FIG. 1

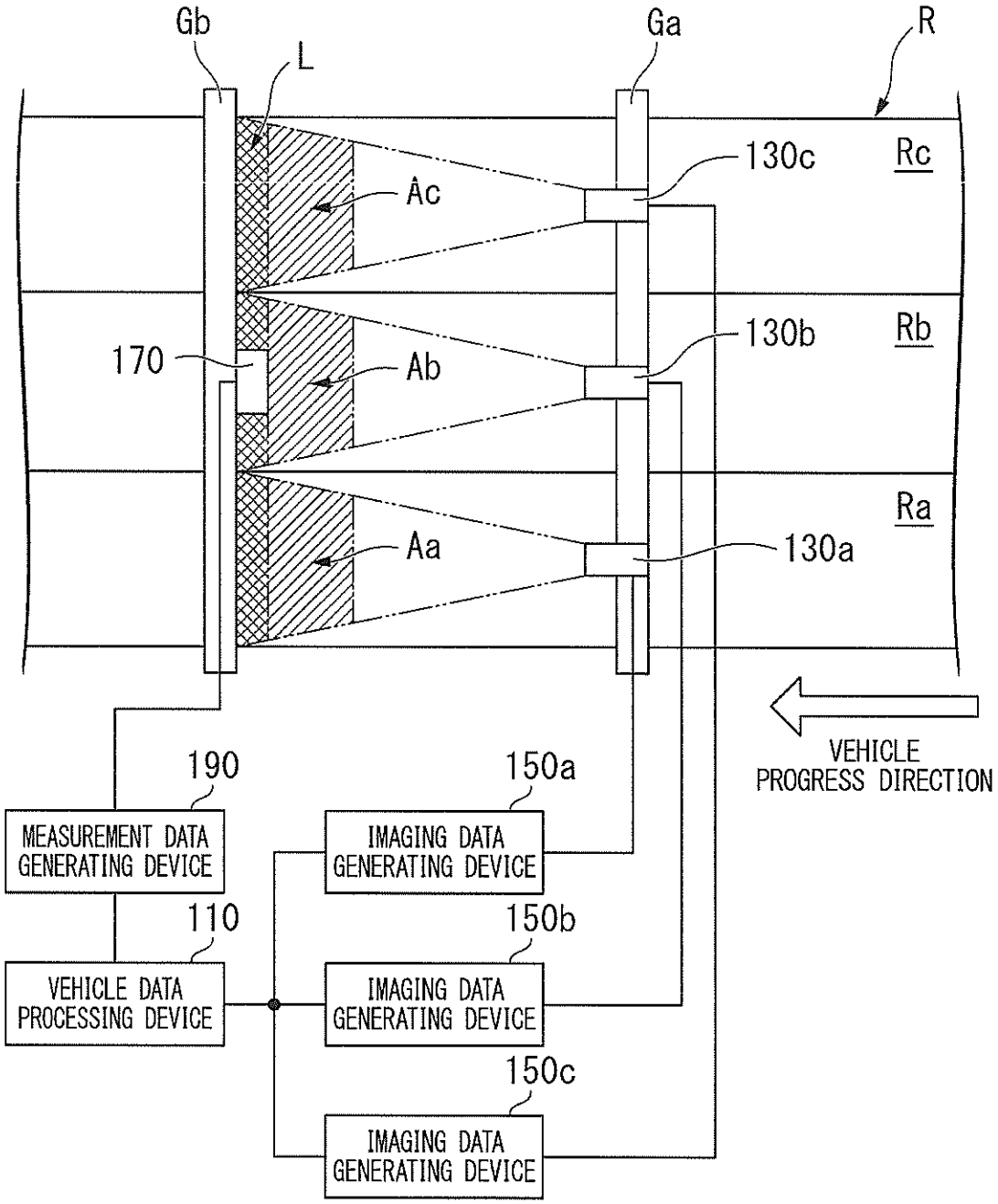

100
Gb
L
Ga
R
130c
Rc
Ac
170
130b
Rb
Ab
Ra
Aa
130a
VEHICLE
PROGRESS DIRECTION
190
MEASUREMENT DATA
GENERATING DEVICE
150a
IMAGING DATA
GENERATING DEVICE
110
VEHICLE DATA
PROCESSING DEVICE
150b
IMAGING DATA
GENERATING DEVICE
150c
IMAGING DATA
GENERATING DEVICE

