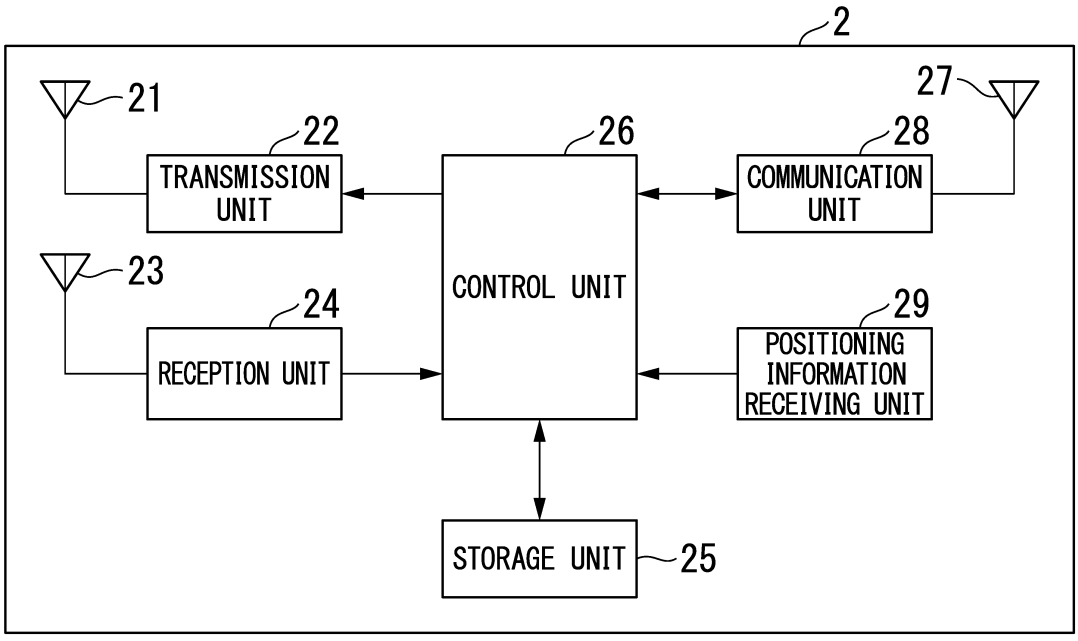

2
21
22
TRANSMISSION UNIT
26
27
28
COMMUNICATION UNIT
23
24
RECEPTION UNIT
CONTROL UNIT
29
POSITIONING INFORMATION RECEIVING UNIT
STORAGE UNIT
25

