

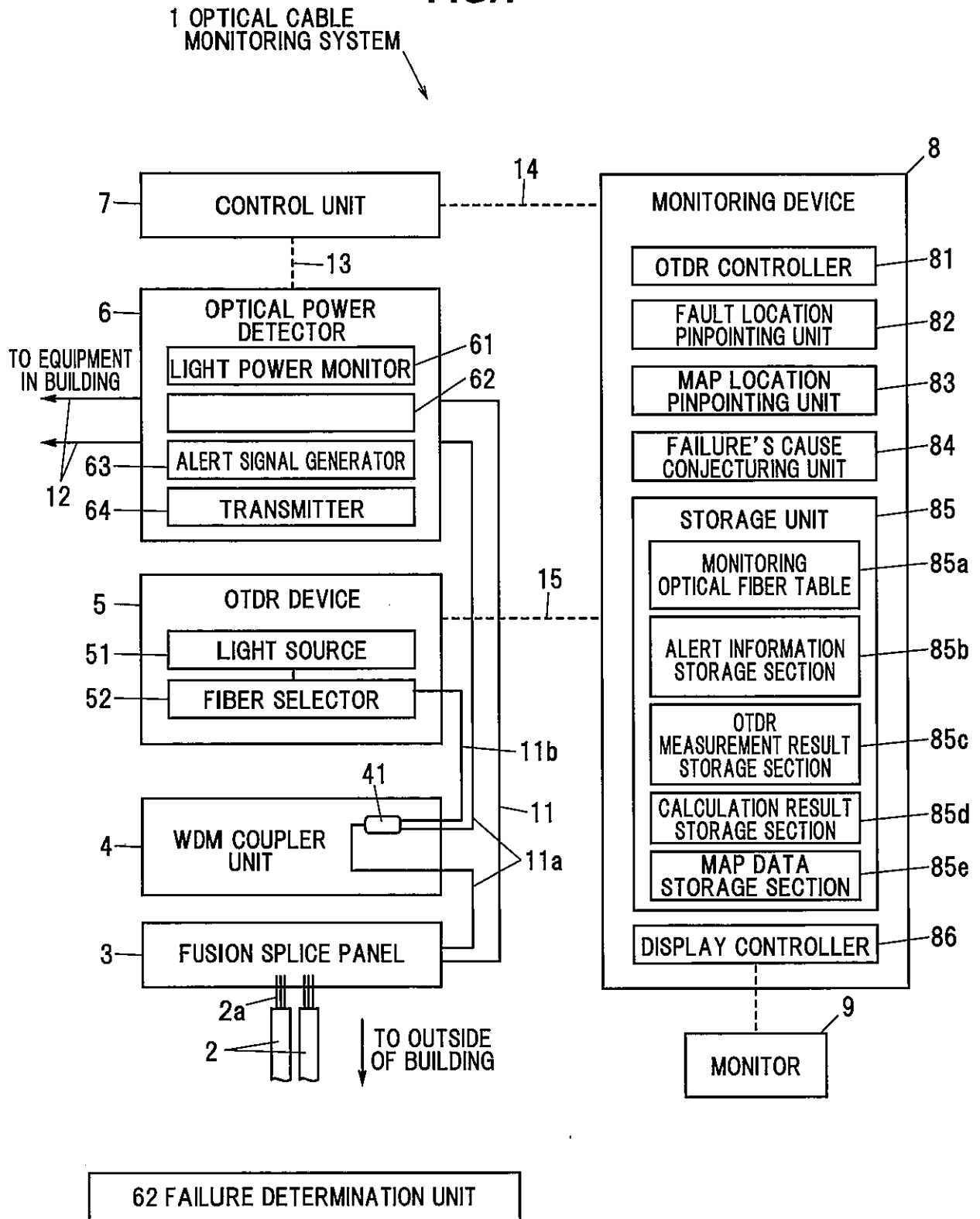
