

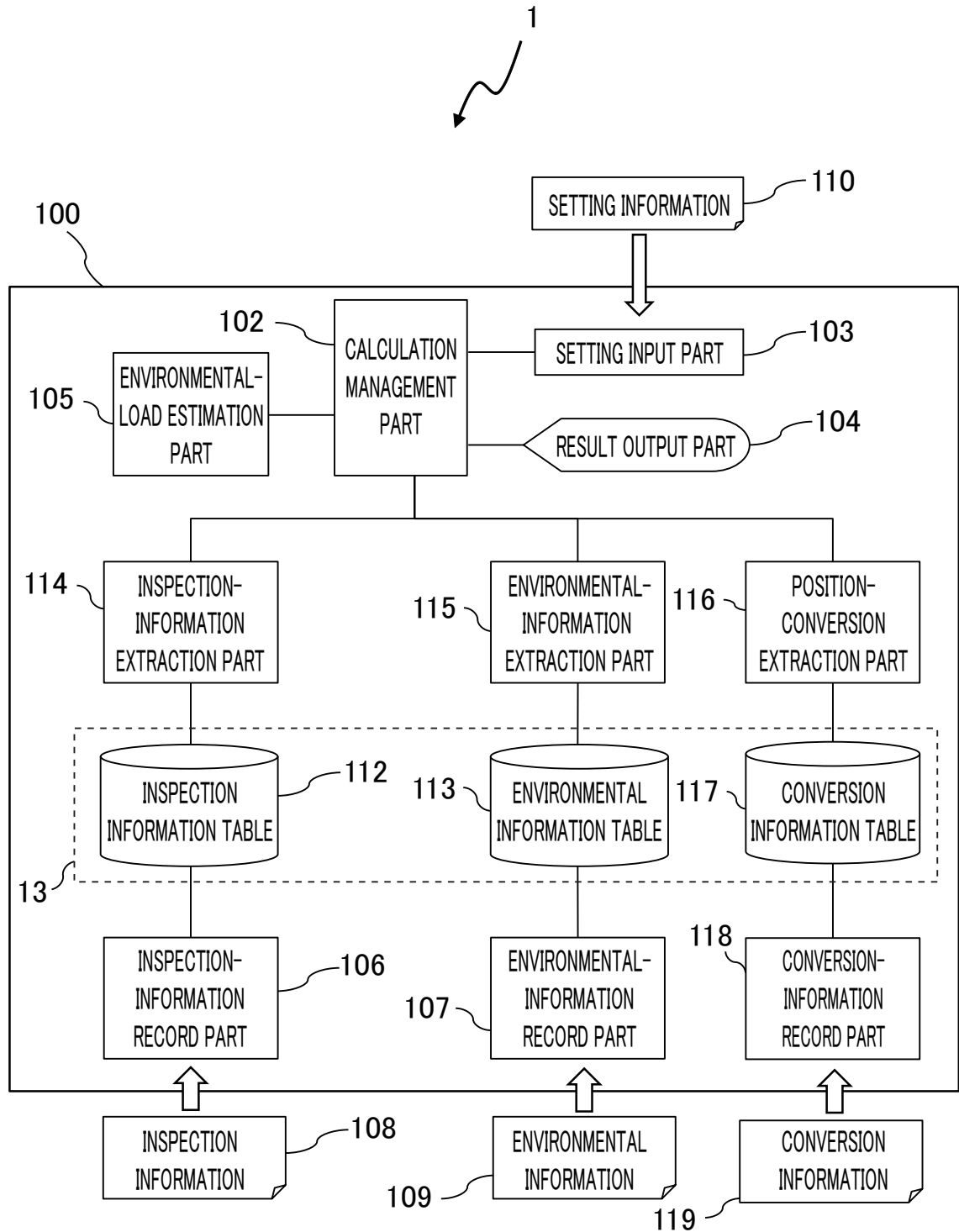


FIG. 1

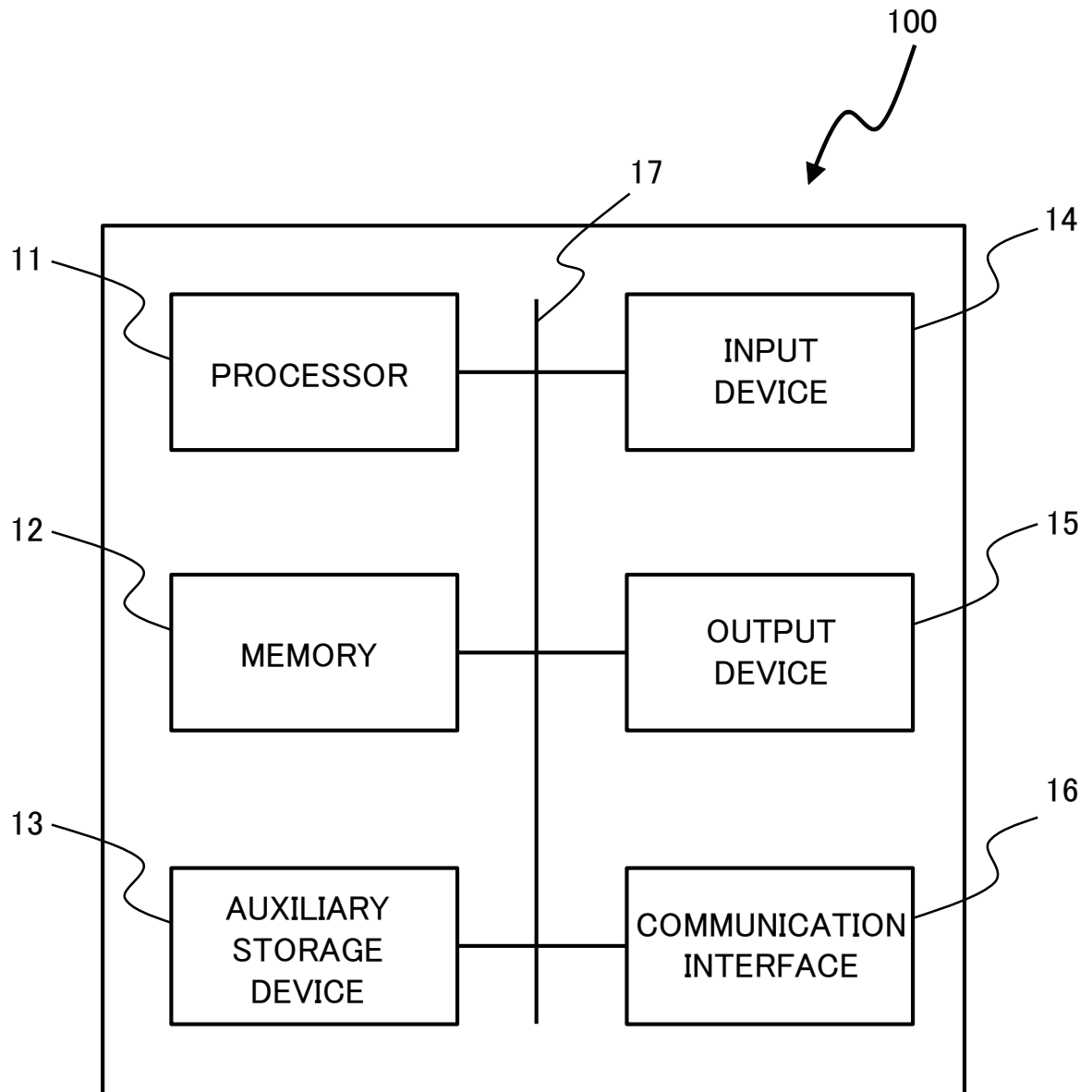


FIG. 2

EXAMPLE OF CONFIGURATION OF INSPECTION INFORMATION TABLE 112

EQUIPMENT ID	TYPE ID	LINE SECTION ID	KILOMETRAGE	INSPECTION DATE	INSPECTION VALUE
F01	CROSSING BARRIER	L01	1.2	2010/1/1	1.5
F01	CROSSING BARRIER	L01	1.2	2010/1/5	1.6
F02	TRACK	L01	1.9	2010/2/9	1.9
:				:	:

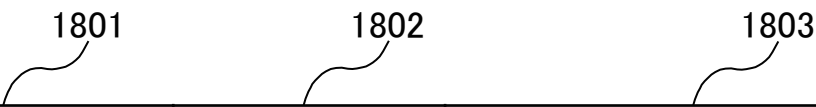
FIG. 3

EXAMPLE OF CONFIGURATION OF ENVIRONMENTAL INFORMATION TABLE 113

301	302	303	304	305	306	307	308	309
GEOGRAPHICAL POINT ID	GEOGRAPHICAL POINT	ALTITUDE	DATE	WEATHER	HIGHEST TEMPERATURE	LOWEST TEMPERATURE	AMOUNT OF RAINFALL /SNOWFALL	AMOUNT OF SOLAR RADIATION
L01	EAST LONGITUDE 135.2 NORTH LATITUDE 36.7	100m	2012/5/3	FINE	19.1	10.5	0	2.0
L01	EAST LONGITUDE 135.2 NORTH LATITUDE 36.7	105m	2012/5/4	RAIN	23.6	16.5	RAIN 120mm	0.0
L02	EAST LONGITUDE 135.0 NORTH LATITUDE 35.8	95m	2012/5/4	RAIN	22.4	17.3	RAIN 115mm	0.0
