FIG. 1

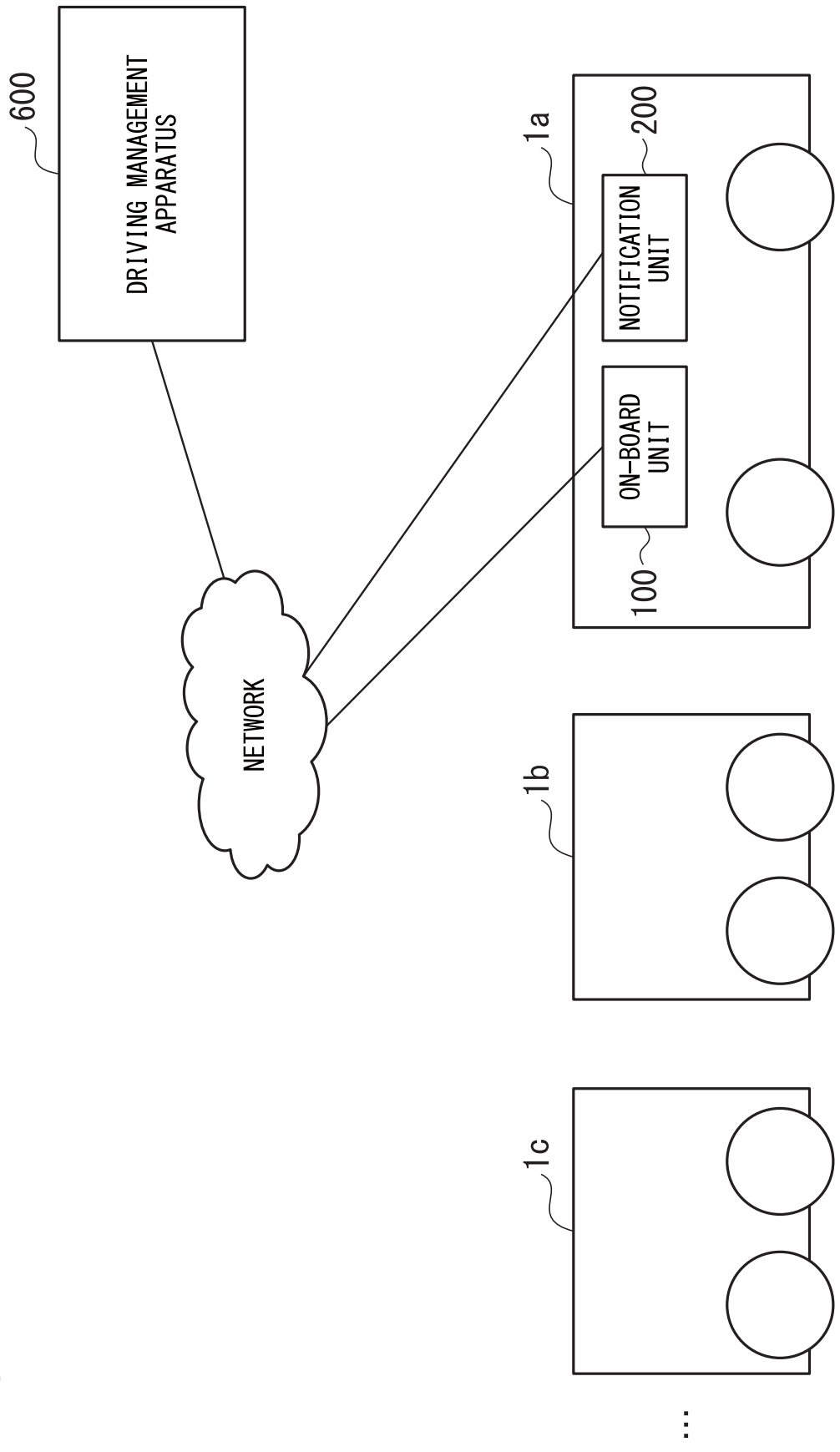

600
DRIVING MANAGEMENT APPARATUS
NETWORK
1a
200
NOTIFICATION UNIT
ON-BOARD UNIT
100
1b
1c
...

FIG. 2

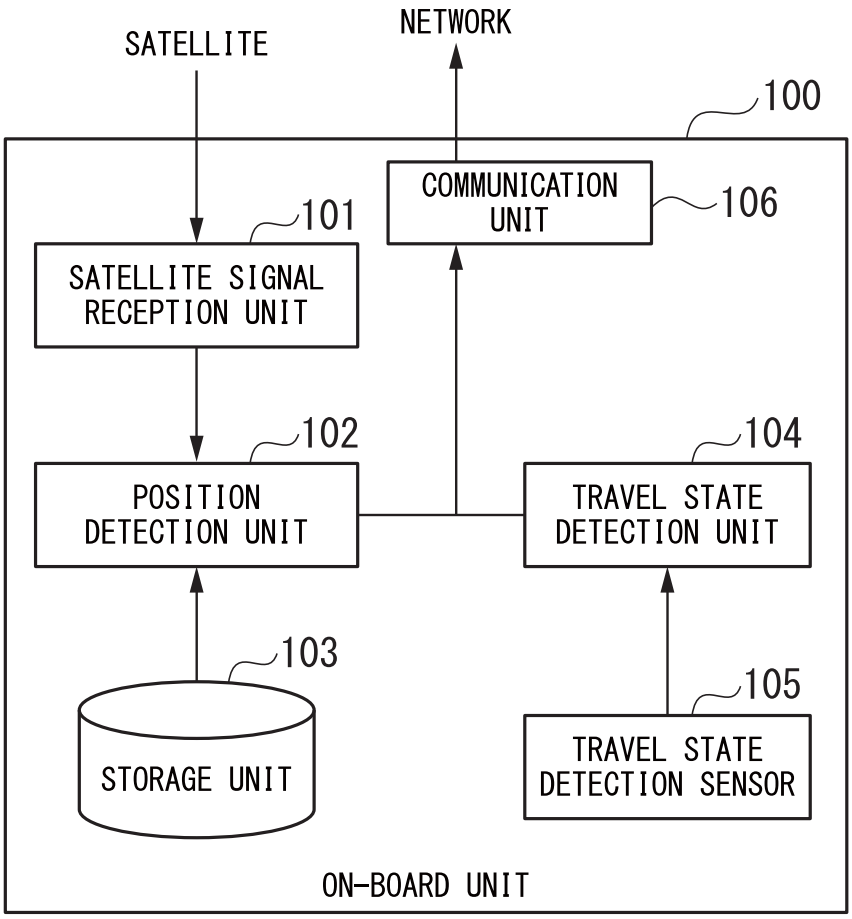

SATELLITE
NETWORK
100
COMMUNICATION UNIT
106
101
SATELLITE SIGNAL RECEPTION UNIT
102
POSITION DETECTION UNIT
104
TRAVEL STATE DETECTION UNIT
103
STORAGE UNIT
105
TRAVEL STATE DETECTION SENSOR
ON-BOARD UNIT