FIG. 3

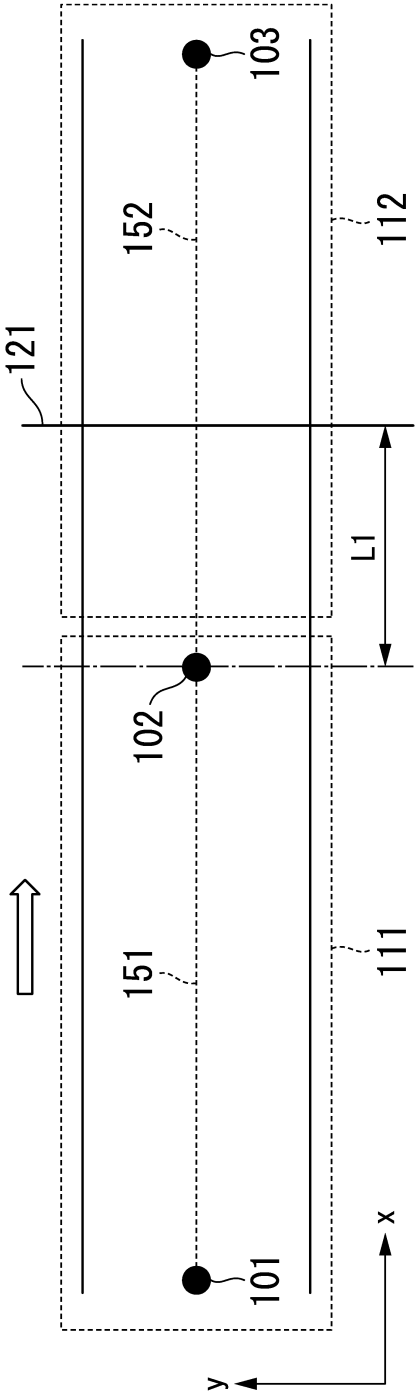


FIG. 4

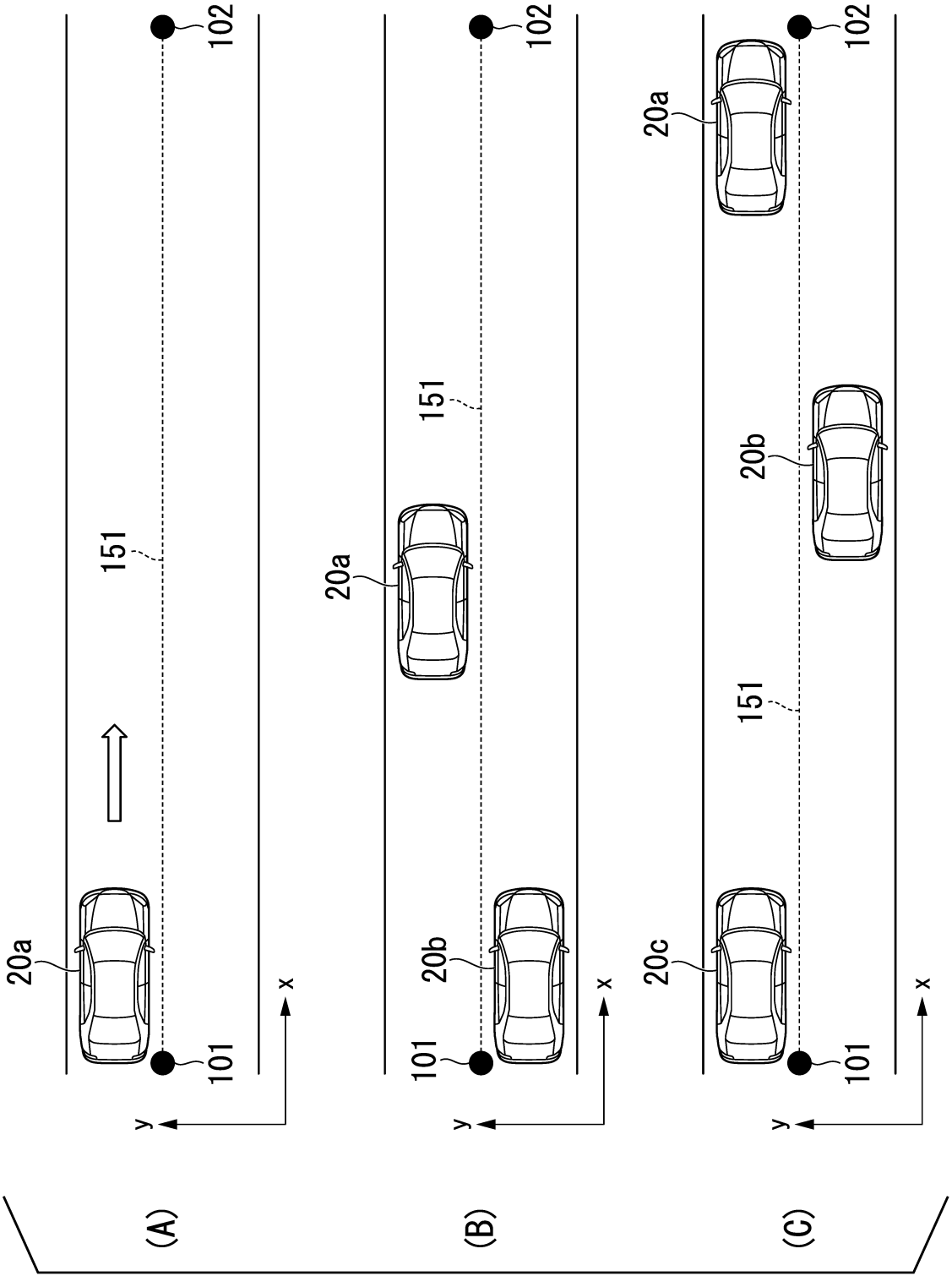


FIG. 5

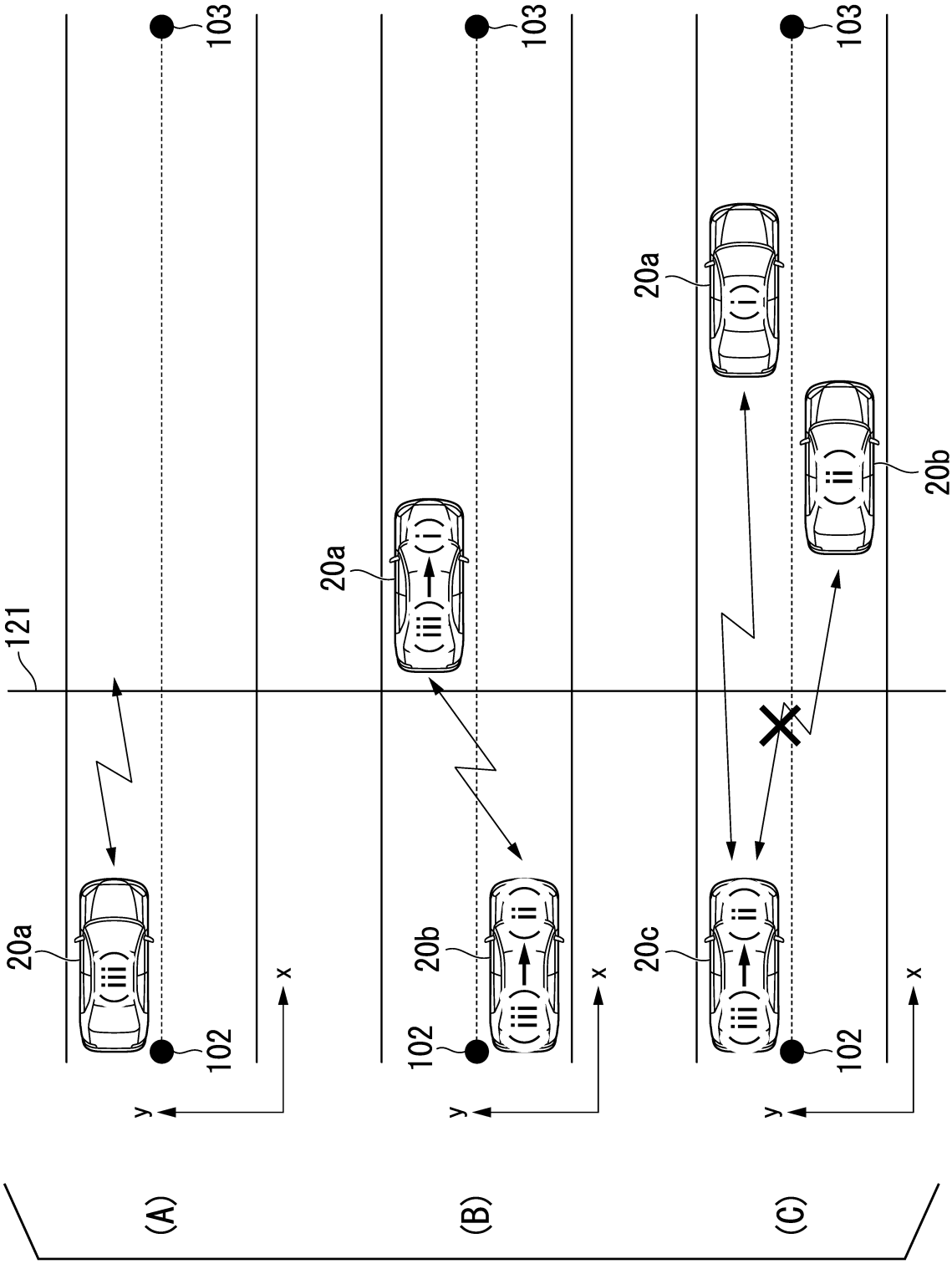


FIG. 6

HEADER	REQUEST	TRANSMISSION/ RECEPTION STATE

FIG. 7

HEADER	LINK ID	SPEED INFORMATION	TRANSMISSION/ RECEPTION STATE

FIG. 8

HEADER	LINK ID	SPEED INFORMATION OF FIRST VEHICLE	SPEED INFORMATION OF SECOND VEHICLE	...	SPEED INFORMATION OF n-TH VEHICLE