FIG. 2

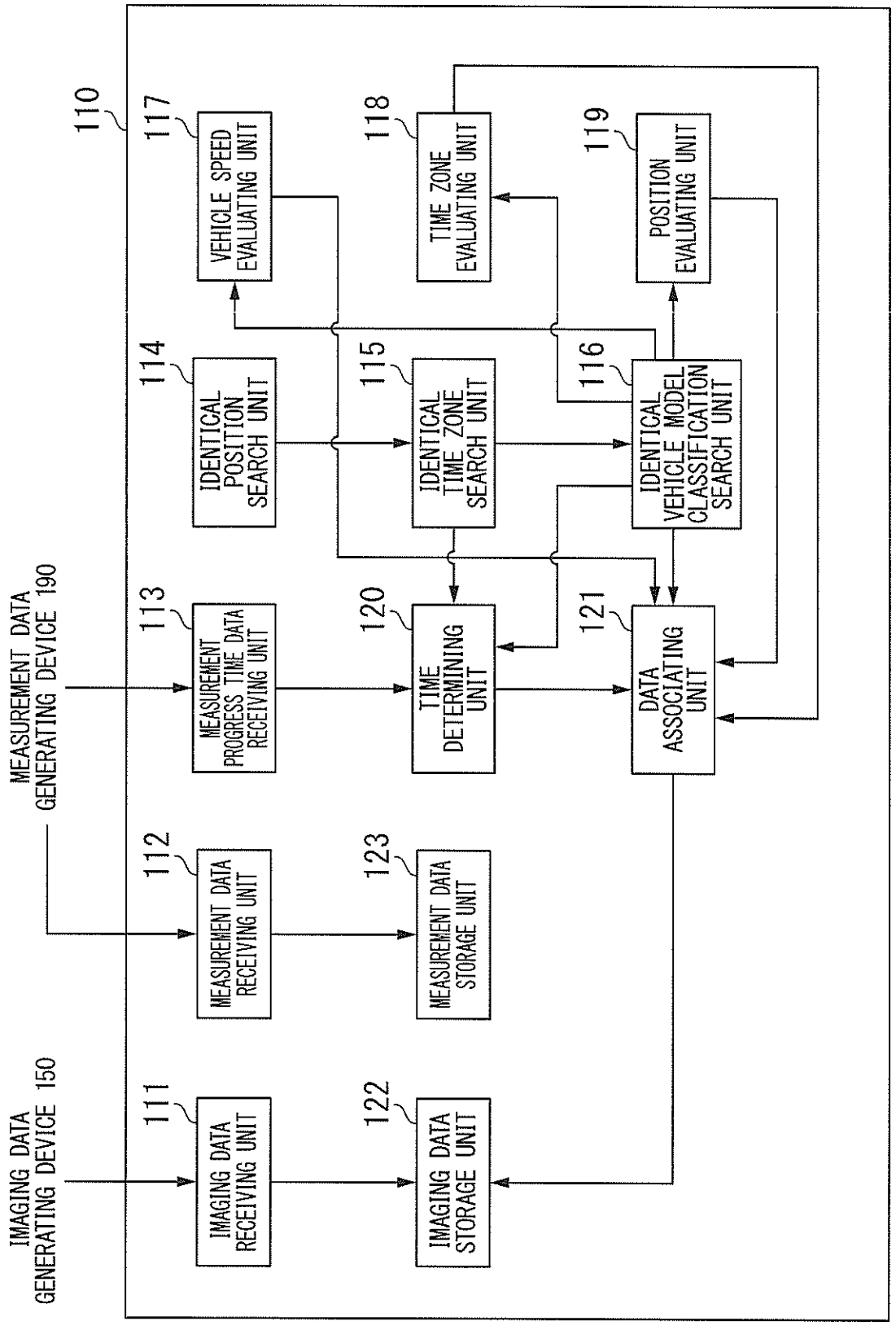

110
IMAGING DATA GENERATING DEVICE 150
MEASUREMENT DATA GENERATING DEVICE 190
111 IMAGING DATA RECEIVING UNIT
112 MEASUREMENT DATA RECEIVING UNIT
113 MEASUREMENT PROGRESS TIME DATA RECEIVING UNIT
114 IDENTICAL POSITION SEARCH UNIT
115 IDENTICAL TIME ZONE SEARCH UNIT
116 IDENTICAL VEHICLE MODEL CLASSIFICATION SEARCH UNIT
117 VEHICLE SPEED EVALUATING UNIT
118 TIME ZONE EVALUATING UNIT
119 POSITION EVALUATING UNIT
120 TIME DETERMINING UNIT
121 DATA ASSOCIATING UNIT
122 IMAGING DATA STORAGE UNIT
123 MEASUREMENT DATA STORAGE UNIT