FIG. 3

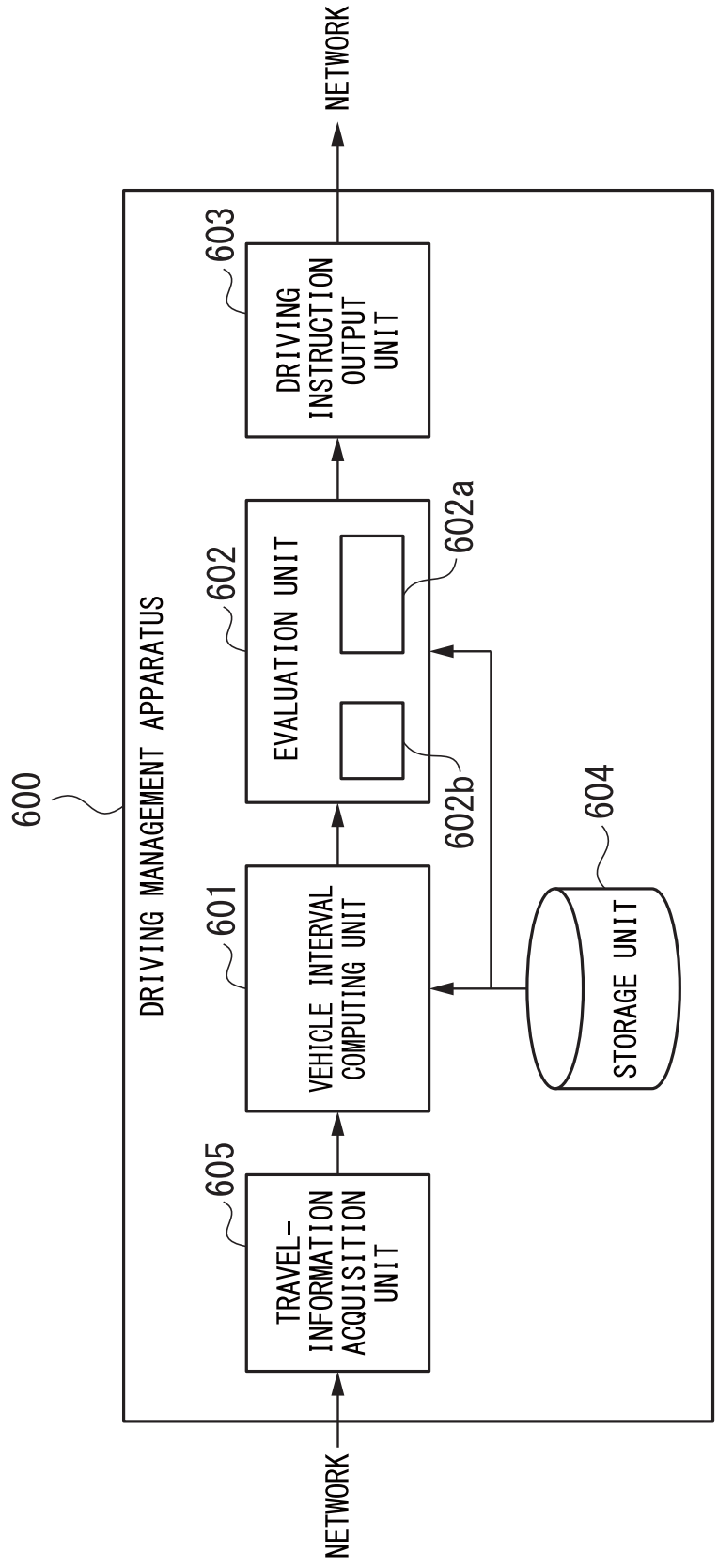

NETWORK
600
DRIVING MANAGEMENT APPARATUS
605
TRAVEL-INFORMATION ACQUISITION UNIT
601
VEHICLE INTERVAL COMPUTING UNIT
602
EVALUATION UNIT
602a
602b
603
DRIVING INSTRUCTION OUTPUT UNIT
604
STORAGE UNIT
NETWORK