:	:				:			

FIG. 4

EXAMPLE OF CONFIGURATION OF
CONVERSION INFORMATION TABLE 117



LINE SECTION ID	KILOMETRAGE	POSITION
L01	1.0	EAST LONGITUDE 139.992 NORTH LATITUDE 35.563
L01	1.2	EAST LONGITUDE 139.992 NORTH LATITUDE 35.564
L01	1.3	EAST LONGITUDE 139.992 NORTH LATITUDE 35.565
L01	1.5	EAST LONGITUDE 139.991 NORTH LATITUDE 35.565
L01	1.6	EAST LONGITUDE 139.991 NORTH LATITUDE 35.565
L01	1.9	EAST LONGITUDE 139.991 NORTH LATITUDE 35.564
L01	2.2	EAST LONGITUDE 139.990 NORTH LATITUDE 35.565
L01	2.3	EAST LONGITUDE 139.990 NORTH LATITUDE 35.565
L01	2.6	EAST LONGITUDE 139.988 NORTH LATITUDE 35.564
:	:	:

FIG. 5

EXAMPLE OF CONFIGURATION OF
SETTING INFORMATION DATA 110

401 PREDICTION PERIOD	402 TARGET EQUIPMENT ID	403 TIME INTERVAL
2012/1/1 ~ 2020/12/31	F01,F02,F05	1hr

FIG. 6

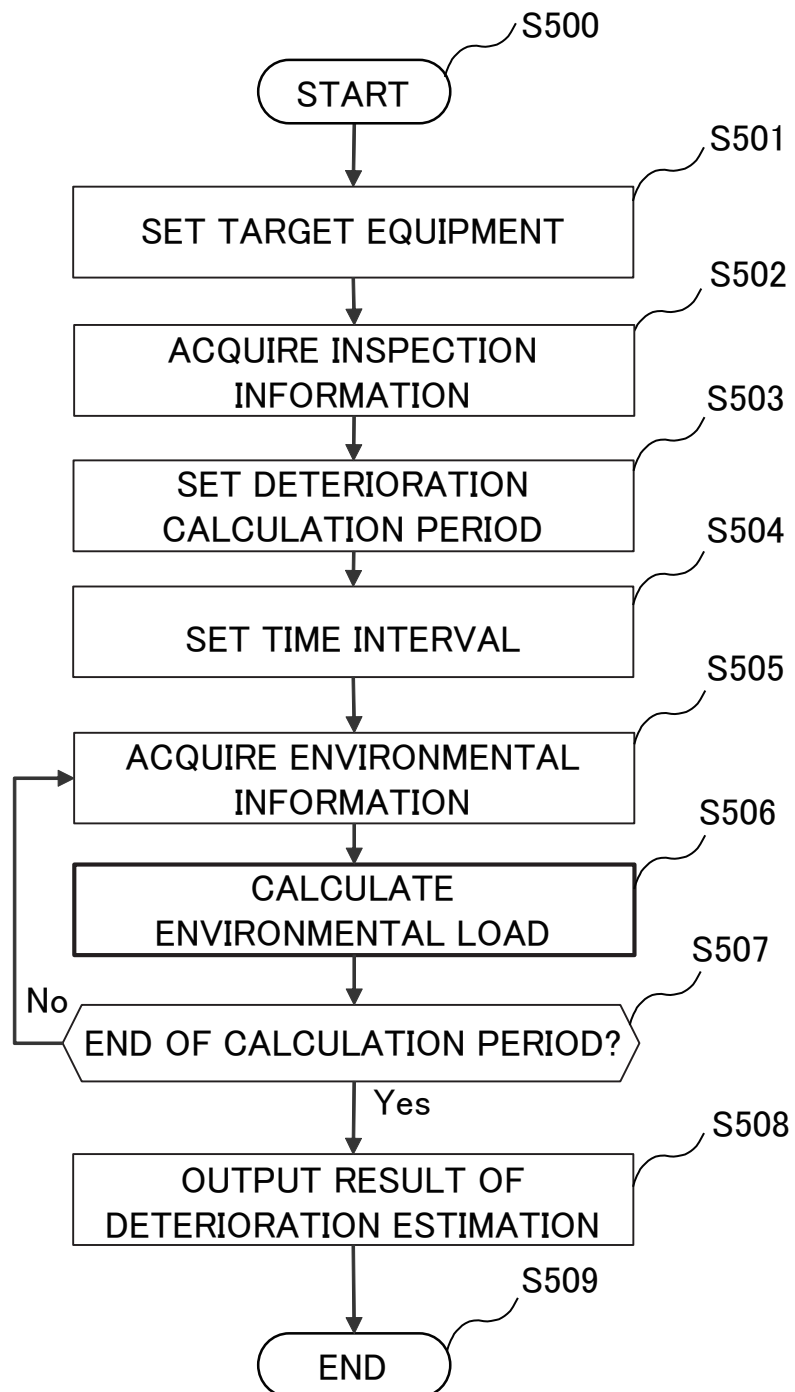
EXAMPLE OF PROCESS FLOW
IN FIRST EMBODIMENT