FIG. 3

122

IMAGING DATA ID	IMAGE ID	VEHICLE NUMBER	NUMBER PLATE TYPE	VEHICLE SPEED (km/h)	CAMERA ID	
D0001	A0048	SZA5792B	STANDARD VEHICLE	75	130a	
D0002	B0326	SBH3518E	STANDARD VEHICLE	79	130b	
D0003	A0059	-	TWO-WHEELED VEHICLE	68	130a	
⋮	⋮	⋮	⋮	⋮	⋮	

FIG. 4

122

IMAGING DATA ID		FIRST IMAGING TIME (YEAR/MONTH/DAY/HOUR:MINUTE:SECOND)	LAST IMAGING TIME (YEAR/MONTH/DAY/HOUR:MINUTE:SECOND)	MEASUREMENT DATA ID	
D0001		2011/07/15/16:08:20.05	2011/07/15/16:08:20.20	D1003	
D0002		2011/07/15/16:08:20.10	2011/07/15/16:08:20.20	D1001	
D0003		2011/07/15/16:08:21.05	2011/07/15/16:08:21.25	–	
⋮		⋮	⋮	⋮	

FIG. 5

123

MEASUREMENT DATA ID	MEASUREMENT POSITION	VEHICLE LENGTH (mm)	VEHICLE WIDTH (mm)	VEHICLE HEIGHT (mm)	VEHICLE SPEED (km/h)	
D1001	○○~○○	4800	1800	1500	80	
D1002	○○~○○	1700	800	1000	69	
D1003	○○~○○	4600	1700	1500	76	
⋮	⋮	⋮	⋮	⋮	⋮	

FIG. 6

123

MEASUREMENT DATA ID		MEASUREMENT START TIME (YEAR/MONTH/DAY/HOUR:MINUTE:SECOND)	MEASUREMENT END TIME (YEAR/MONTH/DAY/HOUR:MINUTE:SECOND)	IMAGING DATA ID
D1001		2011/07/15/16:08:20.11	2011/07/15/16:08:20.22	D0002
D1002		2011/07/15/16:08:21.06	2011/07/15/16:08:21.27	-
D1003		2011/07/15/16:08:20.06	2011/07/15/16:08:20.22	D0001
⋮		⋮	⋮	⋮