FIG. 4

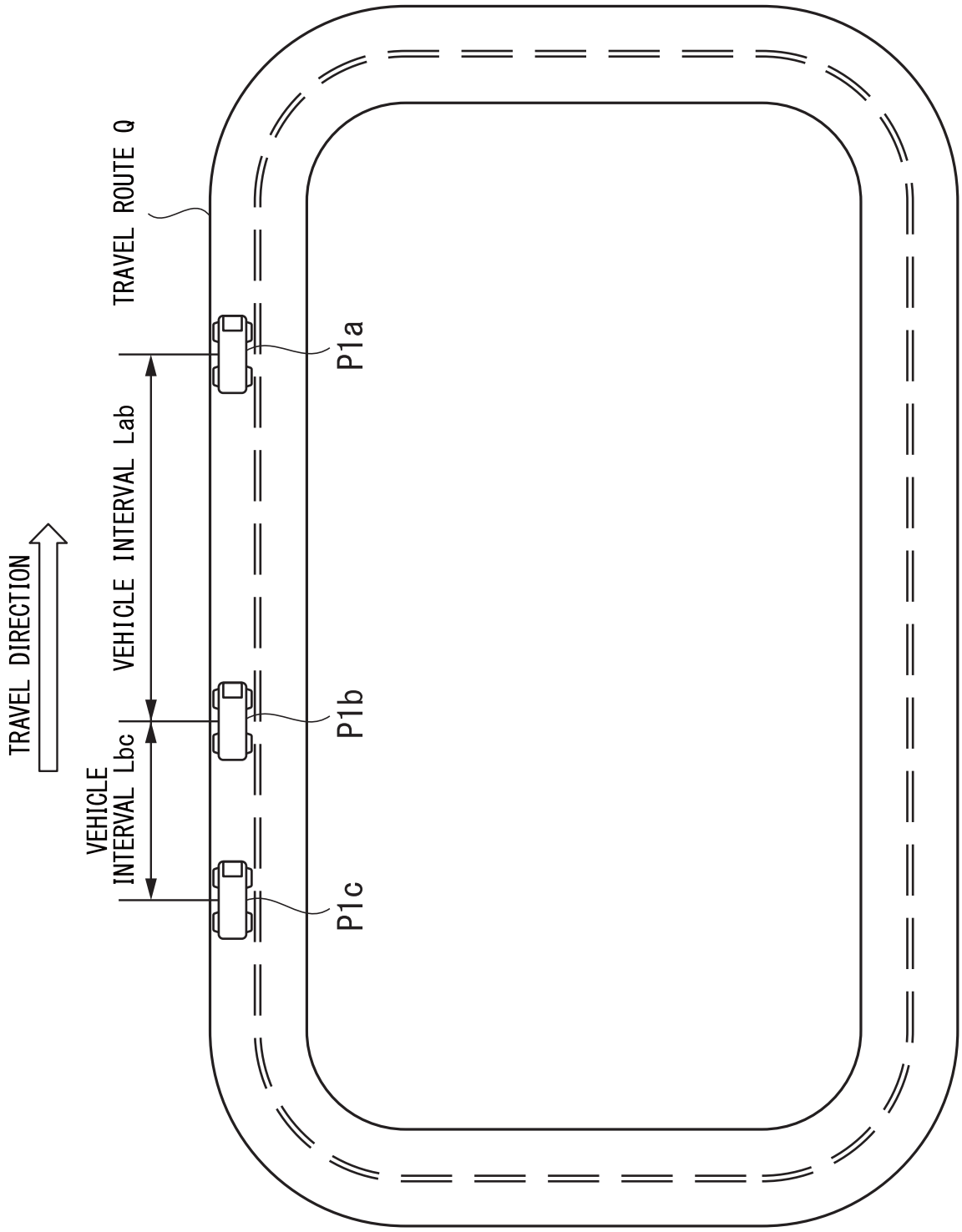

TRAVEL ROUTE Q
P1a
P1b
P1c
VEHICLE INTERVAL Lab
VEHICLE INTERVAL Lbc
TRAVEL DIRECTION

FIG. 5

<EVALUATION TABLE>

VEHICLE NUMBER	EVALUATION SCORE
CAR 1 (VEHICLE 1a)	-5
CAR 2 (VEHICLE 1b)	-5
CAR 3 (VEHICLE 1c)	0
⋮	⋮

FIG. 6

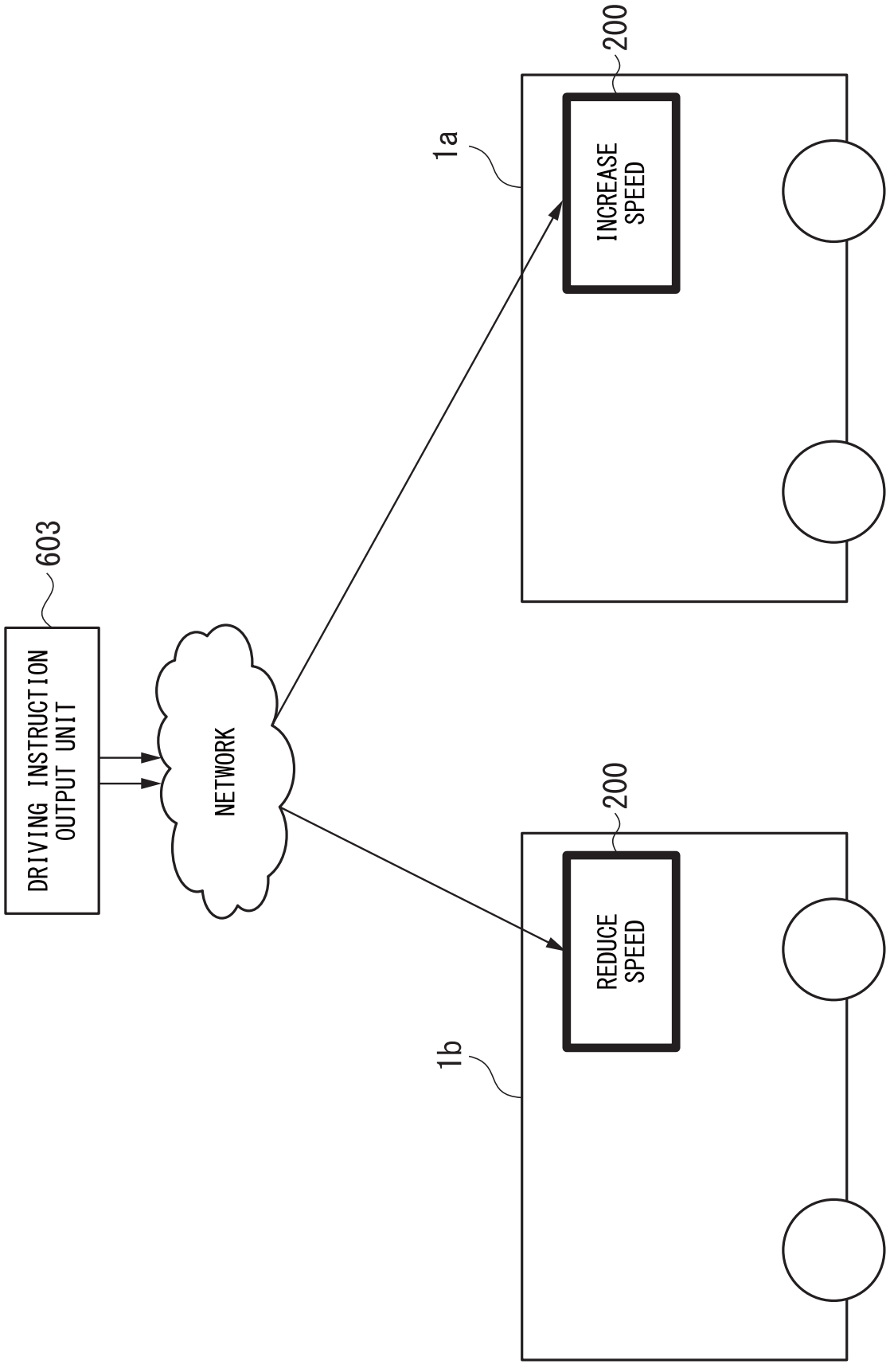

603
DRIVING INSTRUCTION OUTPUT UNIT
NETWORK
1a
200
INCREASE SPEED
1b
200
REDUCE SPEED

FIG. 7

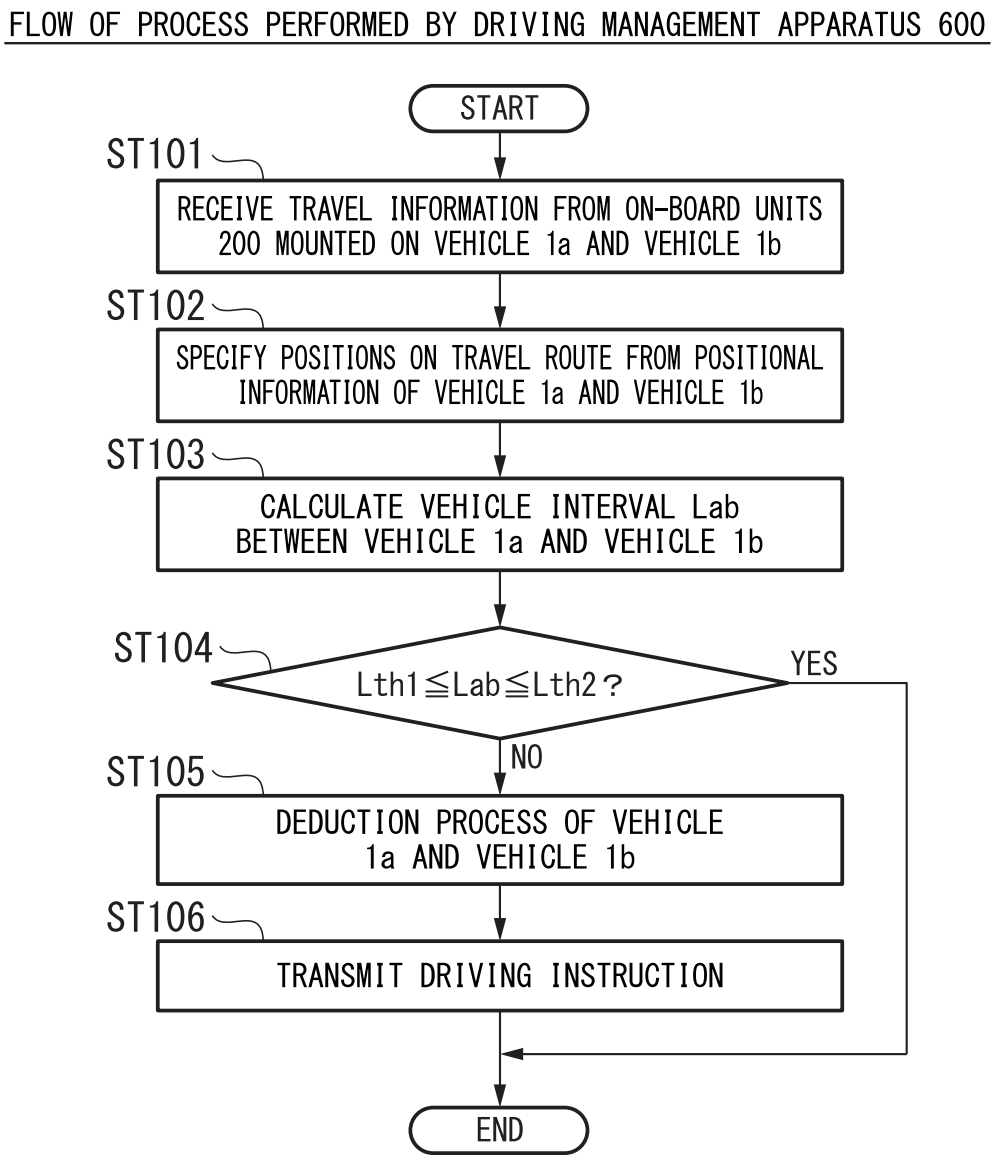

FLOW OF PROCESS PERFORMED BY DRIVING MANAGEMENT APPARATUS 600
START
ST101
RECEIVE TRAVEL INFORMATION FROM ON-BOARD UNITS 200 MOUNTED ON VEHICLE 1a AND VEHICLE 1b
ST102
SPECIFY POSITIONS ON TRAVEL ROUTE FROM POSITIONAL INFORMATION OF VEHICLE 1a AND VEHICLE 1b
ST103
CALCULATE VEHICLE INTERVAL Lab BETWEEN VEHICLE 1a AND VEHICLE 1b
ST104
Lth1≦Lab≦Lth2？
YES
NO
ST105
DEDUCTION PROCESS OF VEHICLE 1a AND VEHICLE 1b
ST106
TRANSMIT DRIVING INSTRUCTION
END

