

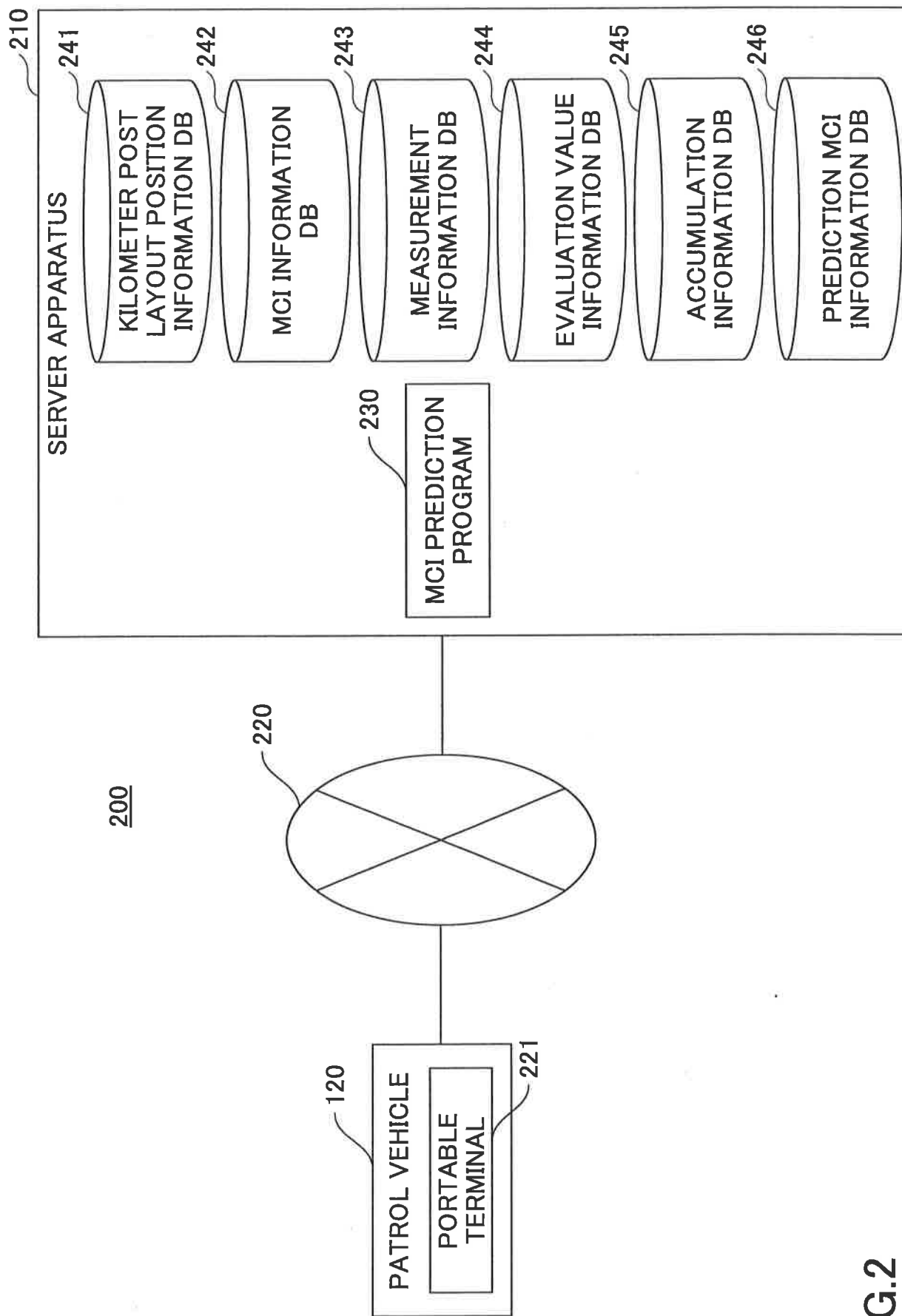


FIG.2

FIG.3

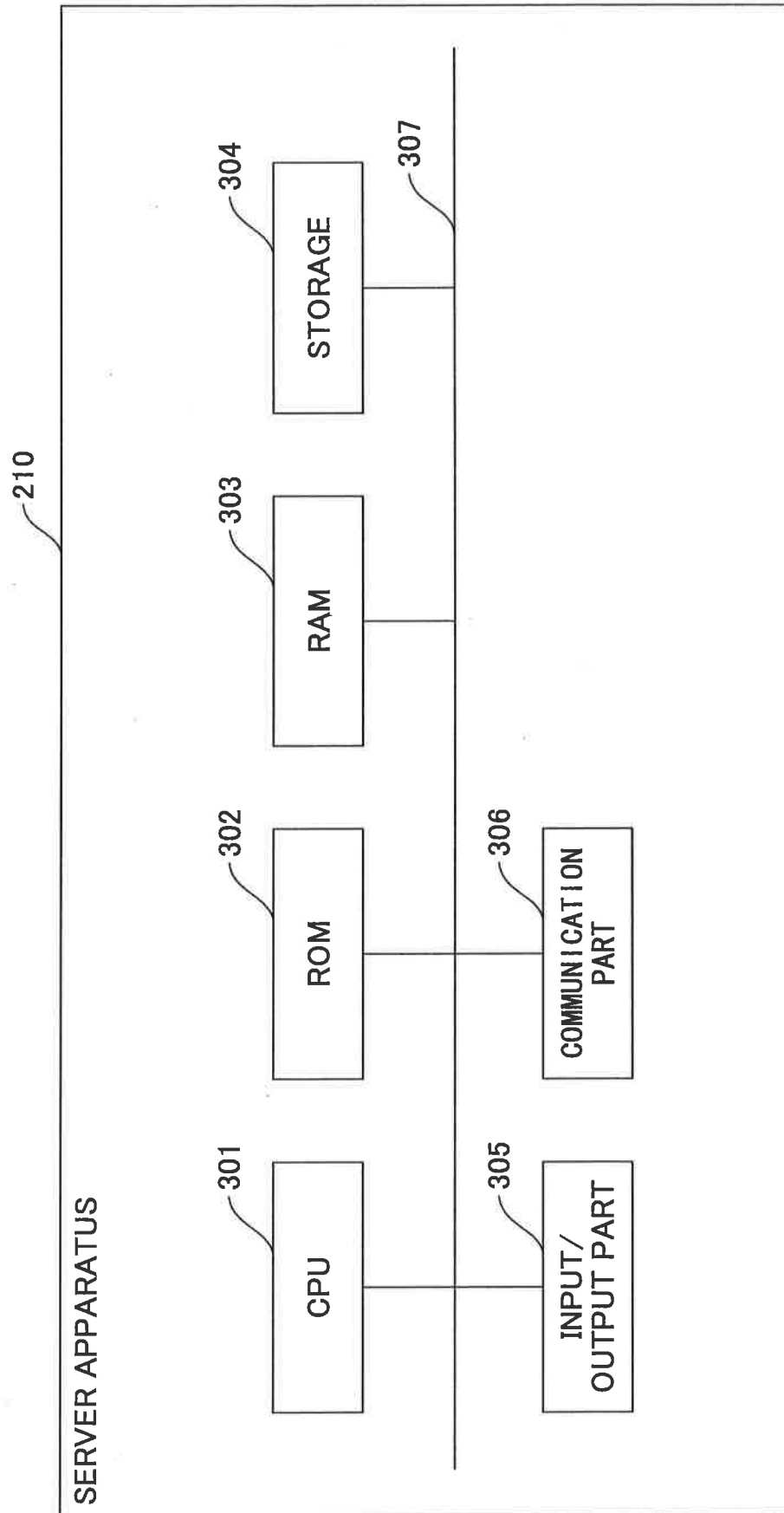


FIG.4

400

KILOMETER POST LAYOUT POSITION INFORMATION (VEHICLE ROAD A)		
KILOMETER POST SECTION NAME	START POINT	END POINT
0.1	(a_0, b_0)	(a_1, b_1)
0.2	(a_1, b_1)	(a_2, b_2)
0.3	(a_2, b_2)	(a_3, b_3)
0.4	(a_3, b_3)	(a_4, b_4)
0.5	(a_4, b_4)	(a_5, b_5)
0.6	(a_5, b_5)	(a_6, b_6)
0.7	(a_6, b_6)	(a_7, b_7)
0.8	(a_7, b_7)	(a_8, b_8)
0.9	(a_8, b_8)	(a_9, b_9)
1.0	(a_9, b_9)	(a_{10}, b_{10})
1.1	(a_{10}, b_{10})	(a_{11}, b_{11})

10.0	(a_{99}, b_{99})	(a_{100}, b_{100})
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FIG.5

500

MCI INFORMATION		
VEHICLE ROAD NAME	KILOMETER POST SECTION NAME	MCI VALUE
VEHICLE ROAD A	0.1	8
VEHICLE ROAD A	0.2	9
VEHICLE ROAD A	0.3	9
VEHICLE ROAD A	0.4	7
VEHICLE ROAD A	0.5	7
VEHICLE ROAD A	0.6	9
VEHICLE ROAD A	0.7	6
VEHICLE ROAD A	0.8	5
VEHICLE ROAD A	0.9	5
VEHICLE ROAD A	1.0	7
VEHICLE ROAD A	1.1	8