FIG. 7

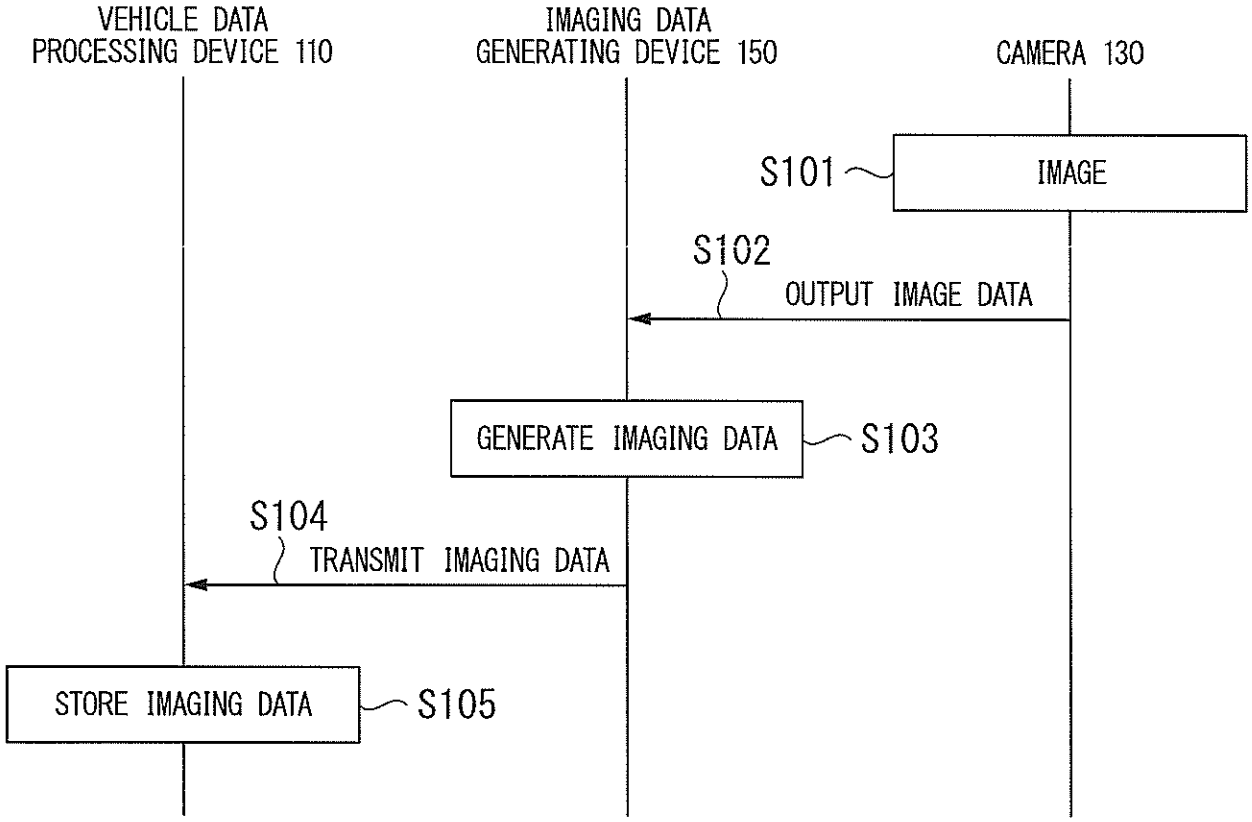

VEHICLE DATA PROCESSING DEVICE 110
IMAGING DATA GENERATING DEVICE 150
CAMERA 130
S101
IMAGE
S102
OUTPUT IMAGE DATA
GENERATE IMAGING DATA
S103
S104
TRANSMIT IMAGING DATA
STORE IMAGING DATA
S105