FIG. 8

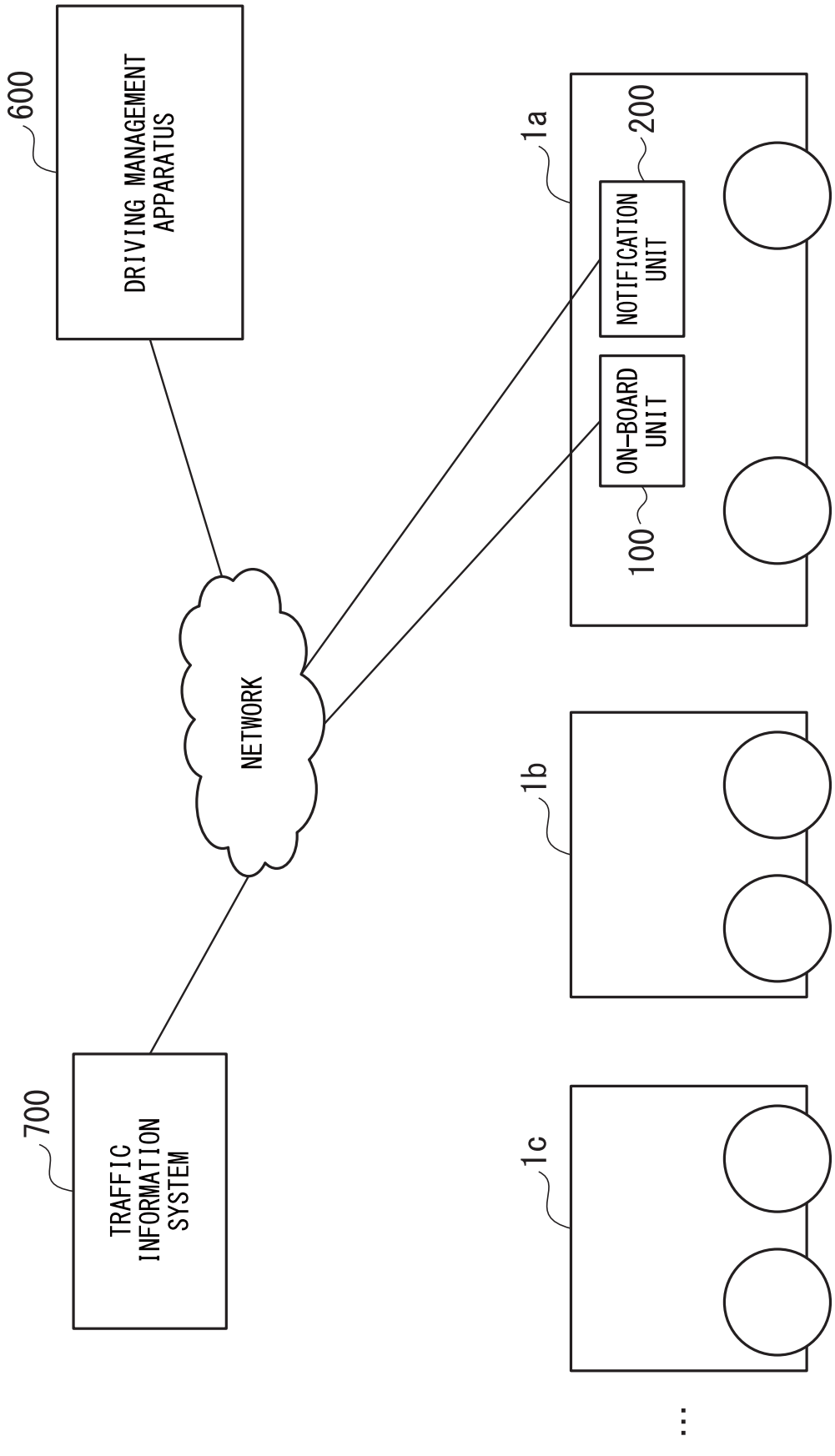

600
DRIVING MANAGEMENT APPARATUS
NETWORK
700
TRAFFIC INFORMATION SYSTEM
1a
200
NOTIFICATION UNIT
ON-BOARD UNIT
100
1b
1c
...

FIG. 9

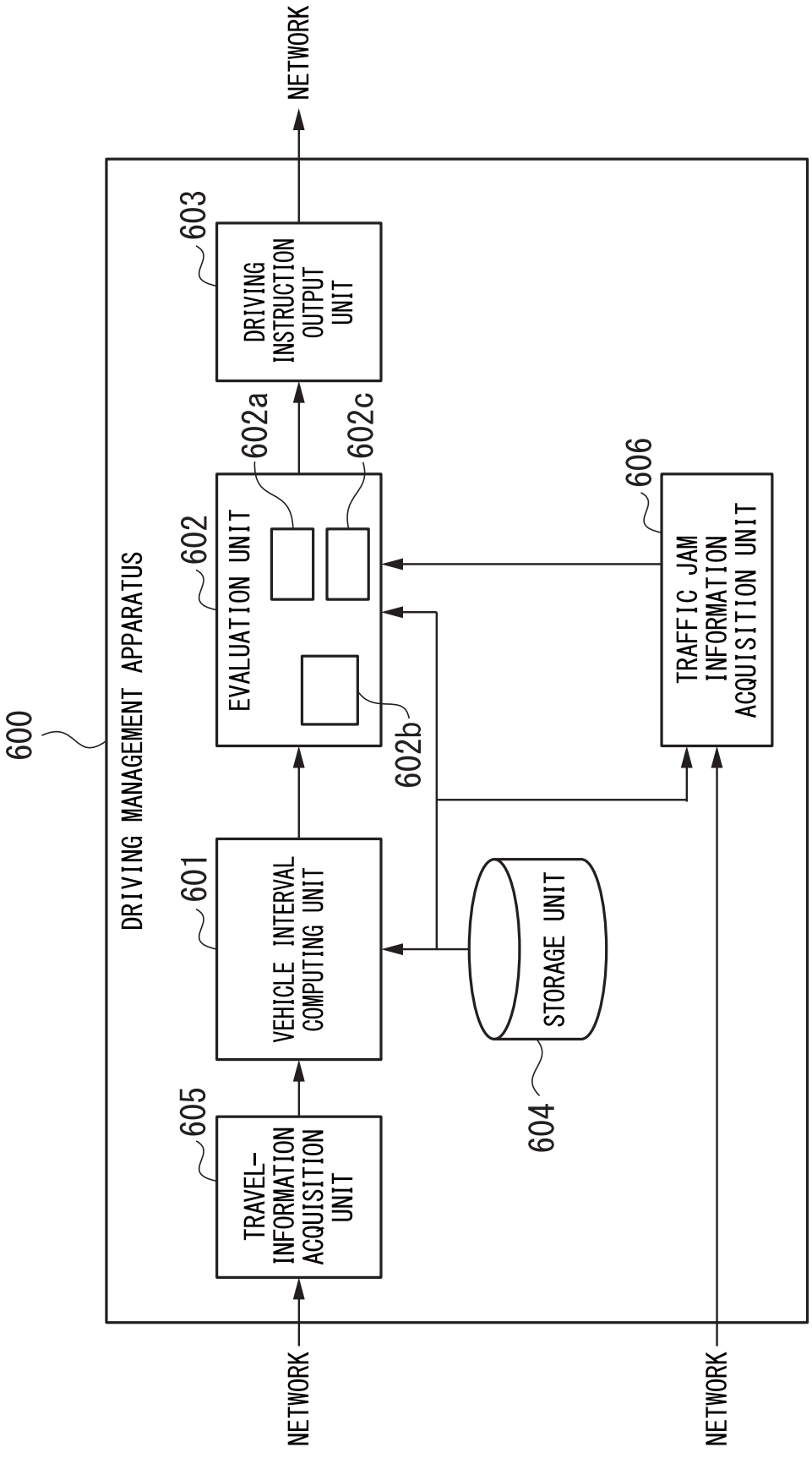

NETWORK
600
DRIVING MANAGEMENT APPARATUS
603
DRIVING INSTRUCTION OUTPUT UNIT
602a
602c
602
EVALUATION UNIT
602b
606
TRAFFIC JAM INFORMATION ACQUISITION UNIT
601
VEHICLE INTERVAL COMPUTING UNIT
STORAGE UNIT
604
605
TRAVEL-INFORMATION ACQUISITION UNIT
NETWORK
NETWORK