FIG. 7

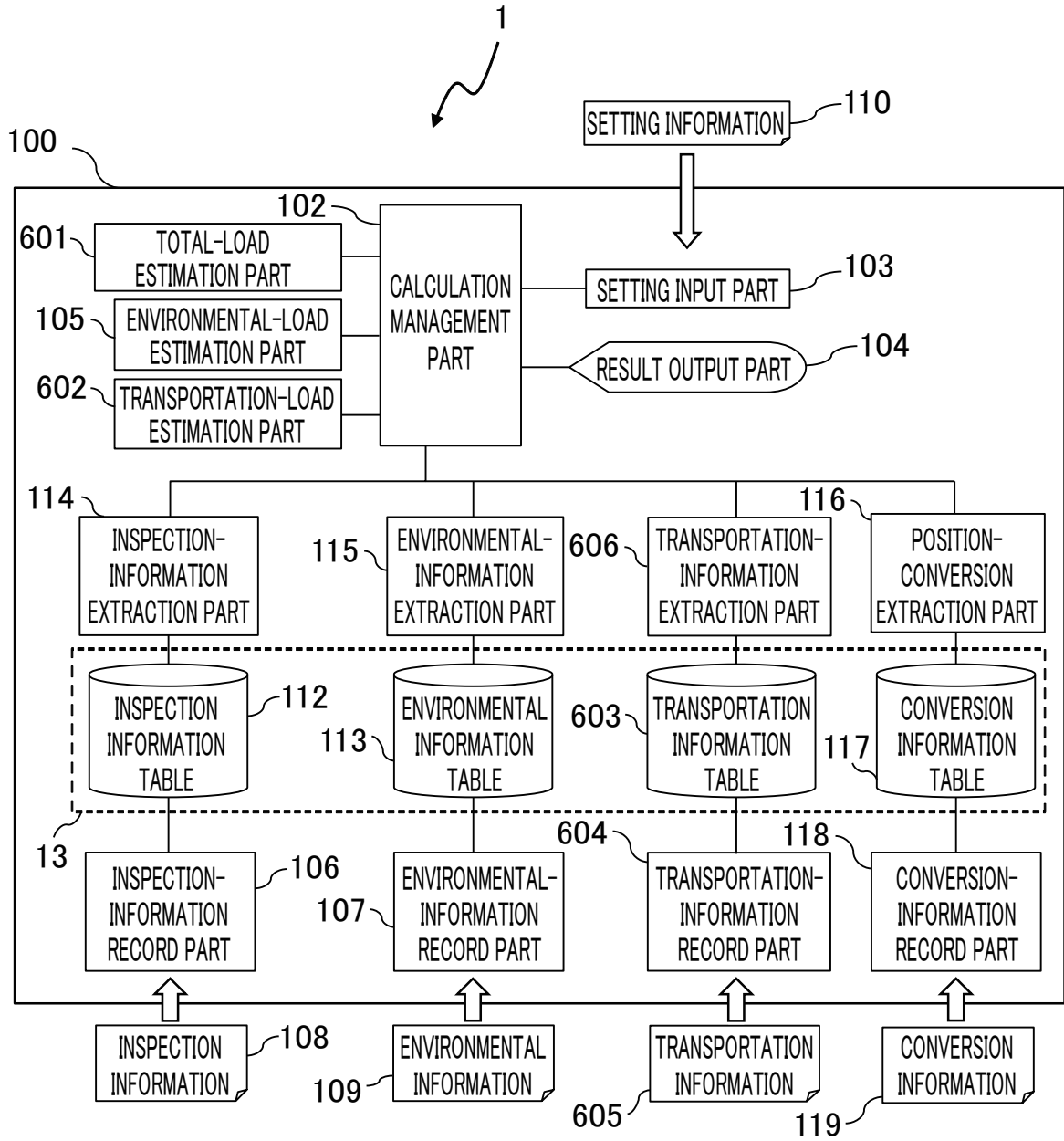


FIG. 8

EXAMPLE OF CONFIGURATION OF TRANSPORTATION INFORMATION TABLE 603

801	802	803	804	805	806	807	808	809
TRAIN ID	LINE SECTION ID	INTER- STATION AREA ID	DATE	TIME	KILOMETRAGE	SPEED	ACCELERATION/ DECELERATION RATE	AMOUNT OF TRANSPORTATION
T001	L01	B02	2011/10/5	16:00:00	10.5	40.5	+0.2	126
T001	L01	B02	2011/10/5	16:01:00	10.7	50.1	+0.1	154
T001	L02	B03	2011/10/5	16:10:15	14.3	30.2	-0.1	123
:	:				:			