FIG. 9

LINK ID	SPEED INFORMATION OF VEHICLE
1	SPEED INFORMATION OF HOST VEHICLE
	...
	SPEED INFORMATION OF n-TH VEHICLE

FIG. 10

TRANSMISSION/RECEPTION STATE OF ON-BOARD DEVICE OF HOST VEHICLE	TRANSMISSION/RECEPTION STATE OF ON-BOARD DEVICE OF COMMUNICATION PARTNER	PROCESSING
i	i	NOT ACQUIRE SPEED INFORMATION
	ii	NOT ACQUIRE SPEED INFORMATION
	iii	ACQUIRE SPEED INFORMATION
ii	i	NOT ACQUIRE SPEED INFORMATION
	ii	NOT ACQUIRE SPEED INFORMATION
	iii	NOT ACQUIRE SPEED INFORMATION
iii	i	NOT ACQUIRE SPEED INFORMATION
	ii	NOT ACQUIRE SPEED INFORMATION
	iii	NOT ACQUIRE SPEED INFORMATION

FIG. 11

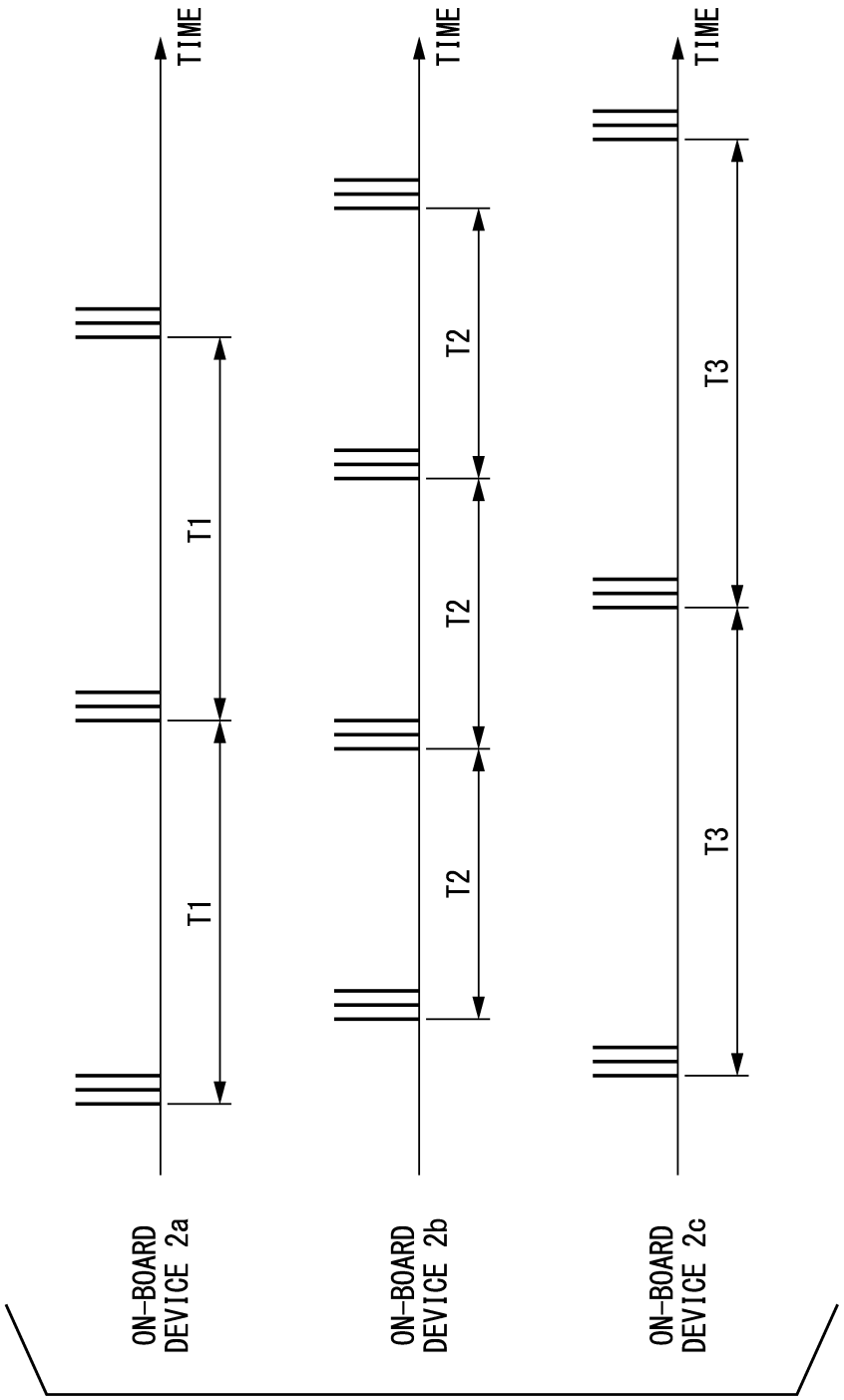

TIME
T1
T1
ON-BOARD DEVICE 2a
TIME
T2
T2
T2
ON-BOARD DEVICE 2b
TIME
T3
T3
ON-BOARD DEVICE 2c

FIG. 12

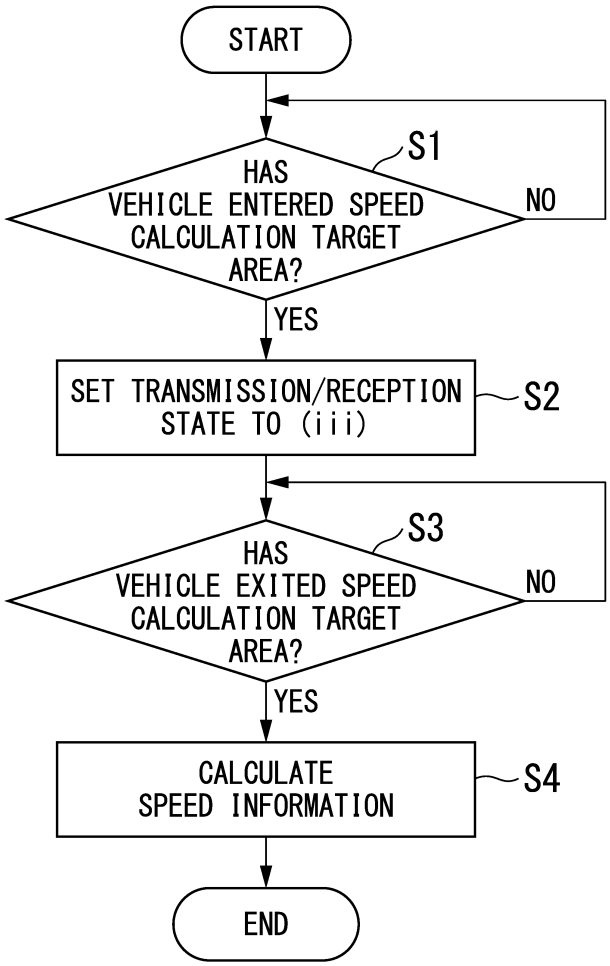

START
S1
HAS VEHICLE ENTERED SPEED CALCULATION TARGET AREA?
NO
YES
SET TRANSMISSION/RECEPTION STATE TO (iii)
S2
S3
HAS VEHICLE EXITED SPEED CALCULATION TARGET AREA?
NO
YES
CALCULATE SPEED INFORMATION
S4
END