FIG. 10

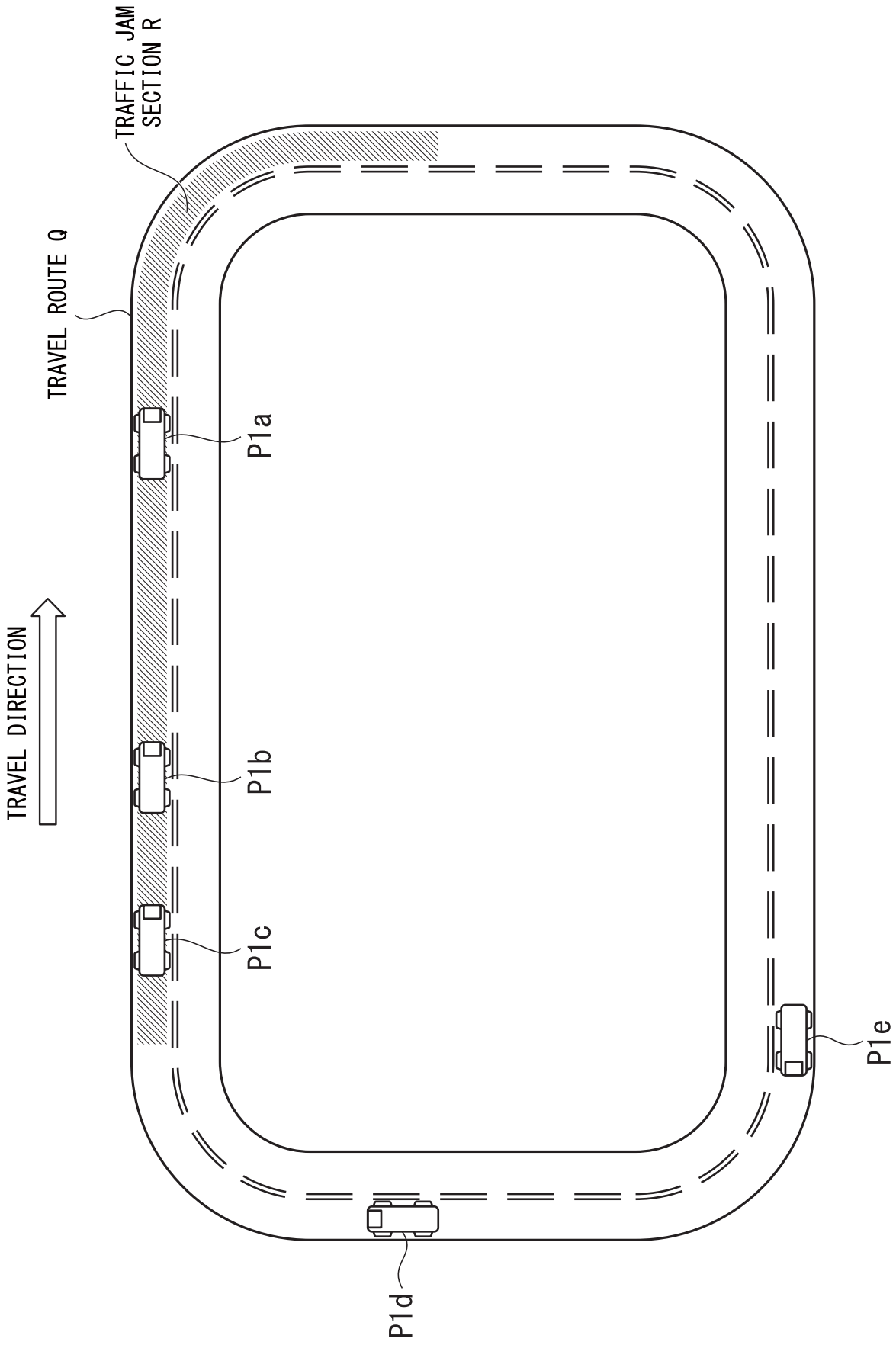

TRAFFIC JAM SECTION R
TRAVEL ROUTE Q
TRAVEL DIRECTION
P1a
P1b
P1c
P1d
P1e

FIG. 11

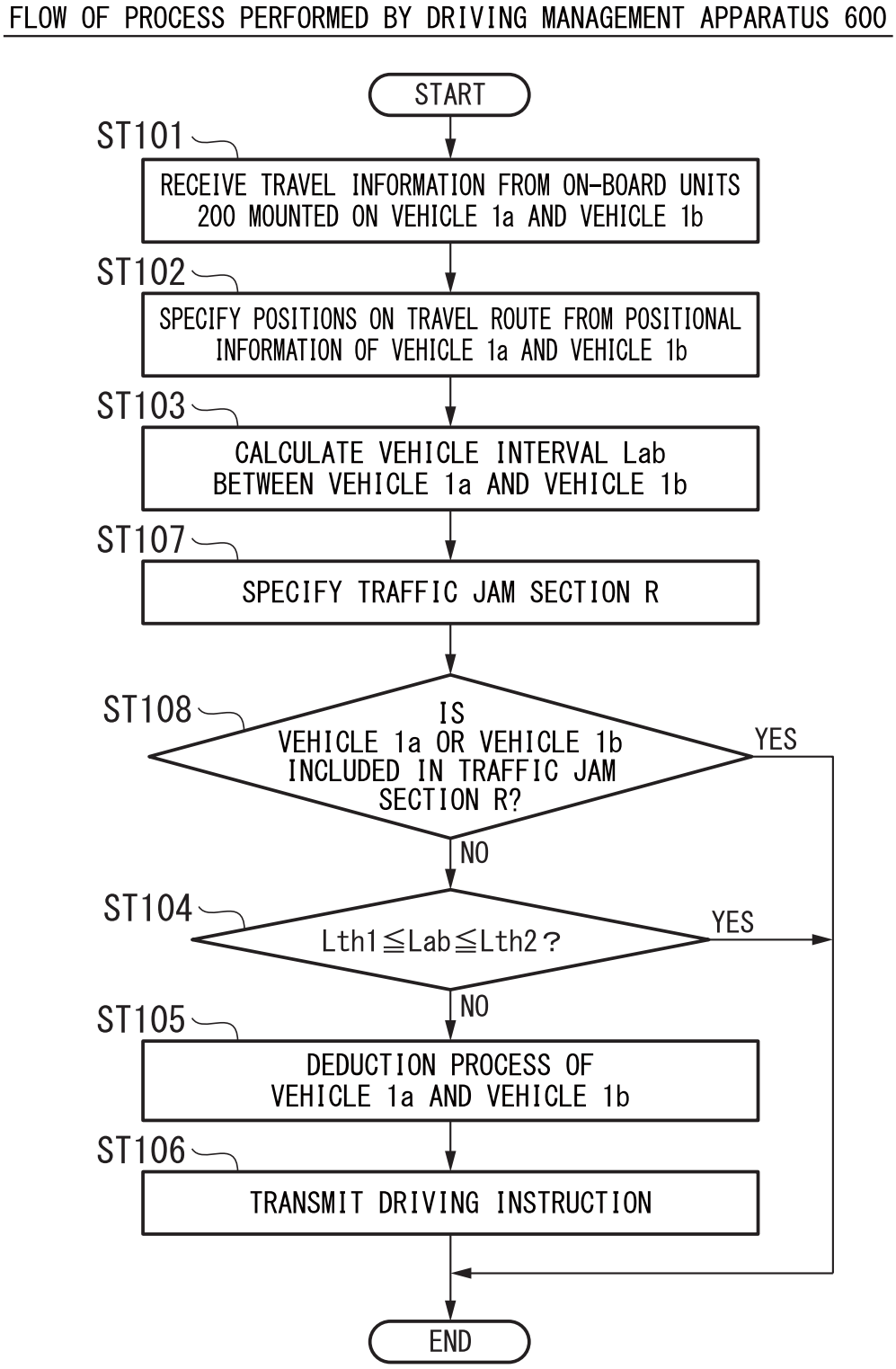

FLOW OF PROCESS PERFORMED BY DRIVING MANAGEMENT APPARATUS 600
START
ST101
RECEIVE TRAVEL INFORMATION FROM ON-BOARD UNITS 200 MOUNTED ON VEHICLE 1a AND VEHICLE 1b
ST102
SPECIFY POSITIONS ON TRAVEL ROUTE FROM POSITIONAL INFORMATION OF VEHICLE 1a AND VEHICLE 1b
ST103
CALCULATE VEHICLE INTERVAL Lab BETWEEN VEHICLE 1a AND VEHICLE 1b
ST107
SPECIFY TRAFFIC JAM SECTION R
ST108
IS VEHICLE 1a OR VEHICLE 1b INCLUDED IN TRAFFIC JAM SECTION R?
YES
NO
ST104
Lth1≦Lab≦Lth2?
YES
NO
ST105
DEDUCTION PROCESS OF VEHICLE 1a AND VEHICLE 1b
ST106
TRANSMIT DRIVING INSTRUCTION
END