FIG. 8

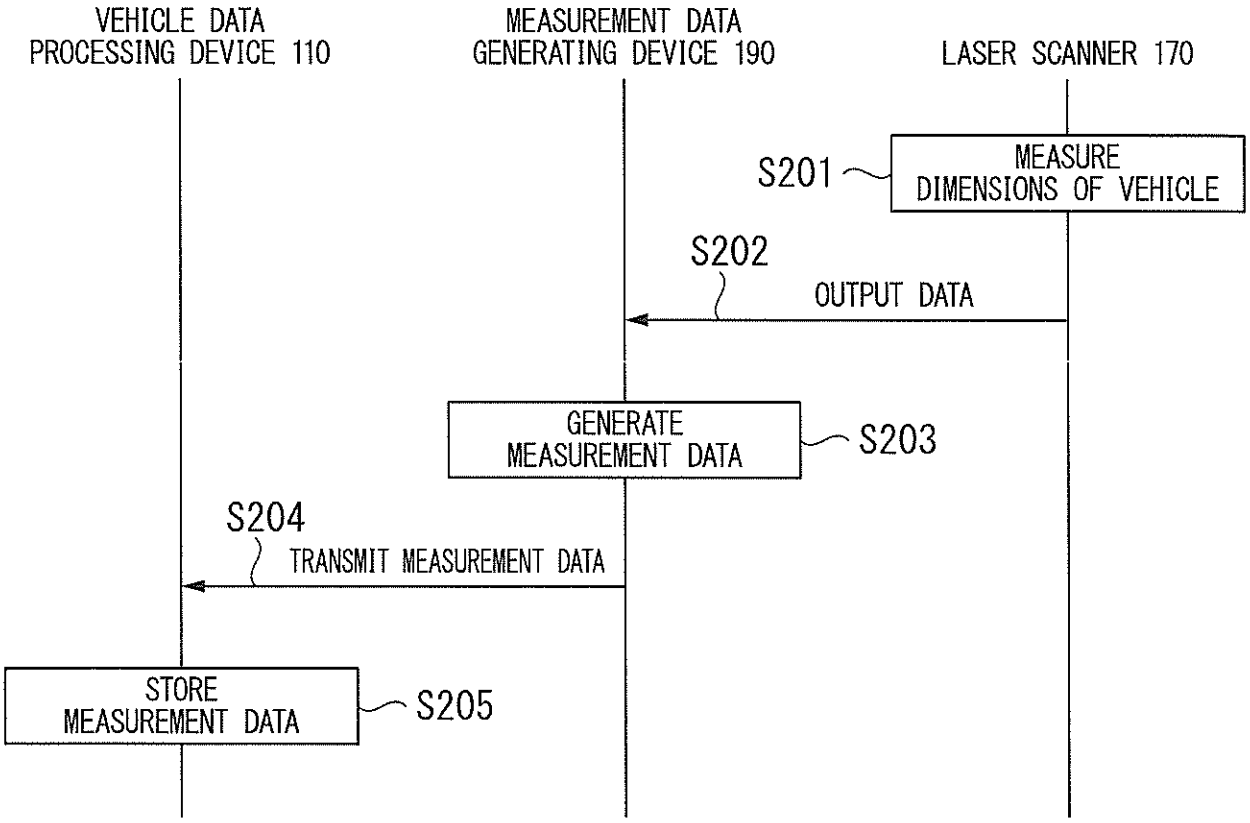

VEHICLE DATA PROCESSING DEVICE 110
MEASUREMENT DATA GENERATING DEVICE 190
LASER SCANNER 170
S201
MEASURE DIMENSIONS OF VEHICLE
S202
OUTPUT DATA
GENERATE MEASUREMENT DATA
S203
S204
TRANSMIT MEASUREMENT DATA
STORE MEASUREMENT DATA
S205