FIG. 13

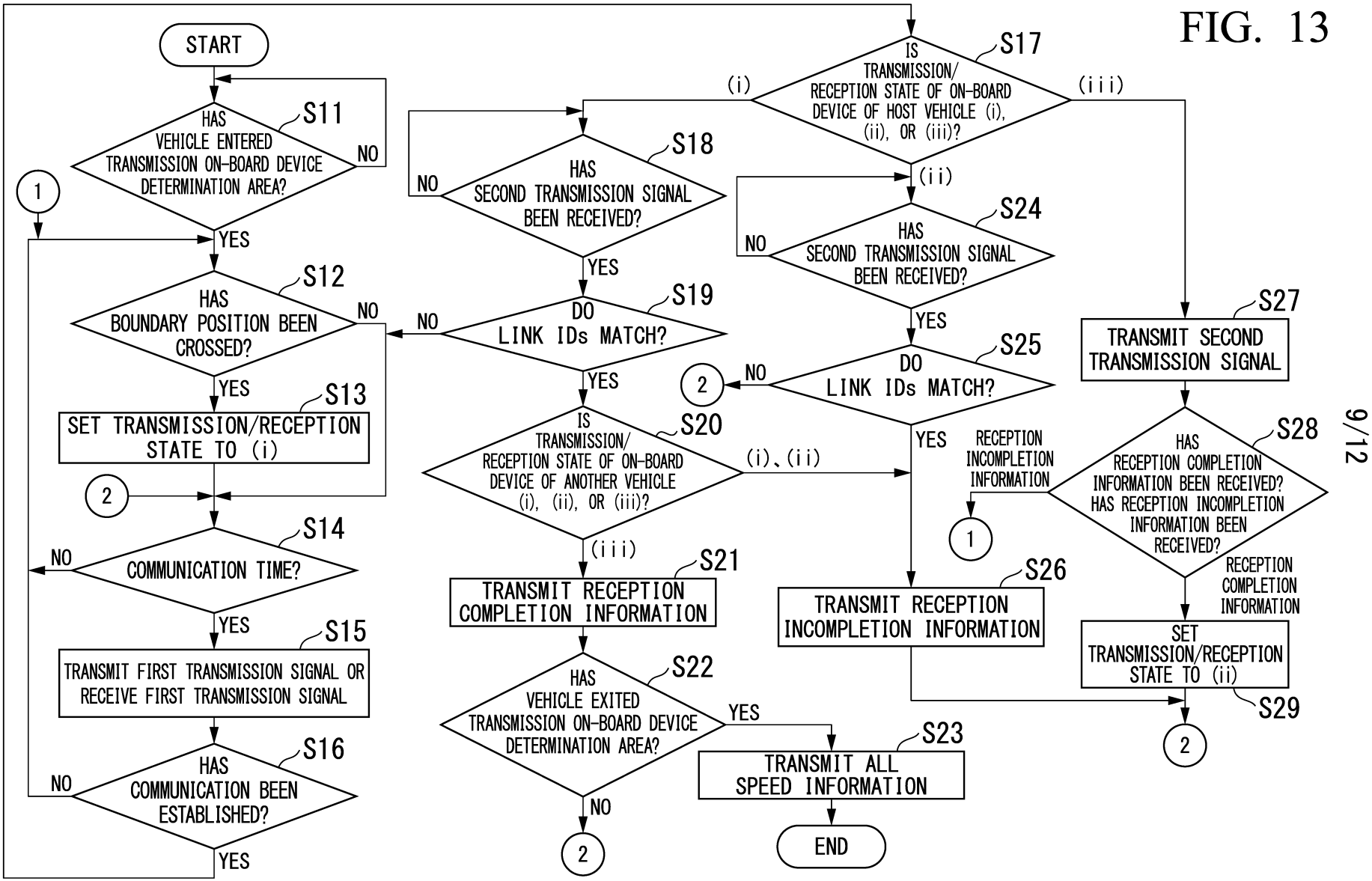

START
S11
HAS VEHICLE ENTERED TRANSMISSION ON-BOARD DEVICE DETERMINATION AREA?
NO
YES
1
S12
HAS BOUNDARY POSITION BEEN CROSSED?
NO
YES
S13
SET TRANSMISSION/RECEPTION STATE TO (i)
2
S14
COMMUNICATION TIME?
NO
YES
S15
TRANSMIT FIRST TRANSMISSION SIGNAL OR RECEIVE FIRST TRANSMISSION SIGNAL
S16
HAS COMMUNICATION BEEN ESTABLISHED?
NO
YES
S17
IS TRANSMISSION/ RECEPTION STATE OF ON-BOARD DEVICE OF HOST VEHICLE (i), (ii), OR (iii)?
(i)
(ii)
(iii)
S18
HAS SECOND TRANSMISSION SIGNAL BEEN RECEIVED?
NO
YES
S19
DO LINK IDs MATCH?
NO
YES
S20
IS TRANSMISSION/ RECEPTION STATE OF ON-BOARD DEVICE OF ANOTHER VEHICLE (i), (ii), OR (iii)?
(i)、(ii)
(iii)
S21
TRANSMIT RECEPTION COMPLETION INFORMATION
S22
HAS VEHICLE EXITED TRANSMISSION ON-BOARD DEVICE DETERMINATION AREA?
YES
NO
2
S23
TRANSMIT ALL SPEED INFORMATION
END
S24
HAS SECOND TRANSMISSION SIGNAL BEEN RECEIVED?
NO
YES
S25
DO LINK IDs MATCH?
NO
2
YES
RECEPTION INCOMPLETION INFORMATION
1
S26
TRANSMIT RECEPTION INCOMPLETION INFORMATION
S27
TRANSMIT SECOND TRANSMISSION SIGNAL
S28
HAS RECEPTION COMPLETION INFORMATION BEEN RECEIVED? HAS RECEPTION INCOMPLETION INFORMATION BEEN RECEIVED?
RECEPTION COMPLETION INFORMATION
S29
SET TRANSMISSION/RECEPTION STATE TO (ii)
2