FIG. 12

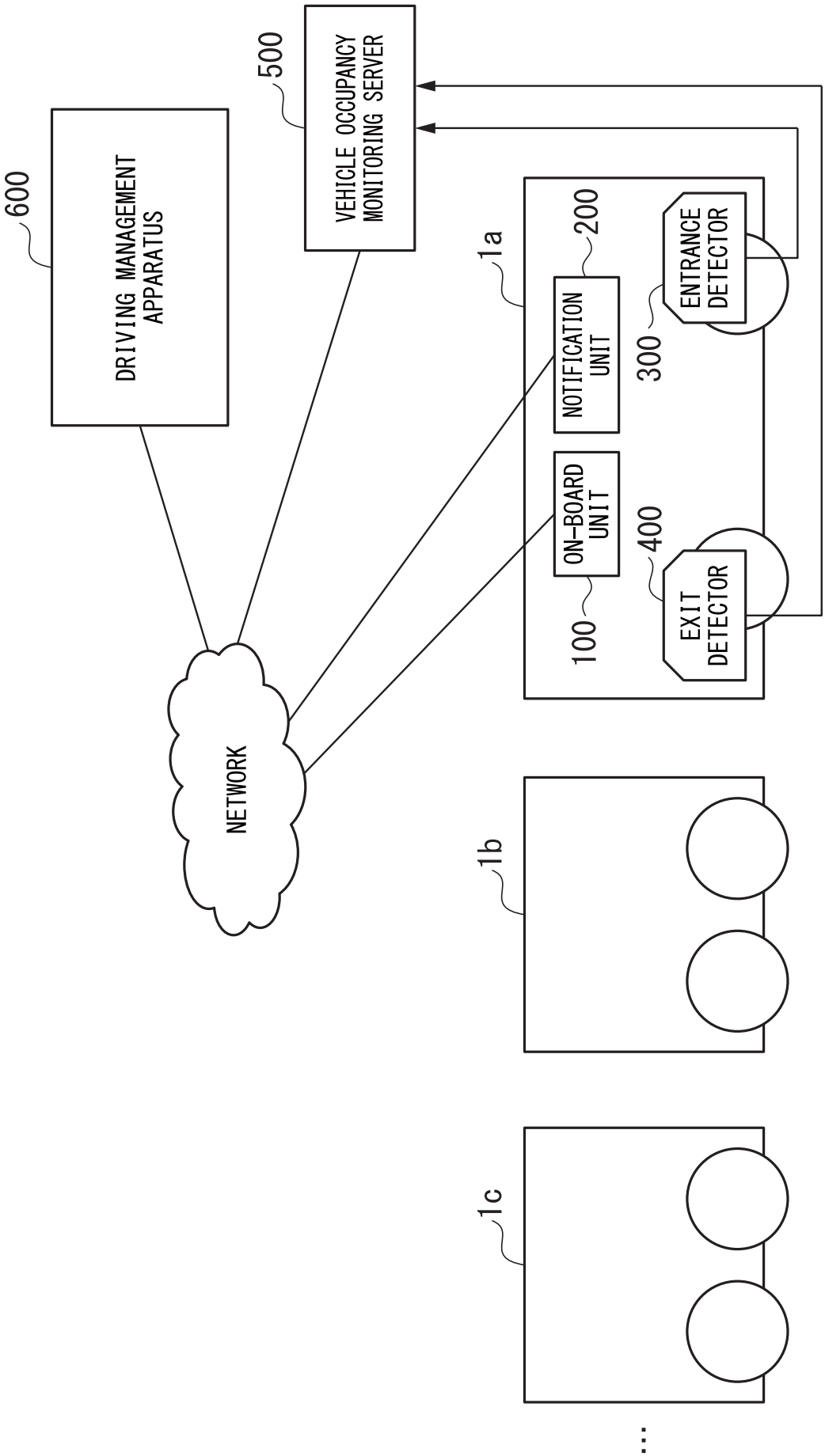

600
DRIVING MANAGEMENT APPARATUS
500
VEHICLE OCCUPANCY MONITORING SERVER
NETWORK
1a
1b
1c
...
100
ON-BOARD UNIT
200
NOTIFICATION UNIT
300
ENTRANCE DETECTOR
400
EXIT DETECTOR

FIG. 13

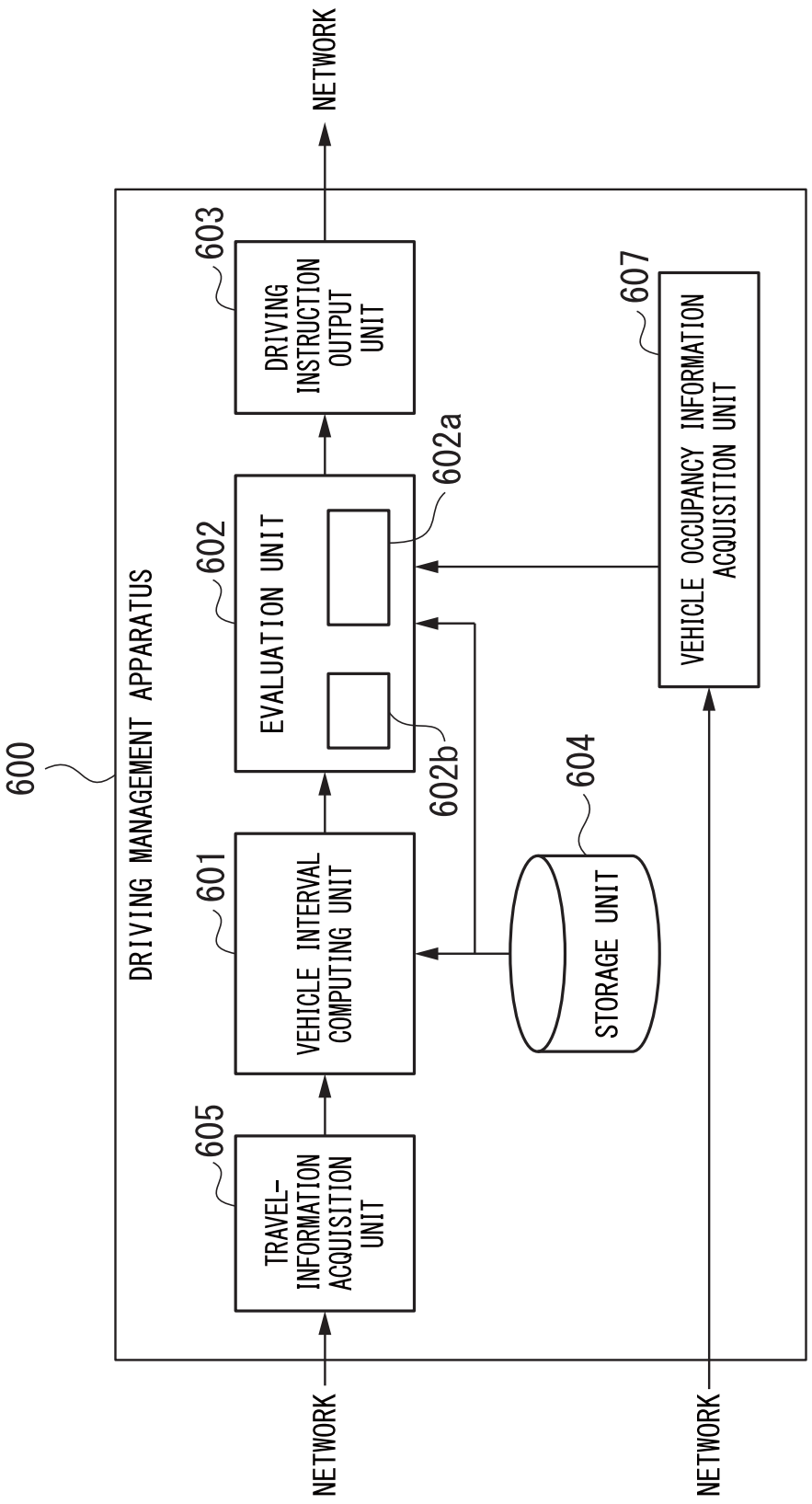

NETWORK
600
DRIVING MANAGEMENT APPARATUS
603
DRIVING INSTRUCTION OUTPUT UNIT
602
EVALUATION UNIT
602a
602b
601
VEHICLE INTERVAL COMPUTING UNIT
605
TRAVEL-INFORMATION ACQUISITION UNIT
604
STORAGE UNIT
607
VEHICLE OCCUPANCY INFORMATION ACQUISITION UNIT
NETWORK
NETWORK