FIG. 9

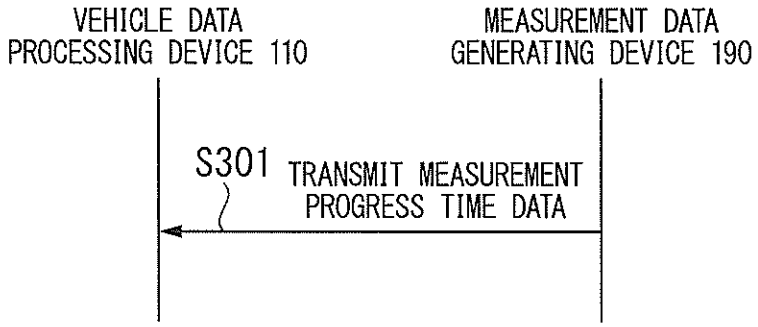

VEHICLE DATA PROCESSING DEVICE 110
MEASUREMENT DATA GENERATING DEVICE 190
S301
TRANSMIT MEASUREMENT PROGRESS TIME DATA

FIG. 10

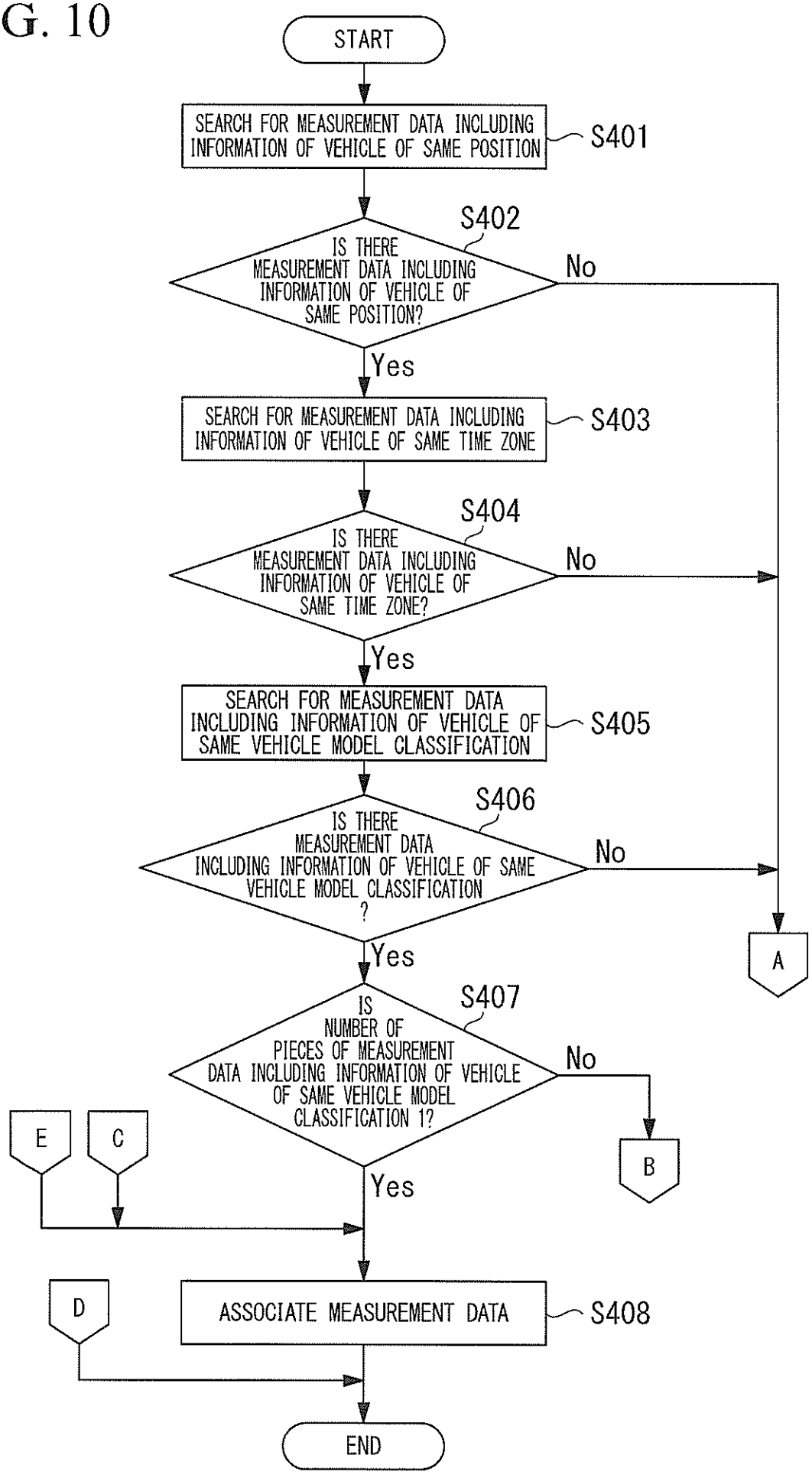

START
SEARCH FOR MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME POSITION
S401
S402
IS THERE MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME POSITION?
No
Yes
SEARCH FOR MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME TIME ZONE
S403
S404
IS THERE MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME TIME ZONE?
No
Yes
SEARCH FOR MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME VEHICLE MODEL CLASSIFICATION
S405
S406
IS THERE MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME VEHICLE MODEL CLASSIFICATION ?
No
Yes
A
S407
IS NUMBER OF PIECES OF MEASUREMENT DATA INCLUDING INFORMATION OF VEHICLE OF SAME VEHICLE MODEL CLASSIFICATION 1?
No
B
Yes
E
C
D
ASSOCIATE MEASUREMENT DATA
S408
END

FIG. 11

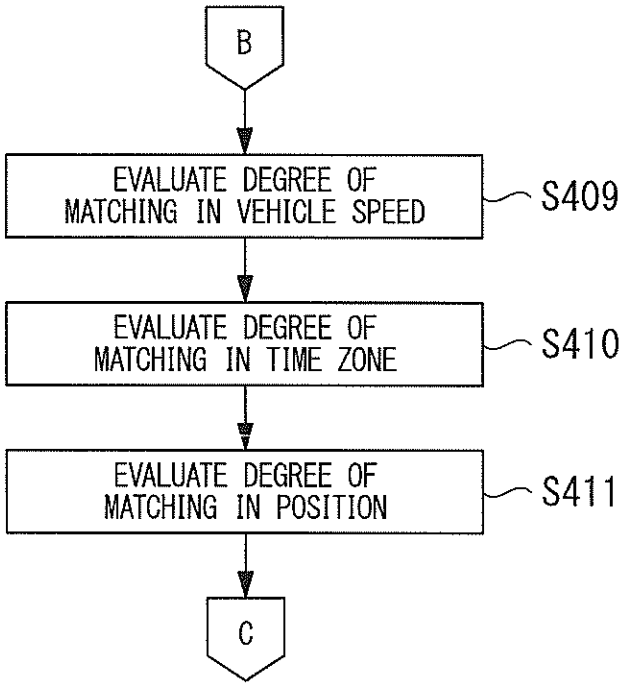

B
EVALUATE DEGREE OF MATCHING IN VEHICLE SPEED
S409
EVALUATE DEGREE OF MATCHING IN TIME ZONE
S410
EVALUATE DEGREE OF MATCHING IN POSITION
S411
C