VEHICLE ROAD A	10.0	7
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FIG.6

600

DATE	TIME	LATITUDE	LONGITUDE	UP-DOWN DIRECTION ACCELERATION
8/22/2013	13:41:02:302	35.36220932	137.2550964	9.787922
8/22/2013	13:41:02:802	35.36220932	137.2550964	9.661452
8/22/2013	13:41:03:302	35.36217880	137.2551575	9.359603
8/22/2013	13:41:03:802	35.36217880	137.2551575	9.083329
8/22/2013	13:41:04:302	35.36215591	137.2552185	8.915027
8/22/2013	13:41:04:802	35.36215591	137.2552185	8.835514
8/22/2013	13:41:05:302	35.36213684	137.2552643	8.848577

FIG.7

700

EVALUATION VALUE INFORMATION		
ROAD SURFACE CONDITION	EVALUATION VALUE IN CASE OF BEING GREATER THAN OR EQUAL TO VTh1	EVALUATION VALUE IN CASE OF BEING GREATER THAN OR EQUAL TO VTh2
PREDICTION MCI VALUE=9	1	2
PREDICTION MCI VALUE=8	1	2
PREDICTION MCI VALUE=7	1	2
PREDICTION MCI VALUE=6	1	2
PREDICTION MCI VALUE=5	1.1	2.3
PREDICTION MCI VALUE=4	1.2	2.5
PREDICTION MCI VALUE=3	1.4	3
PREDICTION MCI VALUE=2	1.7	3.5
PREDICTION MCI VALUE=1		
POT HOLE DETECTED	1.2	1.2

FIG.8

800

ACCUMULATION INFORMATION		
VEHICLE ROAD NAME	KILOMETER POST SECTION NAME	ACCUMULATION VALUE
VEHICLE ROAD A	0.1	10
VEHICLE ROAD A	0.2	12
VEHICLE ROAD A	0.3	8
VEHICLE ROAD A	0.4	30
VEHICLE ROAD A	0.5	14
VEHICLE ROAD A	0.6	10
VEHICLE ROAD A	0.7	16
VEHICLE ROAD A	0.8	22
VEHICLE ROAD A	0.9	25
VEHICLE ROAD A	1.0	11
VEHICLE ROAD A	1.1	20

VEHICLE ROAD A	10.0	17
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FIG.9

900

PREDICTION MCI INFORMATION			
KILOMETER POST SECTION NAME	START POINT	END POINT	PREDICTION MCI VALUE
0.1	(a_0, b_0)	(a_1, b_1)	8
0.2	(a_1, b_1)	(a_2, b_2)	9
0.3	(a_2, b_2)	(a_3, b_3)	9
0.4	(a_3, b_3)	(a_4, b_4)	6
0.5	(a_4, b_4)	(a_5, b_5)	3
0.6	(a_5, b_5)	(a_6, b_6)	9
0.7	(a_6, b_6)	(a_7, b_7)	5
0.8	(a_7, b_7)	(a_8, b_8)	4
0.9	(a_8, b_8)	(a_9, b_9)	4
1.0	(a_9, b_9)	(a_{10}, b_{10})	7
1.1	(a_{10}, b_{10})	(a_{11}, b_{11})	7

10.0	(a_{99}, b_{99})	(a_{100}, b_{100})	6
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FIG.10