FIG. 14

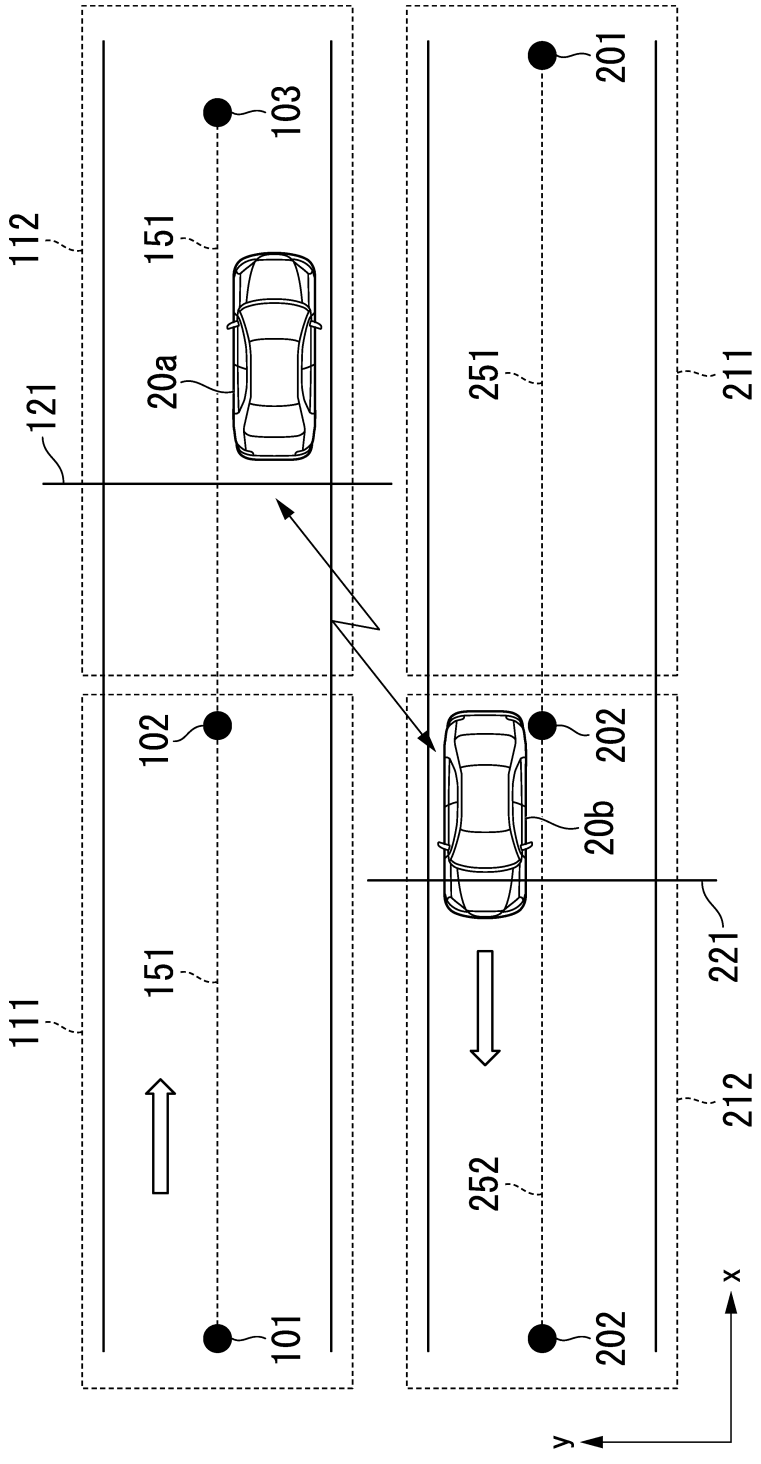

112
151
103
121
20a
251
211
201
102
202
20b
111
151
221
212
252
101