FIG. 9

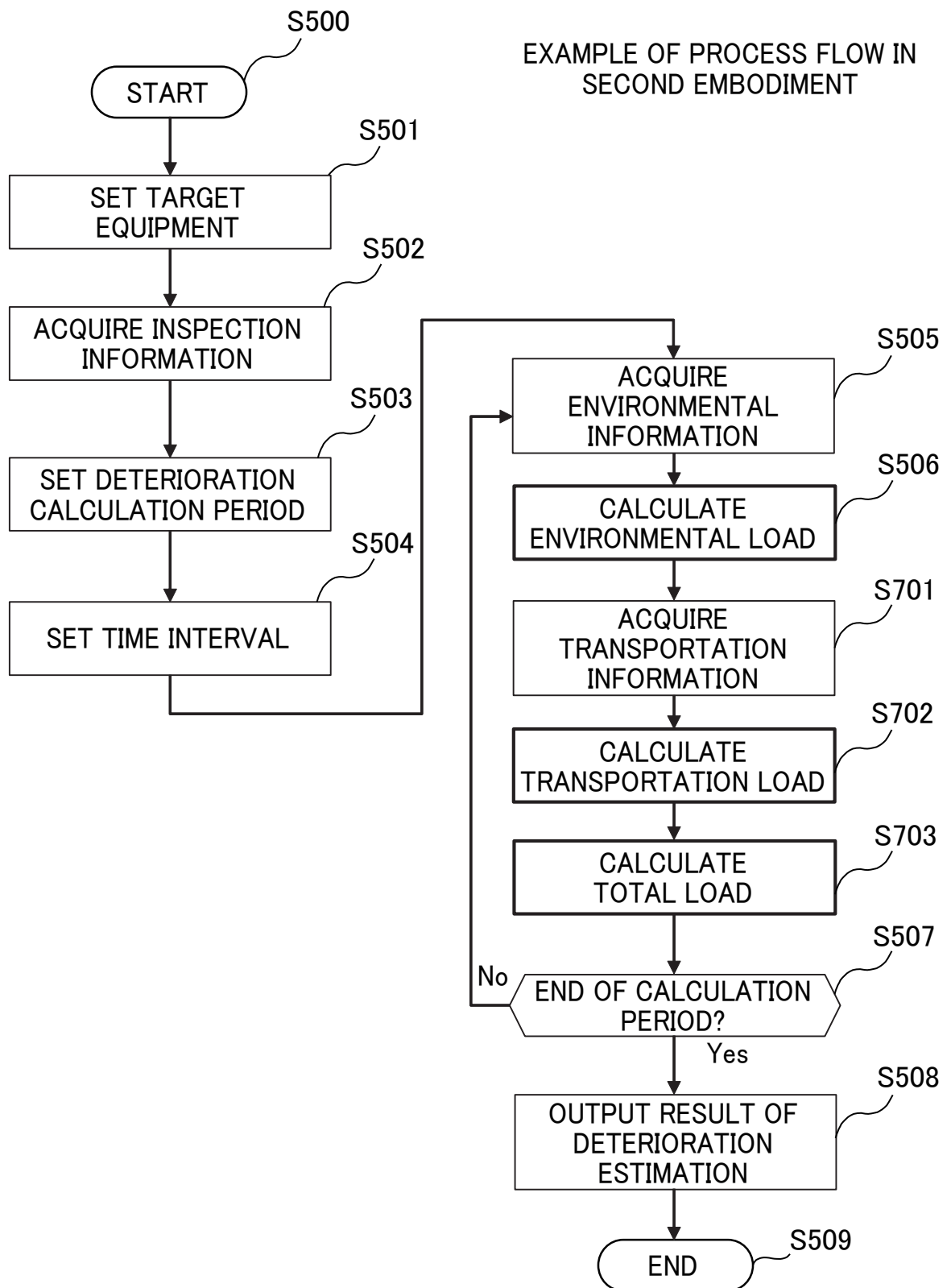
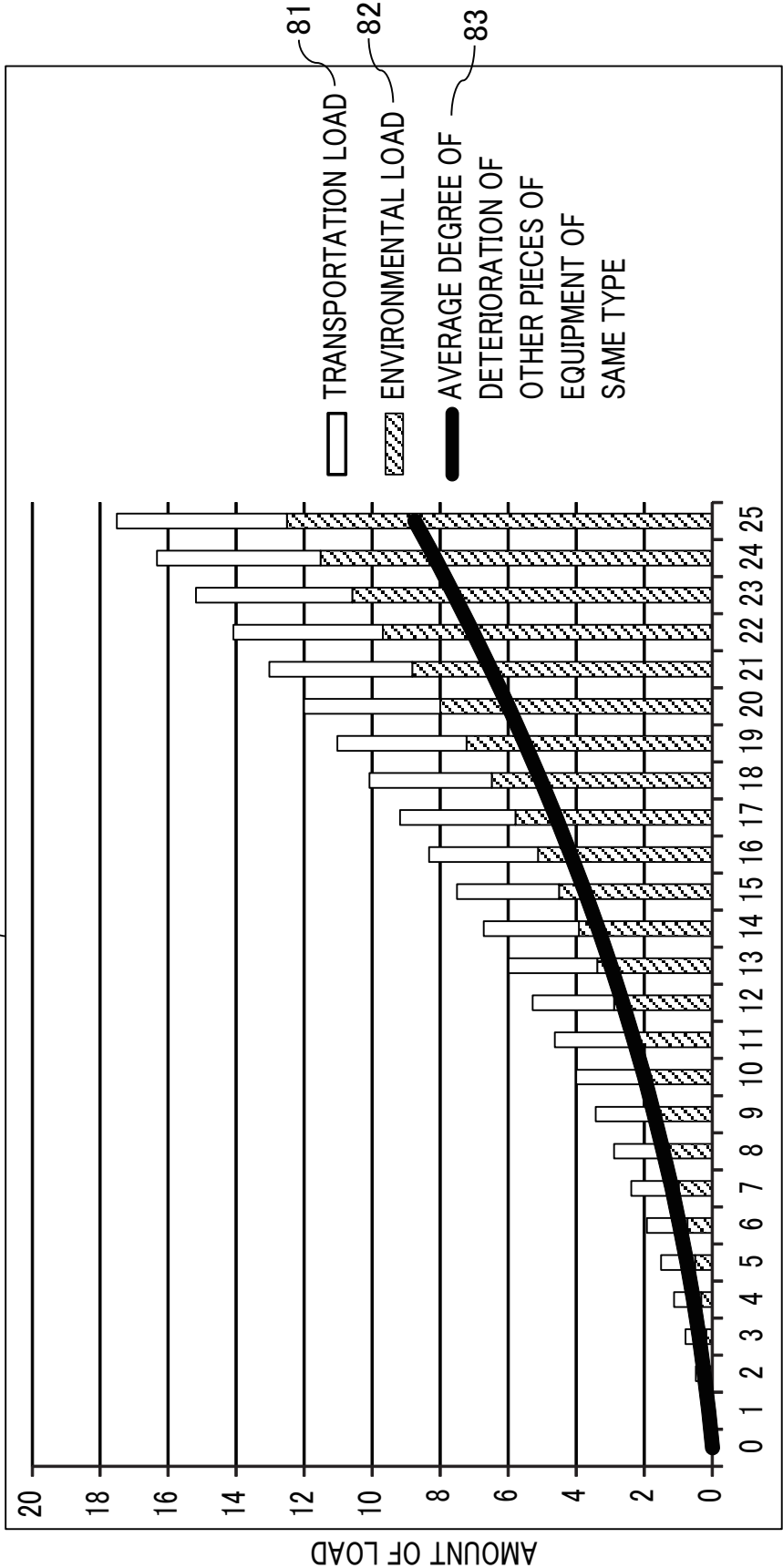