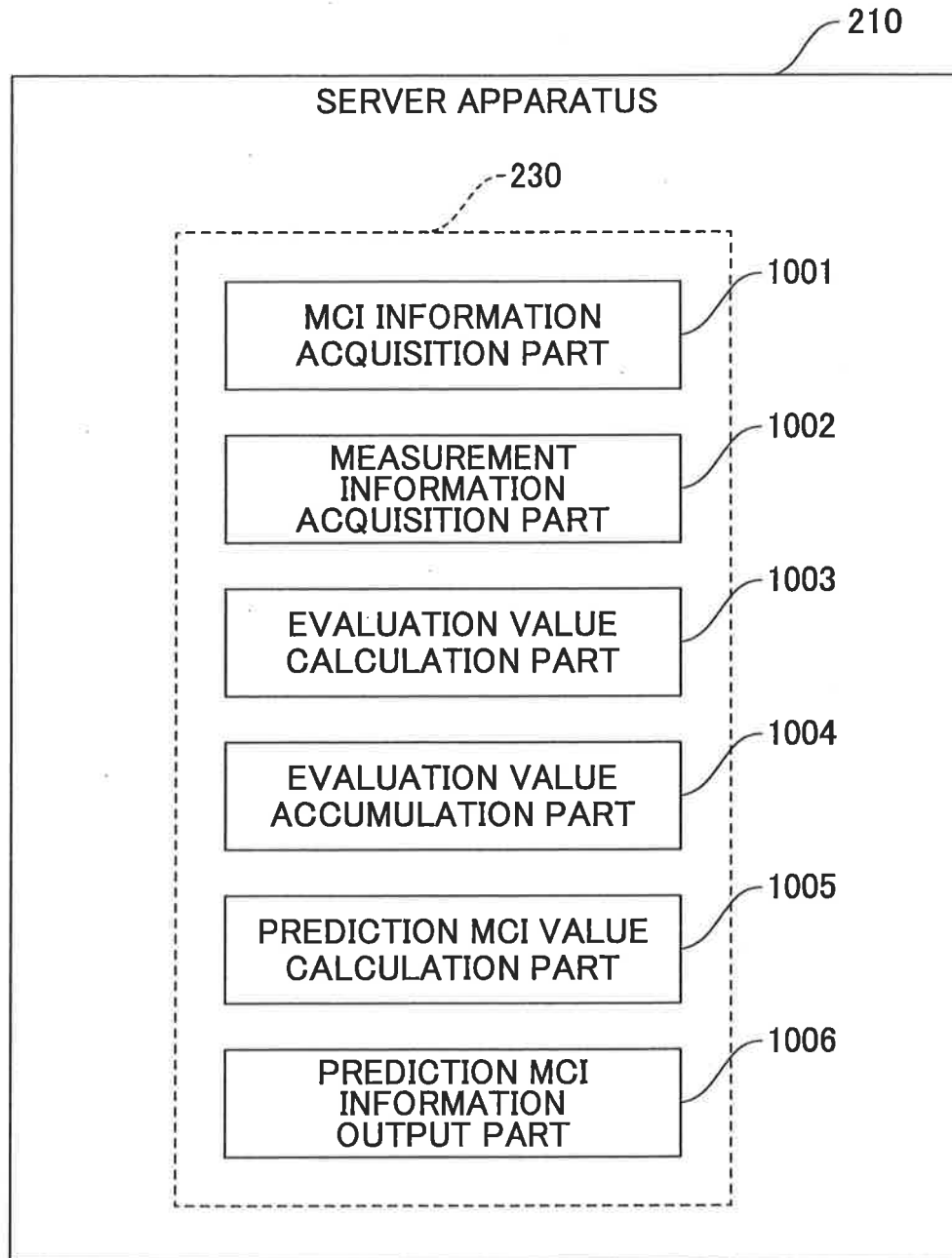


FIG.11

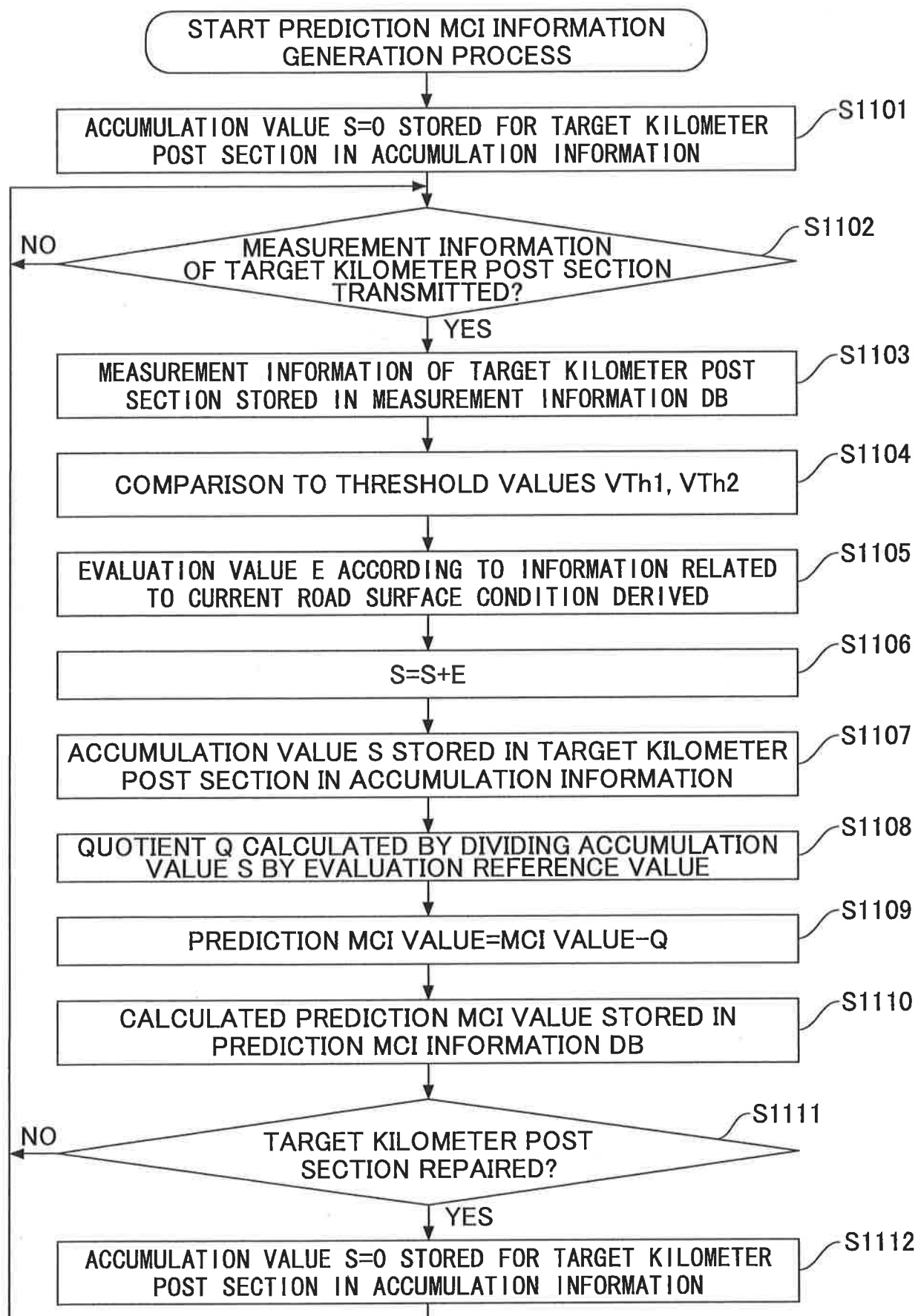


FIG.12

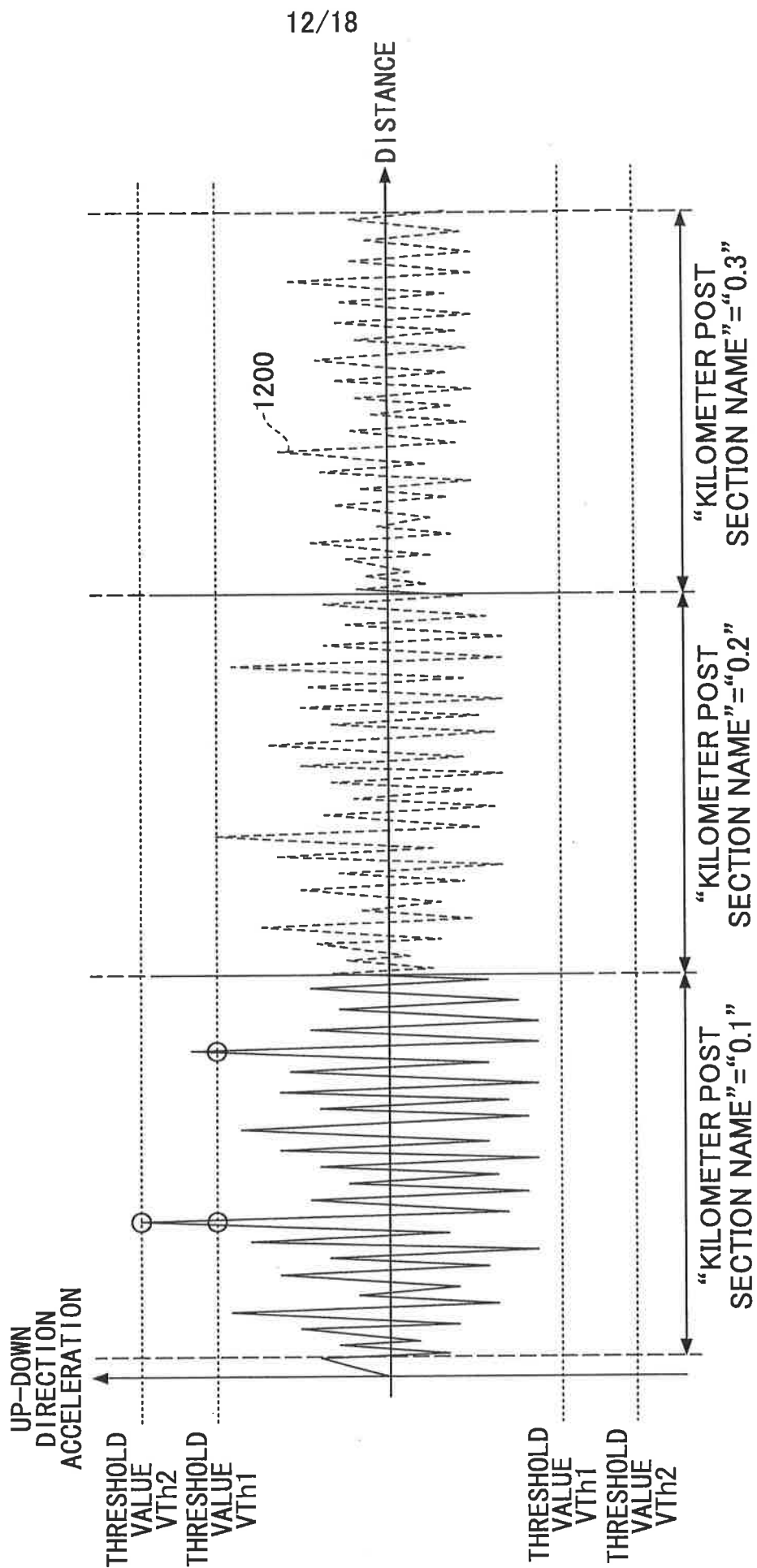


FIG.13

1300

DATE	KILOMETER POST SECTION NAME								
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	...	10.0
1/10/2013		+1		+1			+1		
2/11/2013				+1.2					
3/12/2013	+2			+1.2					
4/13/2013		+1		+1.2			+1		
5/14/2013				+1.2					
6/15/2013				+2.5					
6/15/2013									