202
x
y

FIG. 15

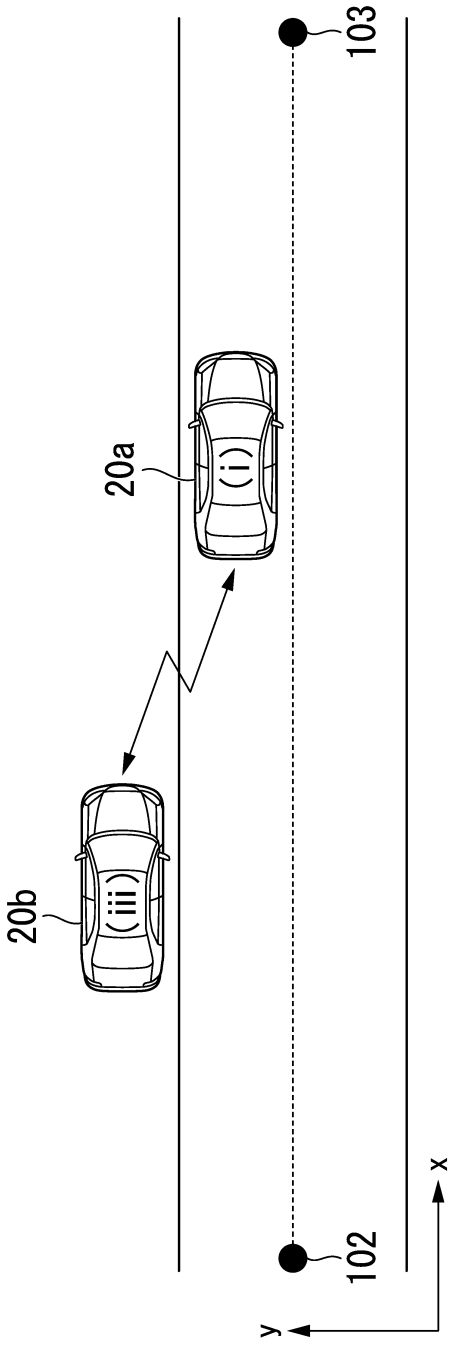


FIG. 16

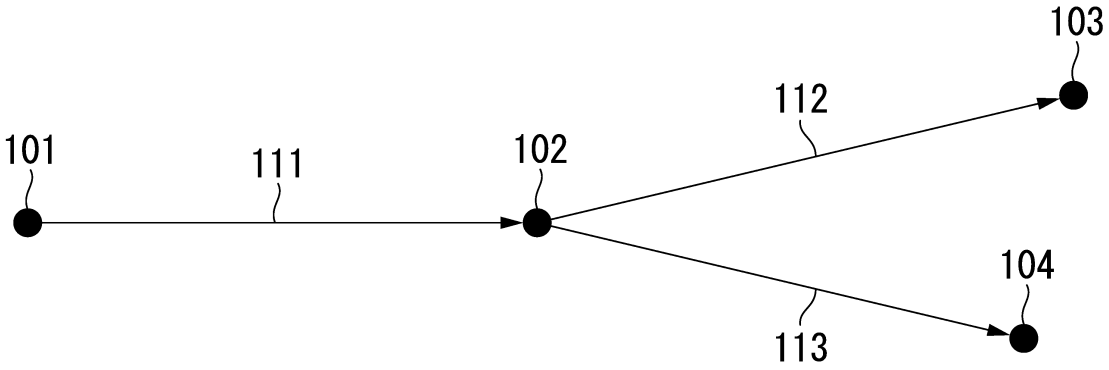


FIG. 17