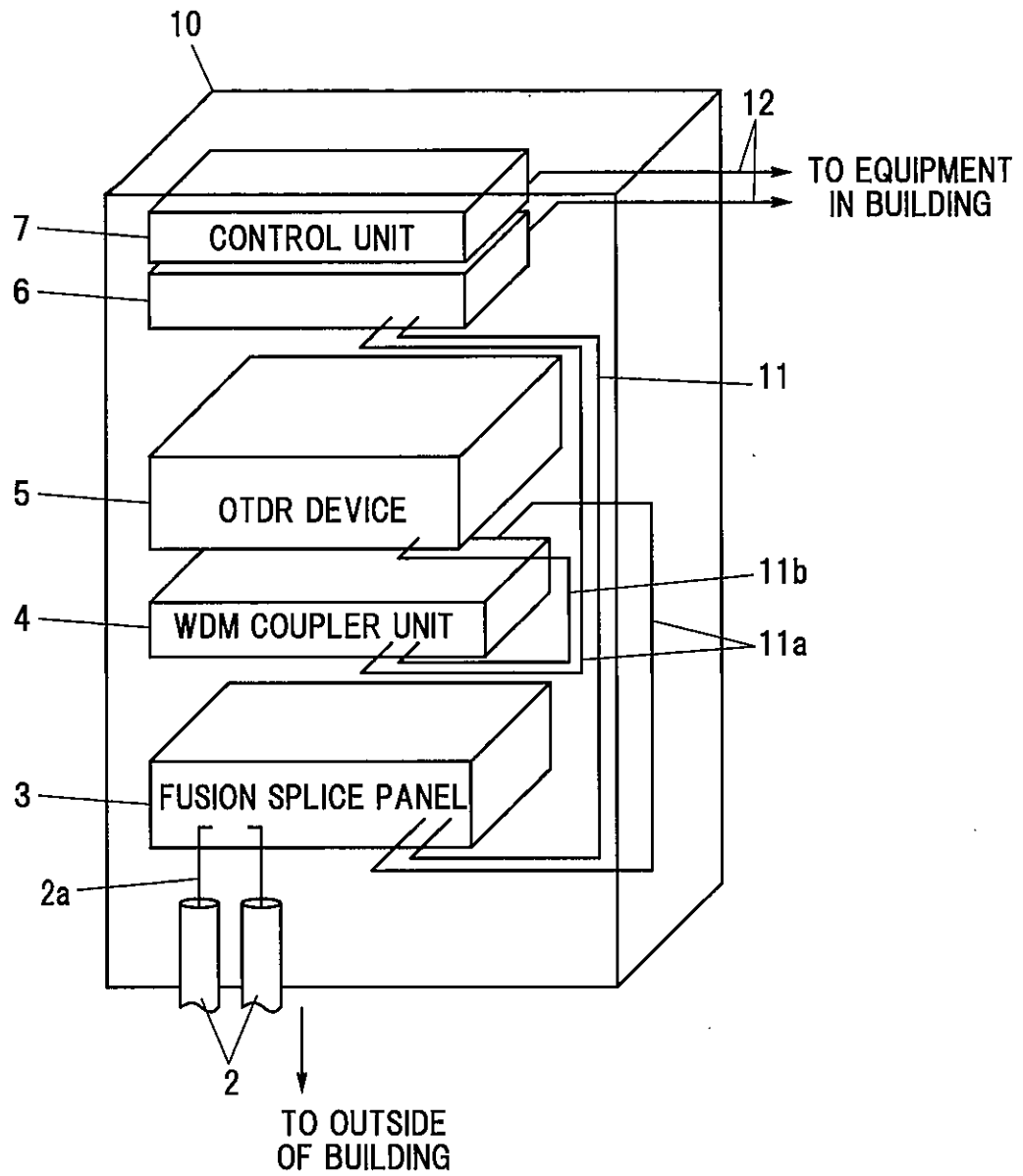
FIG. 1