FIG.14

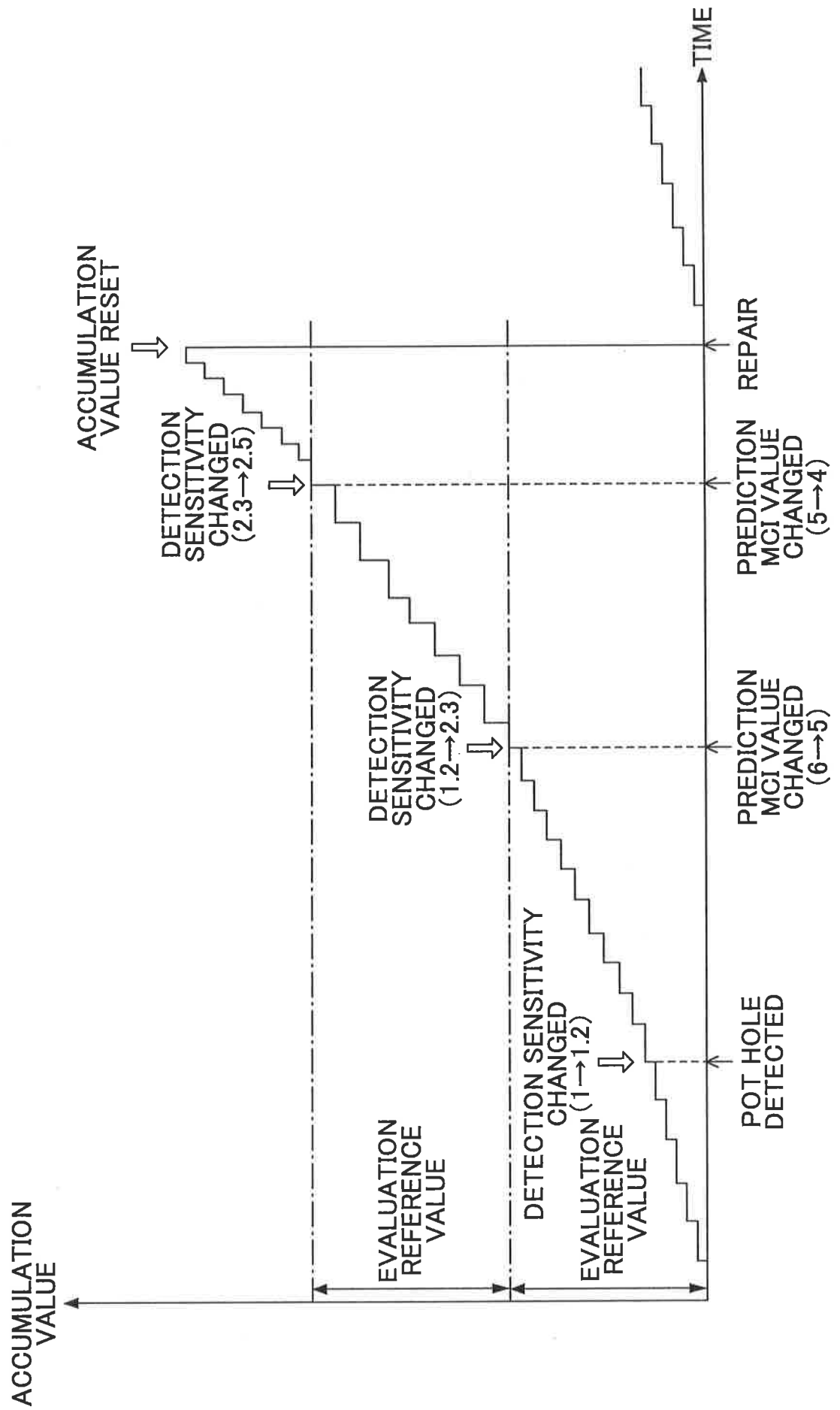


FIG.15

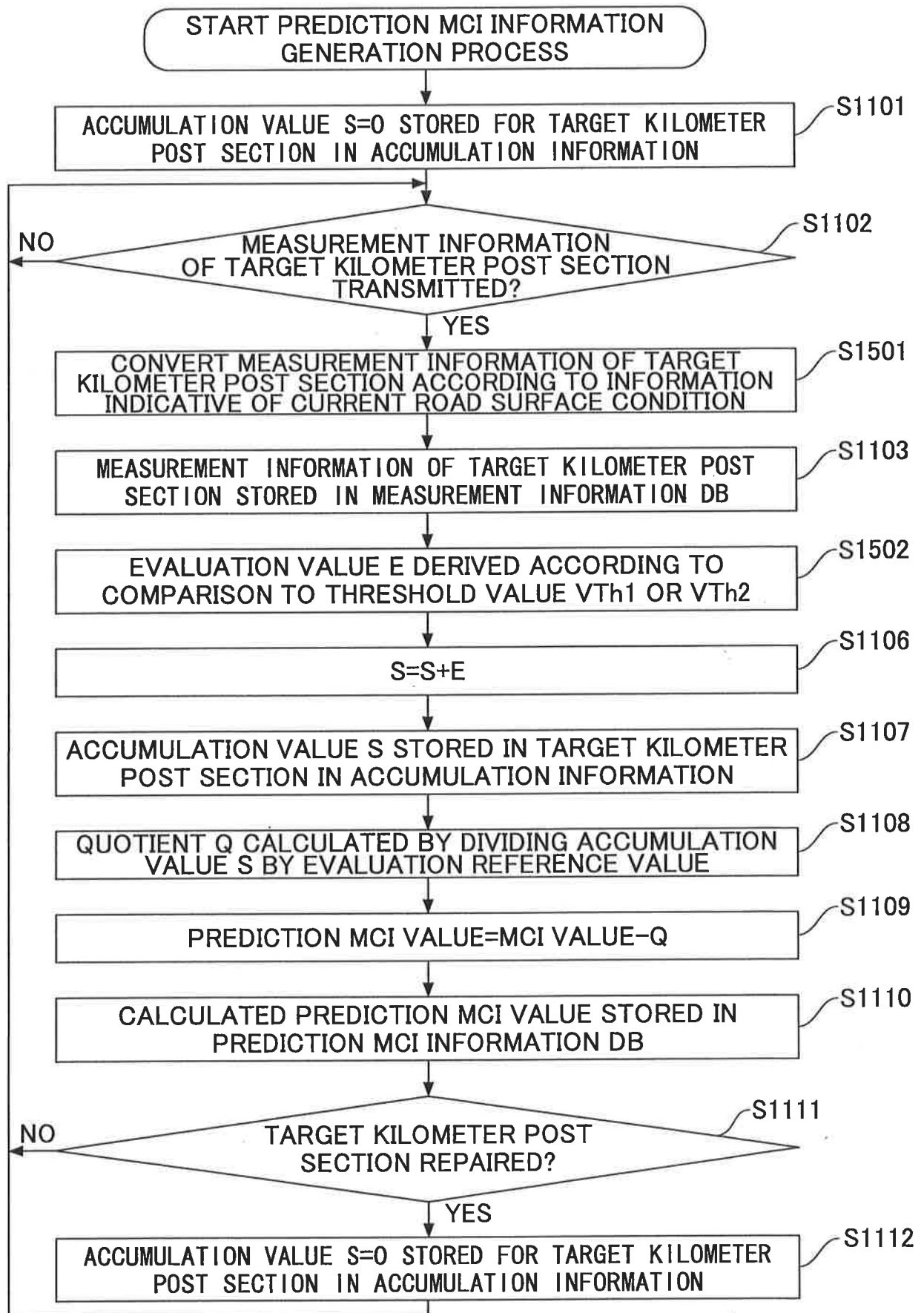


FIG.16

1600

PREDICTION MCI INFORMATION			
KILOMETER POST SECTION NAME	START POINT	END POINT	PREDICTION MCI VALUE
0.1	(a_0, b_0)	(a_1, b_1)	8
0.2	(a_1, b_1)	(a_2, b_2)	LOW RELIABILITY
0.3	(a_2, b_2)	(a_3, b_3)	LOW RELIABILITY
0.4	(a_3, b_3)	(a_4, b_4)	3
0.5	(a_4, b_4)	(a_5, b_5)	7
0.6	(a_5, b_5)	(a_6, b_6)	9
0.7	(a_6, b_6)	(a_7, b_7)	5
0.8	(a_7, b_7)	(a_8, b_8)	4
0.9	(a_8, b_8)	(a_9, b_9)	4
1.0	(a_9, b_9)	(a_{10}, b_{10})	LOW RELIABILITY
1.1	(a_{10}, b_{10})	(a_{11}, b_{11})	LOW RELIABILITY