FIG. 10

EXAMPLE OF OUTPUT OF RESULT OUTPUT PART 104

80



TIME (PREDICTION CALCULATION PERIOD)

FIG. 11

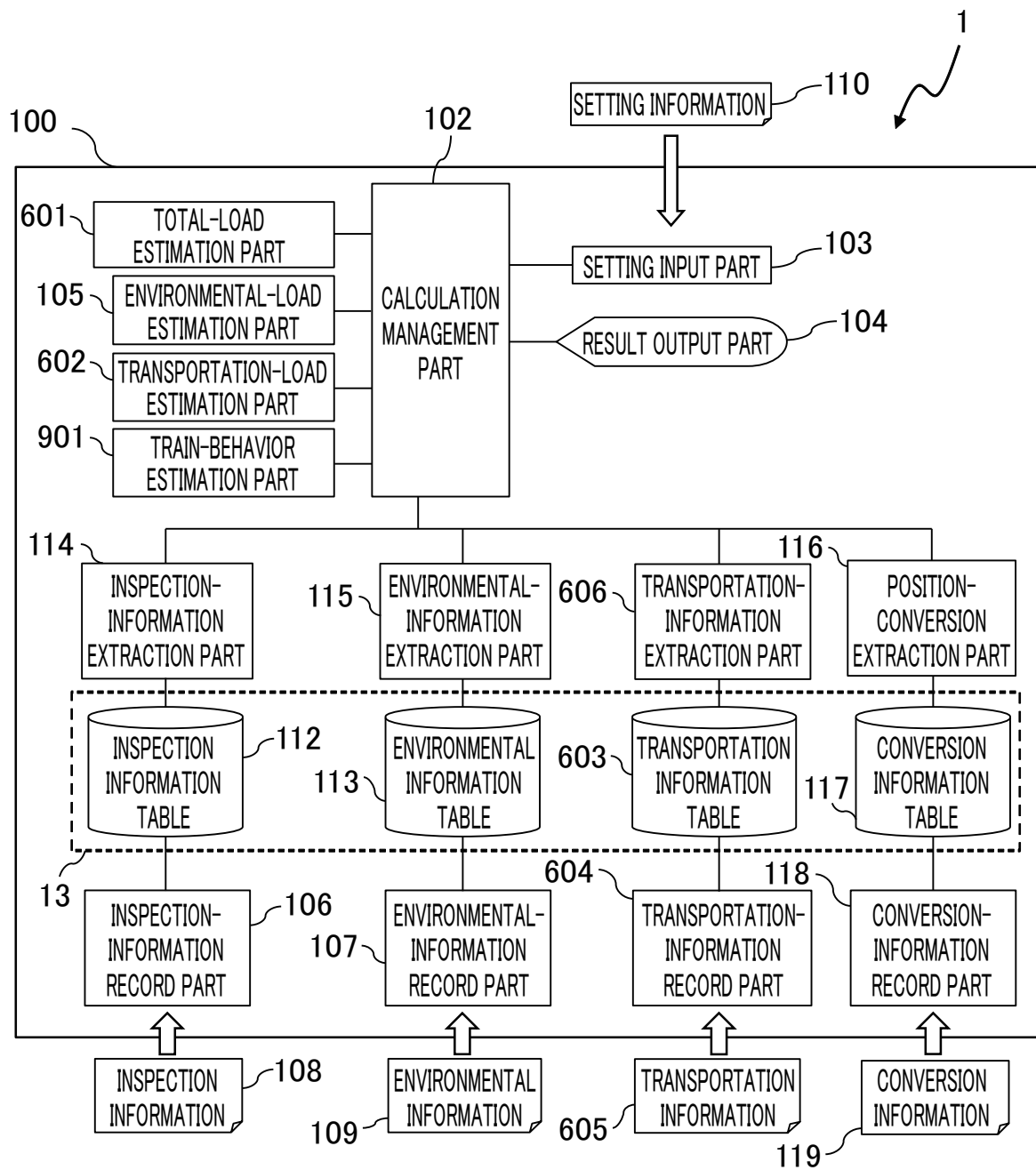


FIG. 12

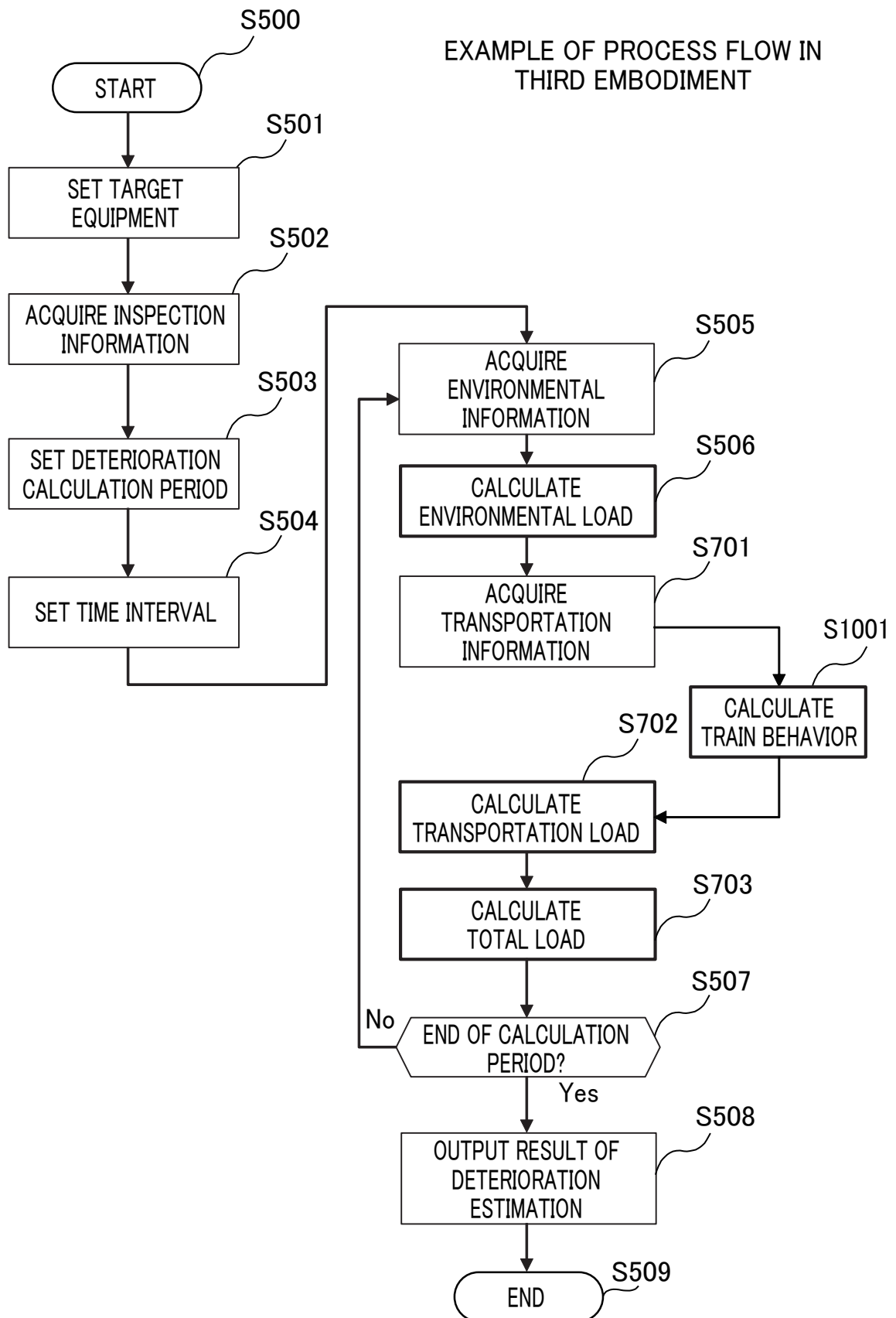
EXAMPLE OF PROCESS FLOW IN
THIRD EMBODIMENT

FIG. 13

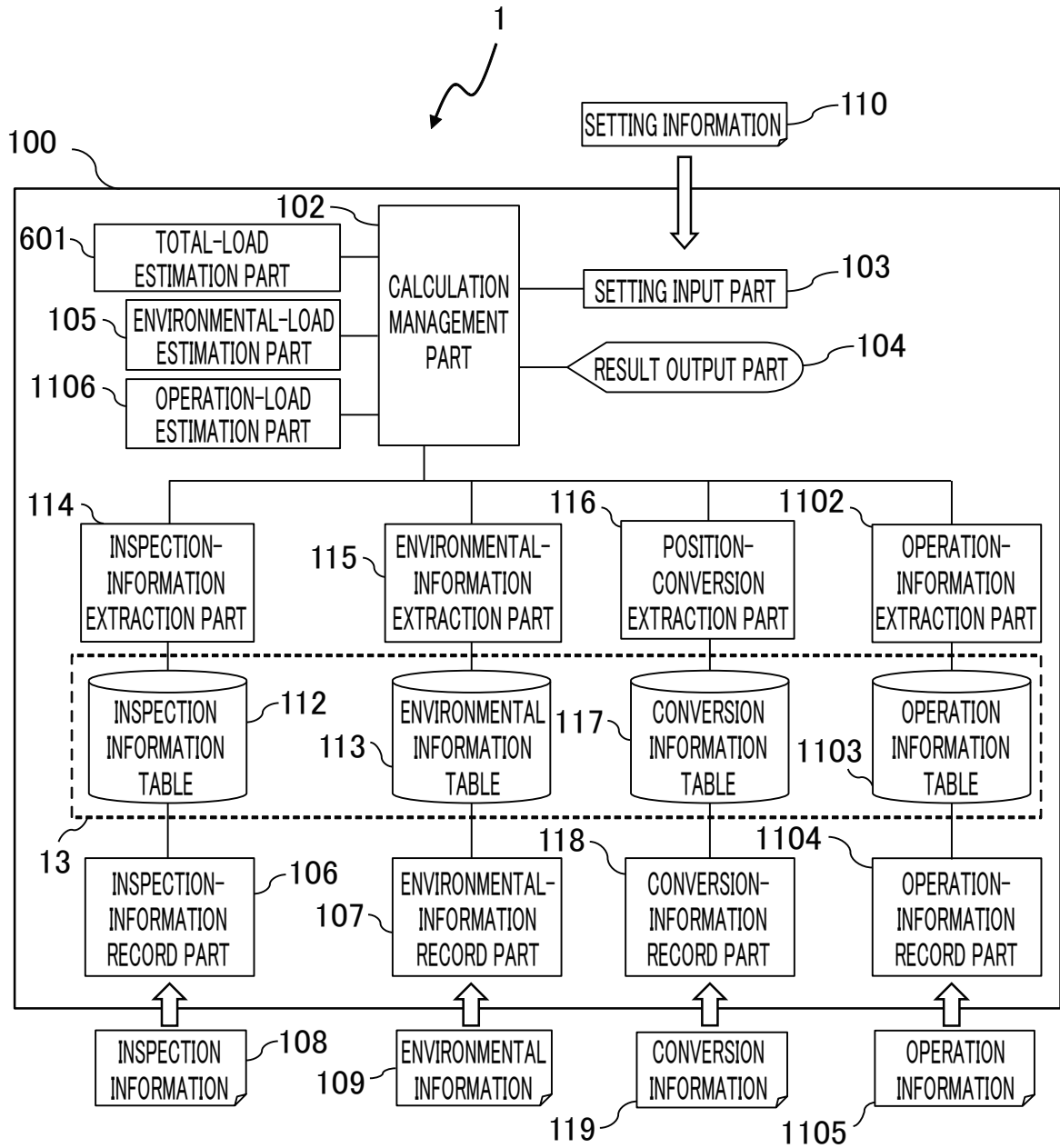


FIG. 14

EXAMPLE OF CONFIGURATION OF
OPERATION INFORMATION TABLE 1103

1601 LINE SECTION ID	1602 KILOMETRAGE (AREA)	1603 DATE	1604 TIME	1605 CONTENT OF OPERATION
L01	10.5 ~ 10.8	2011/12/5	16:00:00	SPRAYING ANTI- FREEZE AGENT 200g/m ²
L01	12.3 ~ 15.5	2011/12/5	16:01:00	SPRAYING ANTI- FREEZE AGENT 200g/m ²
L01	14.3 ~ 19.2	2011/12/5	16:10:15	SPRAYING ANTI- FREEZE AGENT 100g/m ²
:	:	:	:	:

FIG. 15

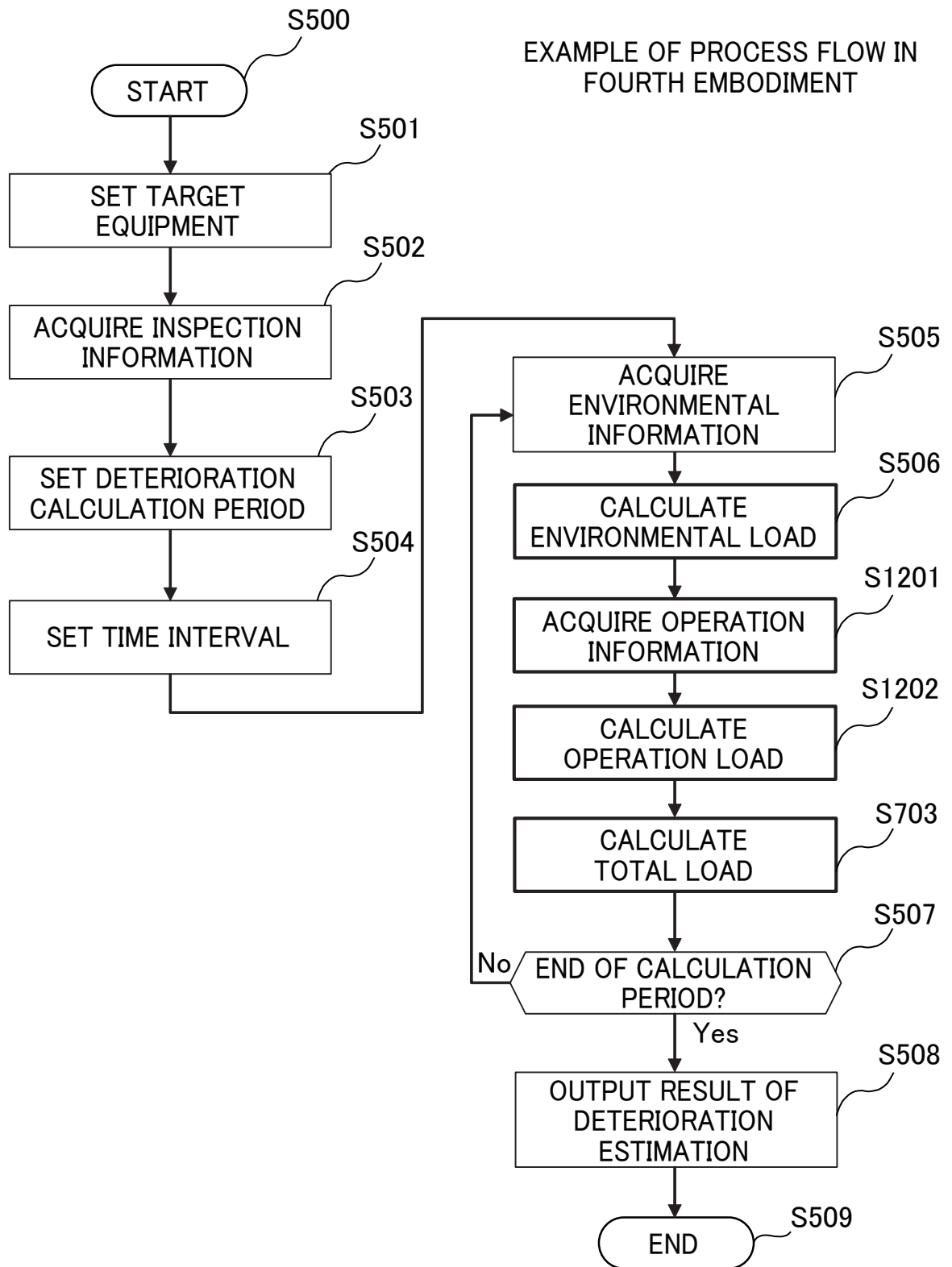


FIG. 16

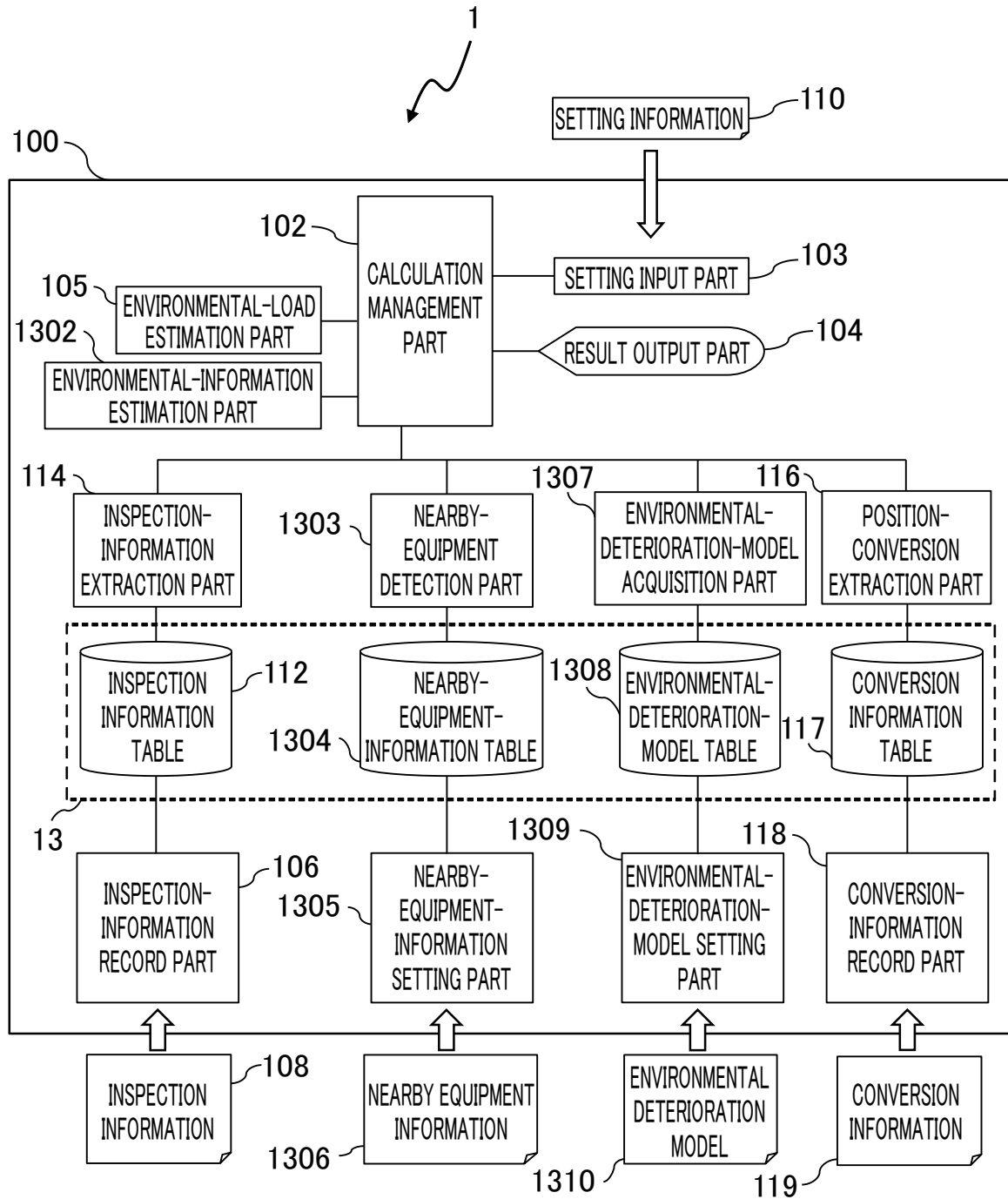


FIG. 17

EXAMPLE OF CONFIGURATION OF
NEARBY-EQUIPMENT-INFORMATION TABLE 1304

EQUIPMENT ID	LINE SECTION ID	INSTALLATION KILOMETRAGE	TYPE ID
F01	L01	6.5	SIGNAL
F02	L01	6.5	CROSSING BARRIER
F03	L01	11.2 ~ 11.3	TRACK
F04	L01	11.2 ~ 11.5	MESSENGER WIRE
F05	L02	15.5	SIGNAL
:	:	:	:

FIG. 18

EXAMPLE OF CONFIGURATION OF