FIG. 14A

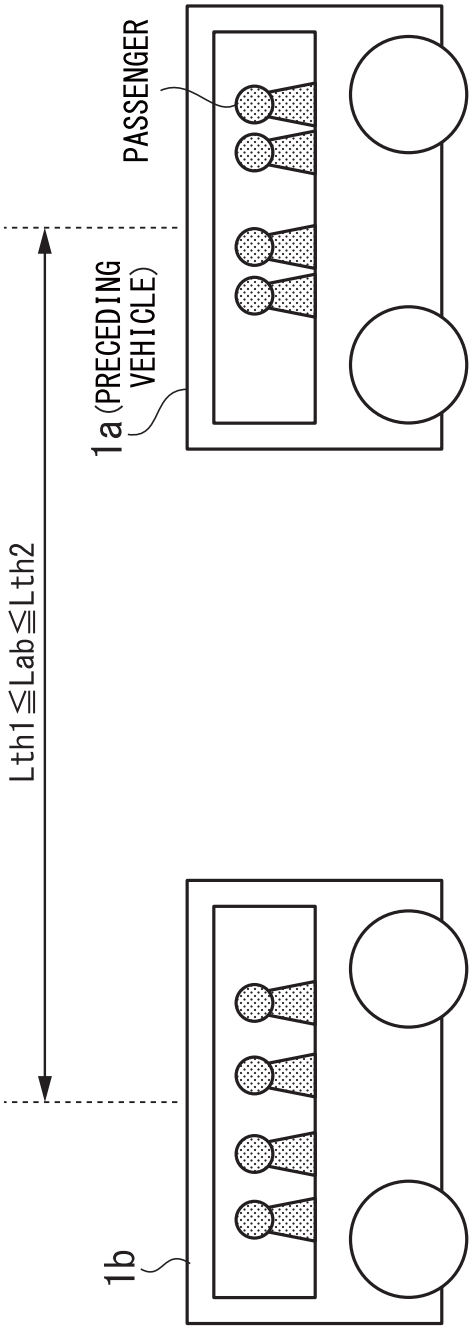


FIG. 14B

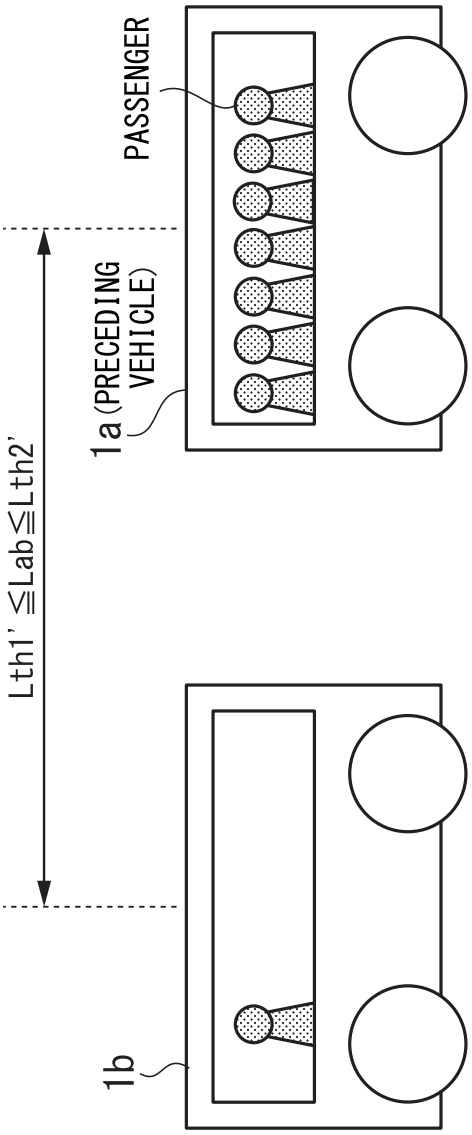


FIG. 15

FLOW OF PROCESS PERFORMED BY DRIVING MANAGEMENT APPARATUS 600

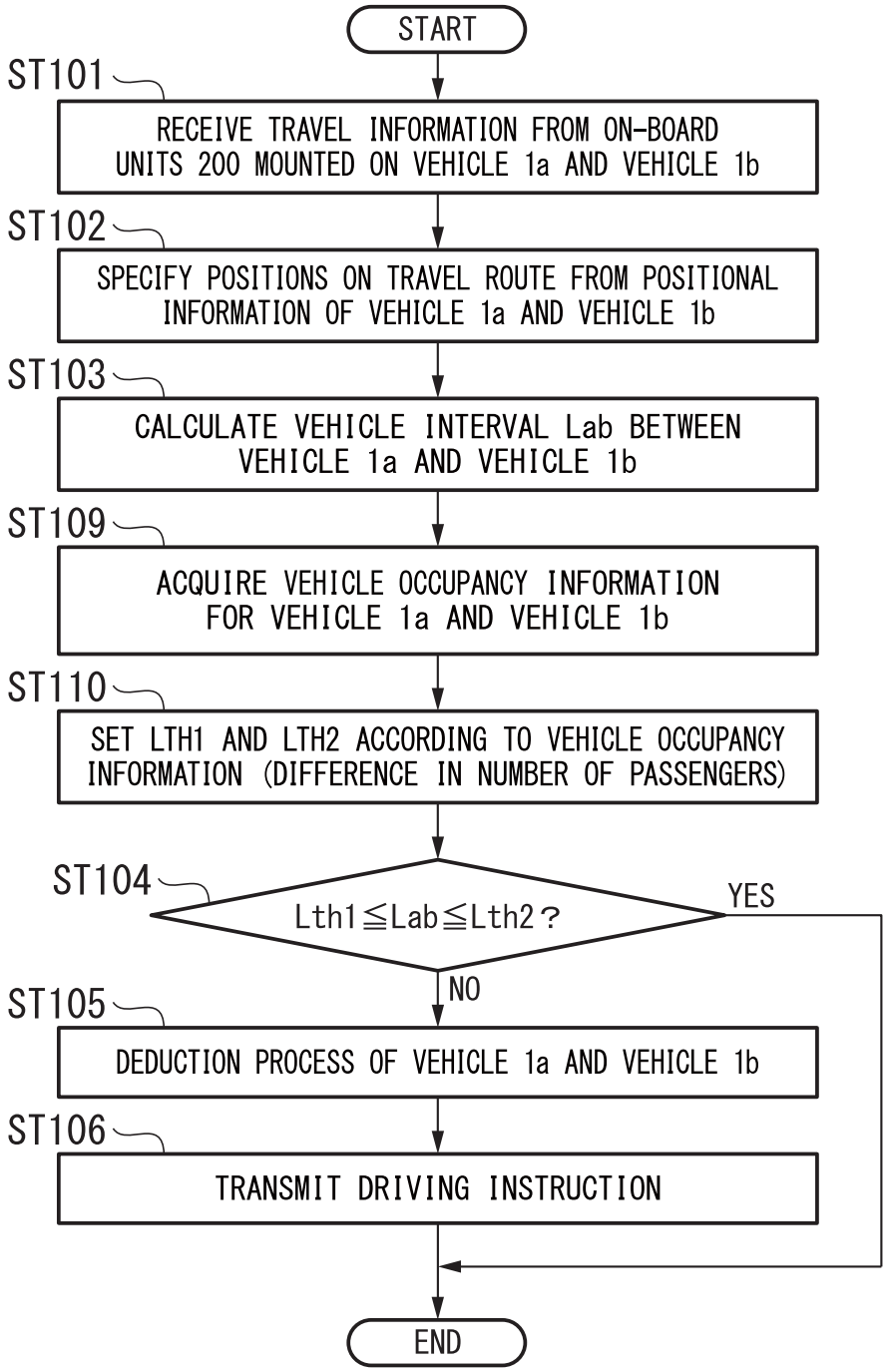


FIG. 16

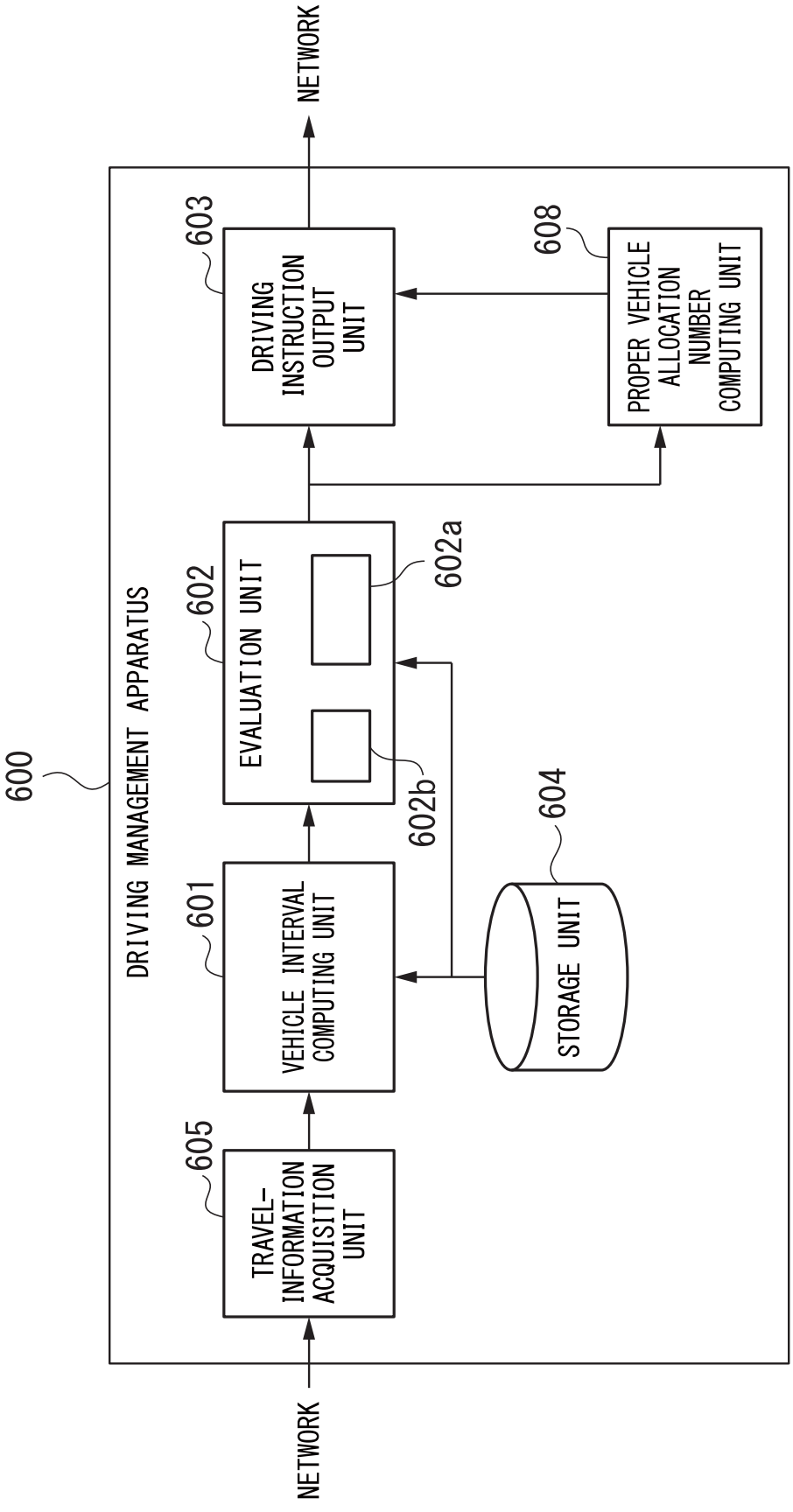

NETWORK
600
DRIVING MANAGEMENT APPARATUS
603
DRIVING INSTRUCTION OUTPUT UNIT
608
PROPER VEHICLE ALLOCATION NUMBER COMPUTING UNIT
602
EVALUATION UNIT
602a
602b
601
VEHICLE INTERVAL COMPUTING UNIT
604
STORAGE UNIT
605
TRAVEL-INFORMATION ACQUISITION UNIT
NETWORK