FIG. 12

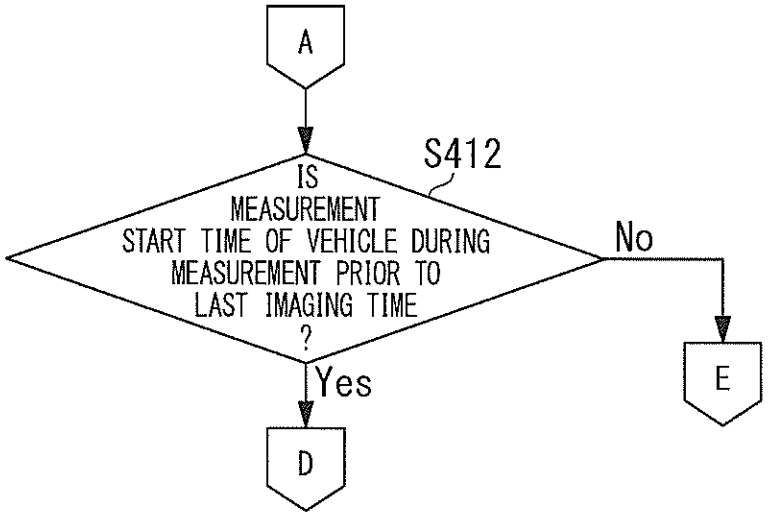

A
S412
IS MEASUREMENT START TIME OF VEHICLE DURING MEASUREMENT PRIOR TO LAST IMAGING TIME ?
No
Yes
E
D

FIG. 13

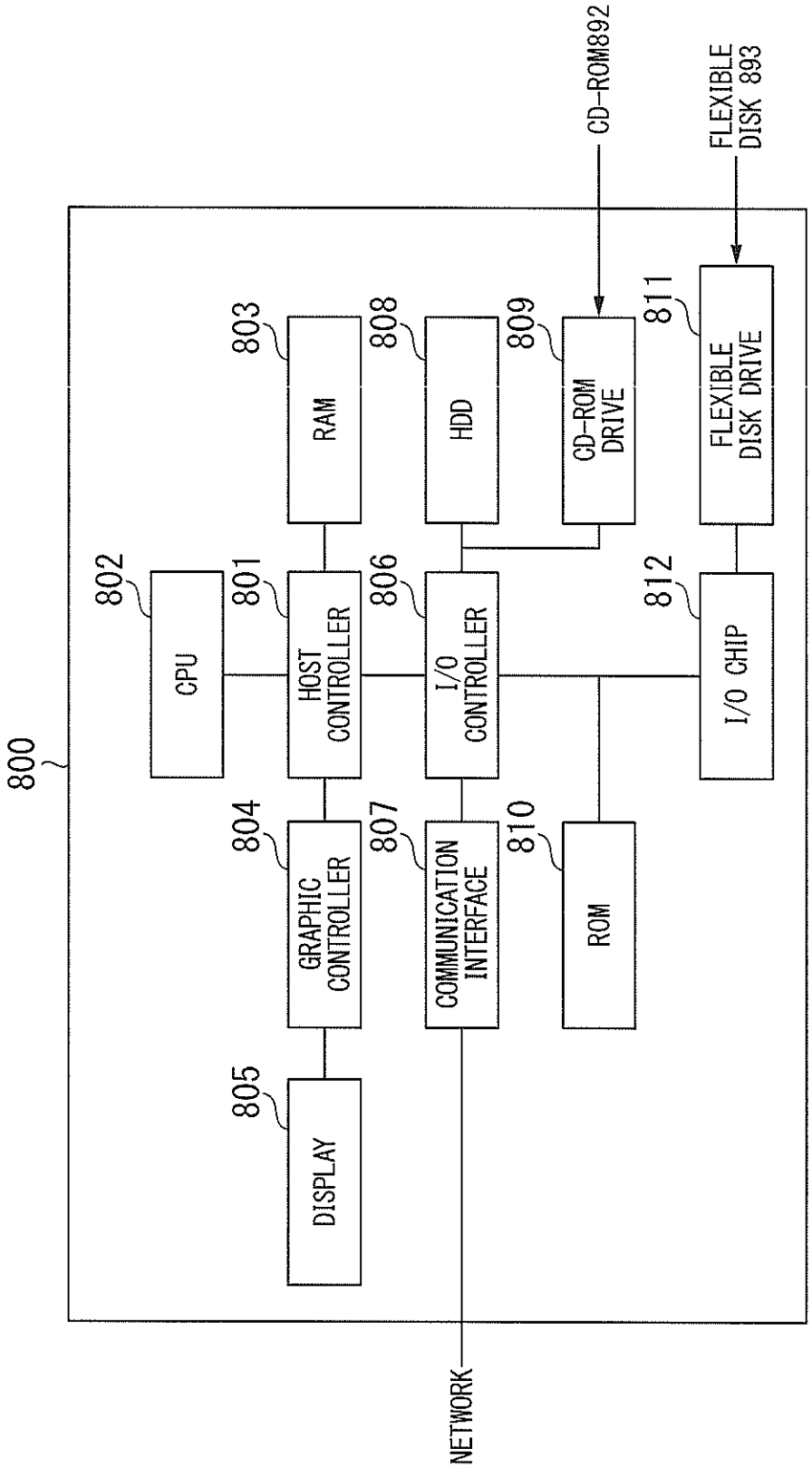
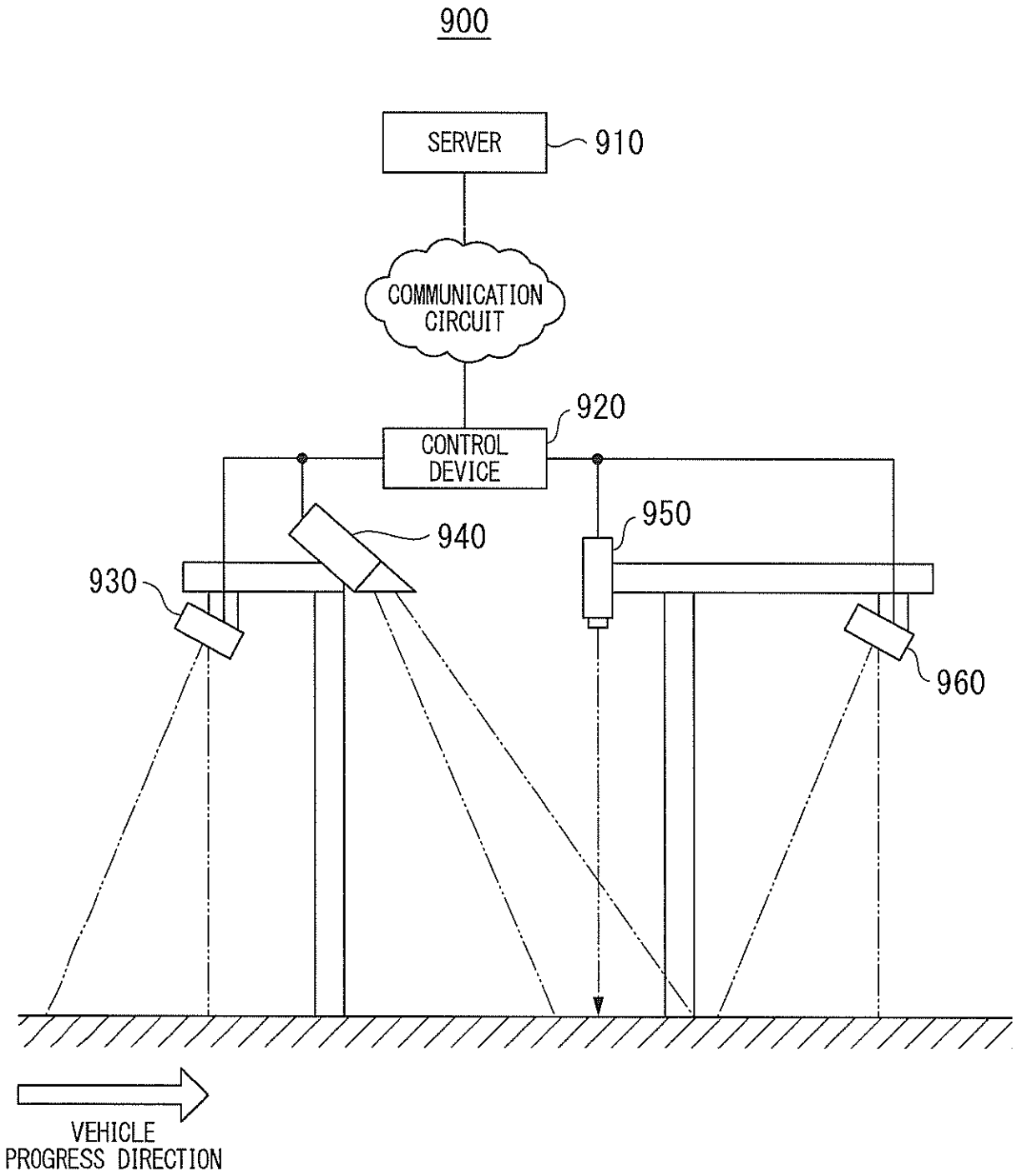

800
CPU
802
HOST CONTROLLER
801
I/O CONTROLLER
806
I/O CHIP
812
RAM
803
HDD
808
CD-ROM DRIVE
809
FLEXIBLE DISK DRIVE
811
GRAPHIC CONTROLLER
804
COMMUNICATION INTERFACE
807
ROM
810
DISPLAY
805
CD-ROM892
FLEXIBLE DISK 893
NETWORK

FIG. 14


900
SERVER
910
COMMUNICATION CIRCUIT
920
CONTROL DEVICE
940
950
930
960
VEHICLE PROGRESS DIRECTION