ENVIRONMENTAL-DETERIORATION-MODEL TABLE 1308

1901 MODEL ID	1902 TYPE ID	1903 EXPLANATORY VARIABLE	1904 FUNCTION FORM
M01	OVERHEAD WIRE	WIND SPEED, TEMPERATURE DIFFERENCE	DETERIORATION = Σ WIND SPEED $\times$ TEMPERATURE DIFFERENCE
M02	TRACK	TEMPERATURE DIFFERENCE	DETERIORATION = Σ TEMPERATURE DIFFERENCE
M03	CROSSING BARRIER		
M04			
M05			
:		:	:

FIG. 19

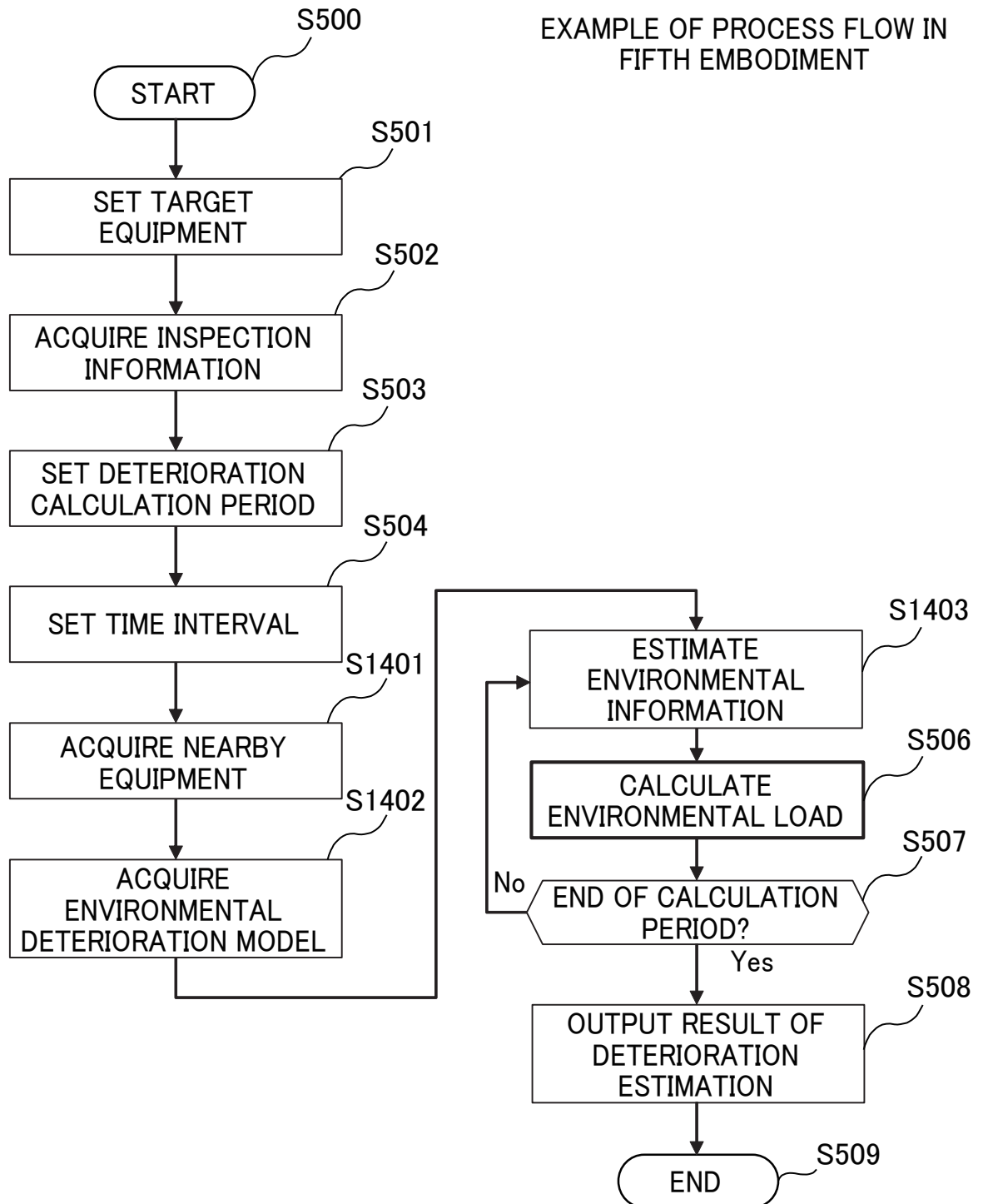


FIG. 20