FIG. 17

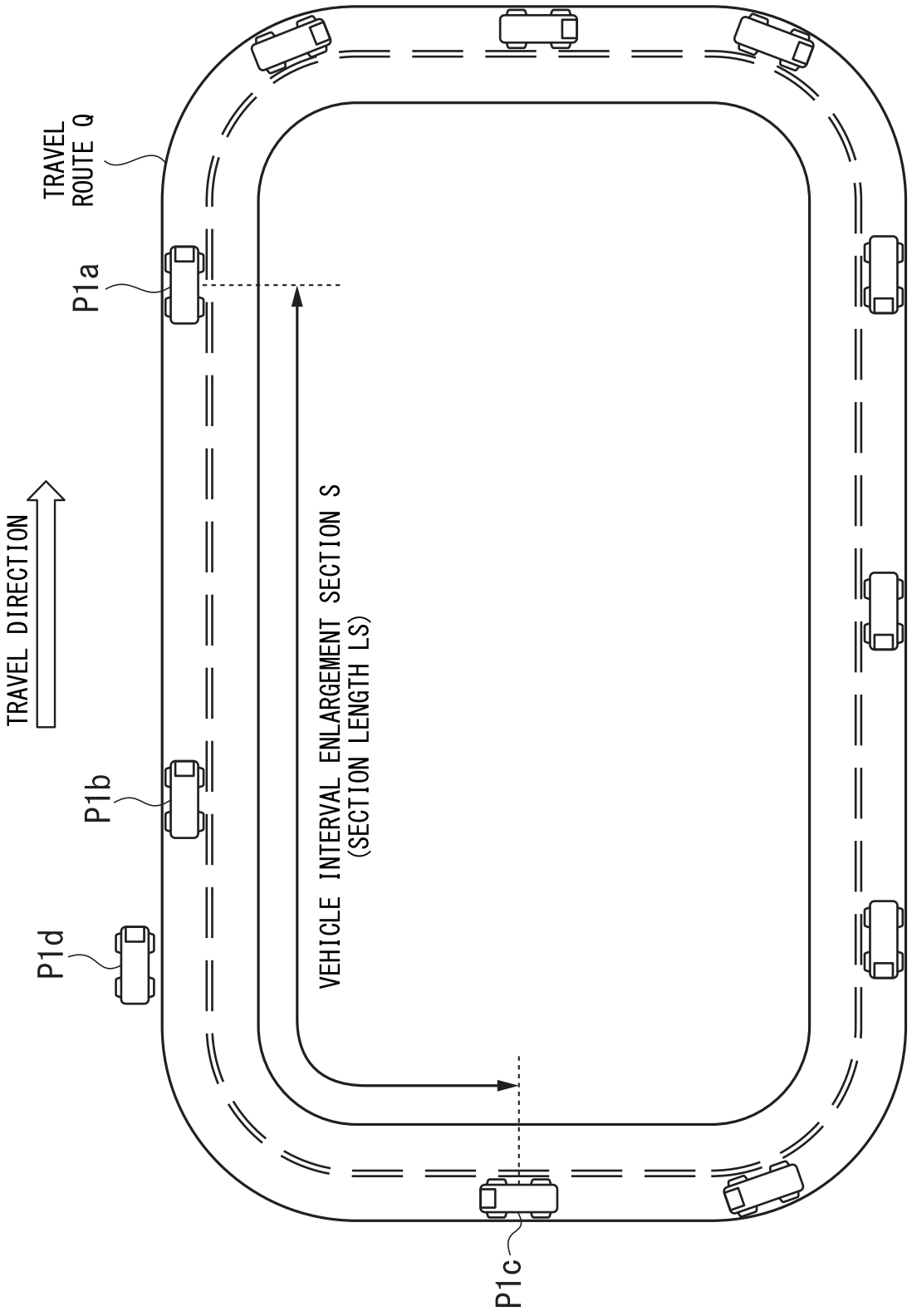
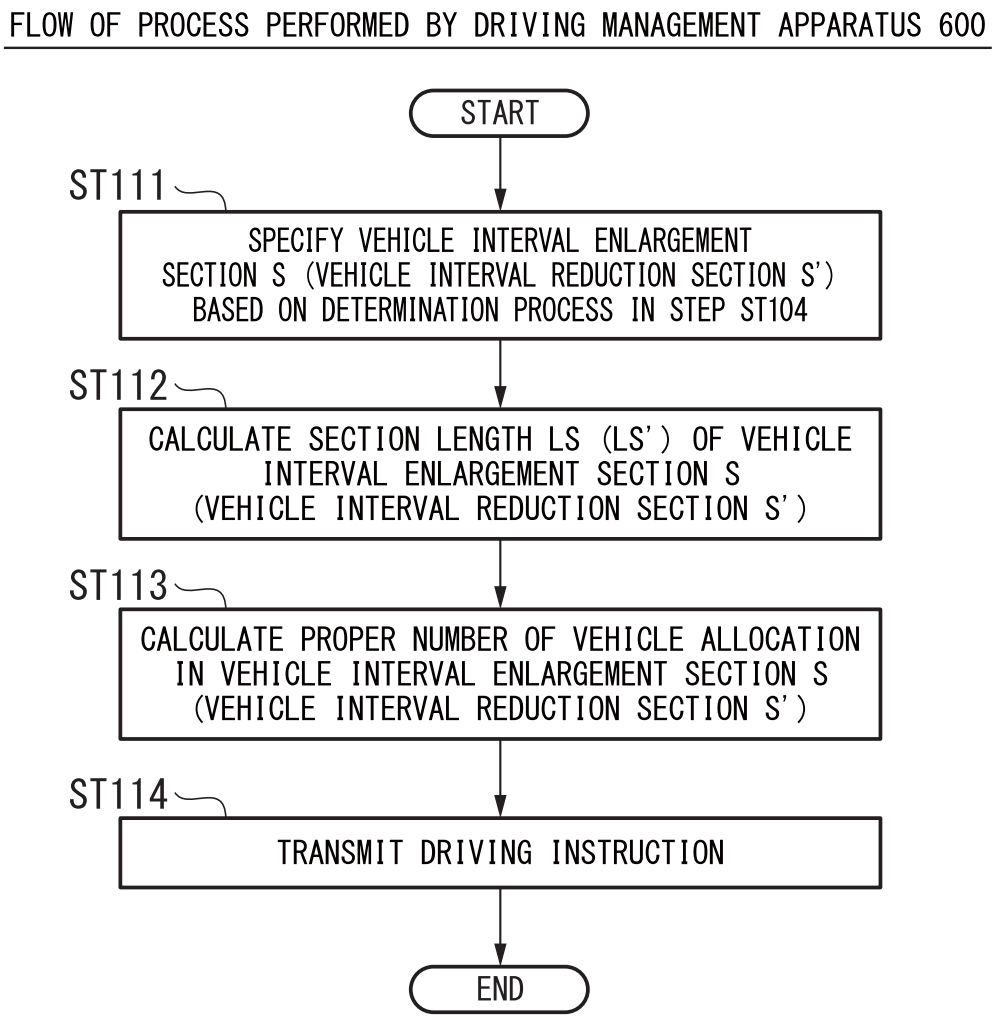

TRAVEL ROUTE Q
P1a
P1b
P1c
P1d
TRAVEL DIRECTION
VEHICLE INTERVAL ENLARGEMENT SECTION S
(SECTION LENGTH LS)

FIG. 18


FLOW OF PROCESS PERFORMED BY DRIVING MANAGEMENT APPARATUS 600
START
ST111
SPECIFY VEHICLE INTERVAL ENLARGEMENT SECTION S (VEHICLE INTERVAL REDUCTION SECTION S') BASED ON DETERMINATION PROCESS IN STEP ST104
ST112
CALCULATE SECTION LENGTH LS (LS') OF VEHICLE INTERVAL ENLARGEMENT SECTION S (VEHICLE INTERVAL REDUCTION SECTION S')
ST113
CALCULATE PROPER NUMBER OF VEHICLE ALLOCATION IN VEHICLE INTERVAL ENLARGEMENT SECTION S (VEHICLE INTERVAL REDUCTION SECTION S')
ST114
TRANSMIT DRIVING INSTRUCTION
END