10.0	(a_{99}, b_{99})	(a_{100}, b_{100})	6
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FIG.17

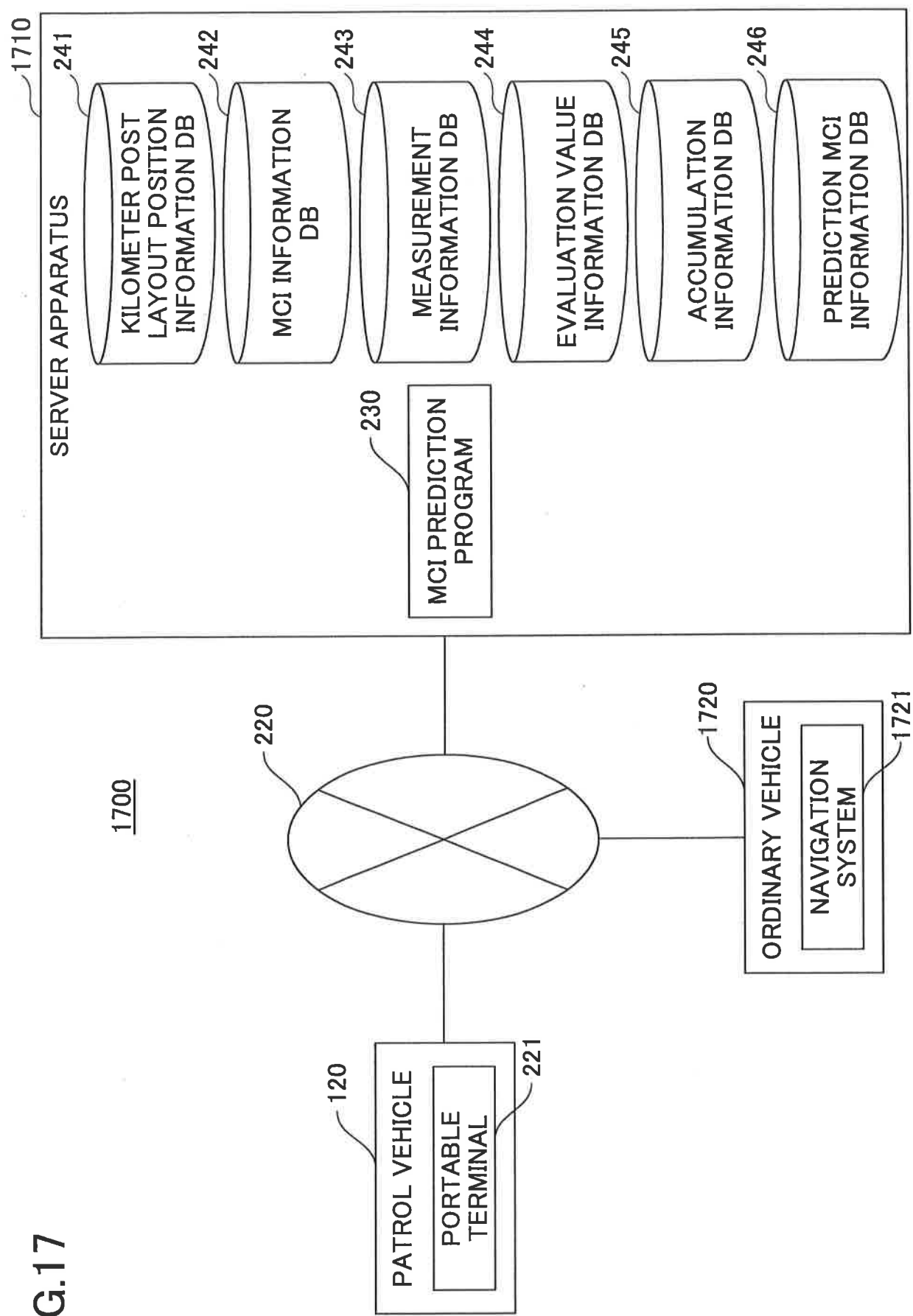


FIG.18