FIG.2



6 OPTICAL POWER DETECTOR

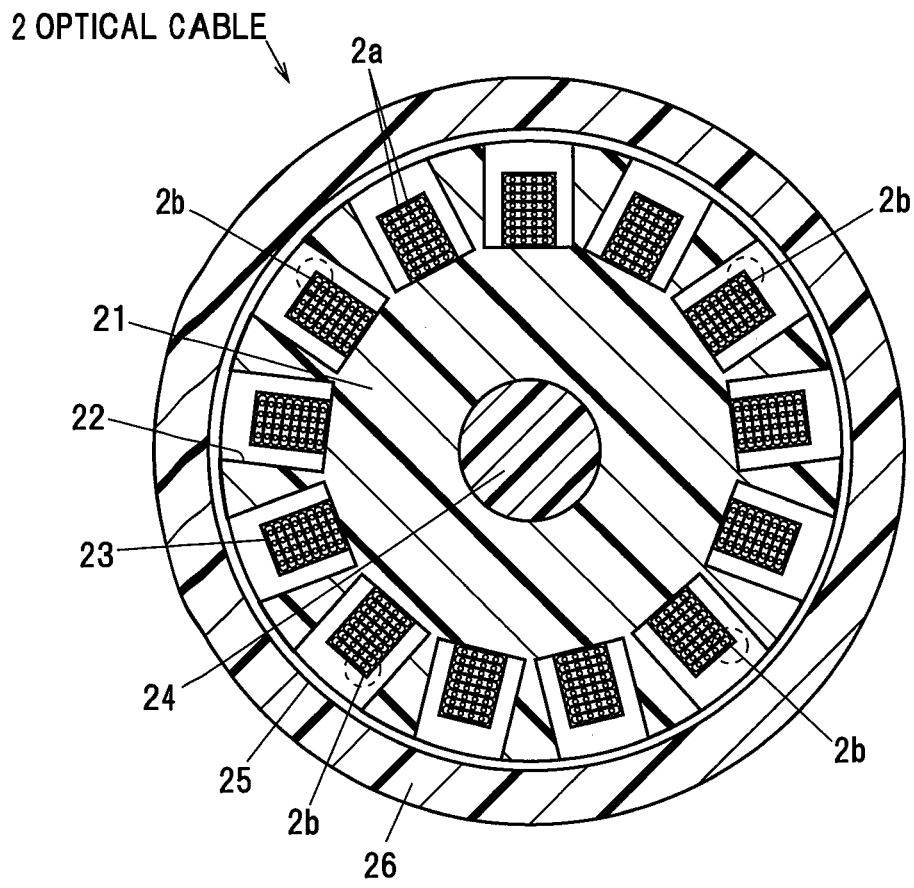
FIG.3

FIG.4A



FIG.4B

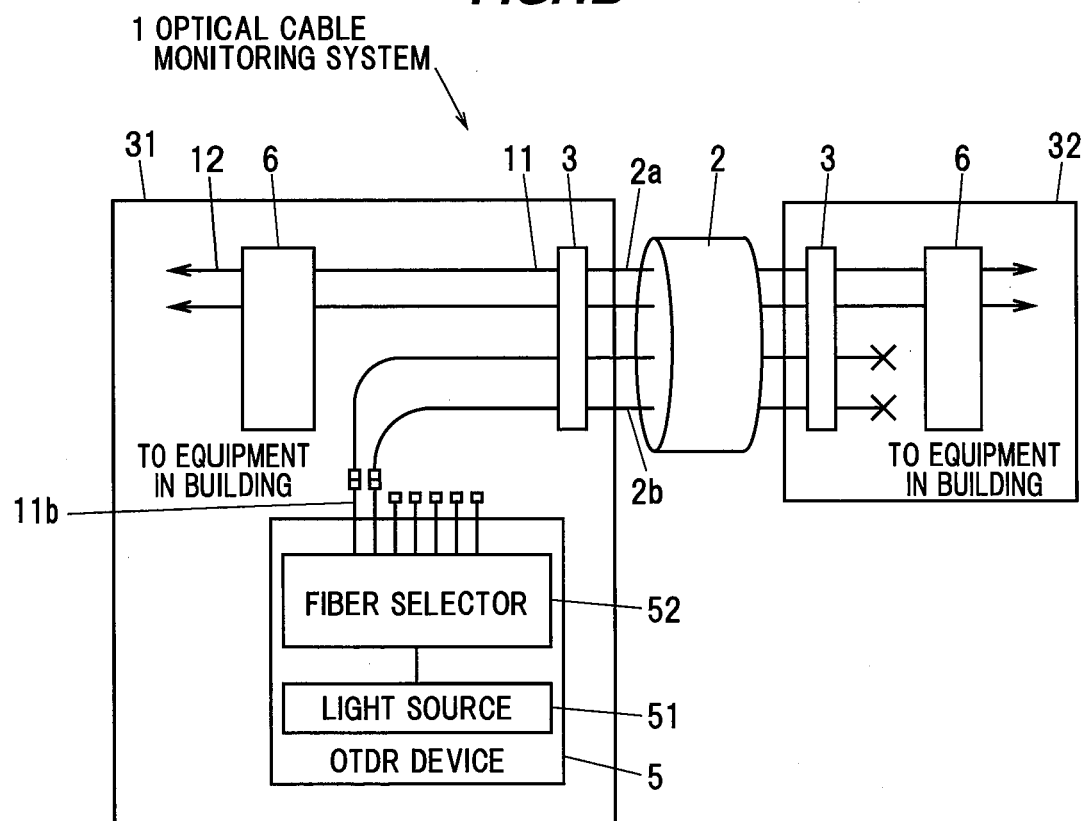
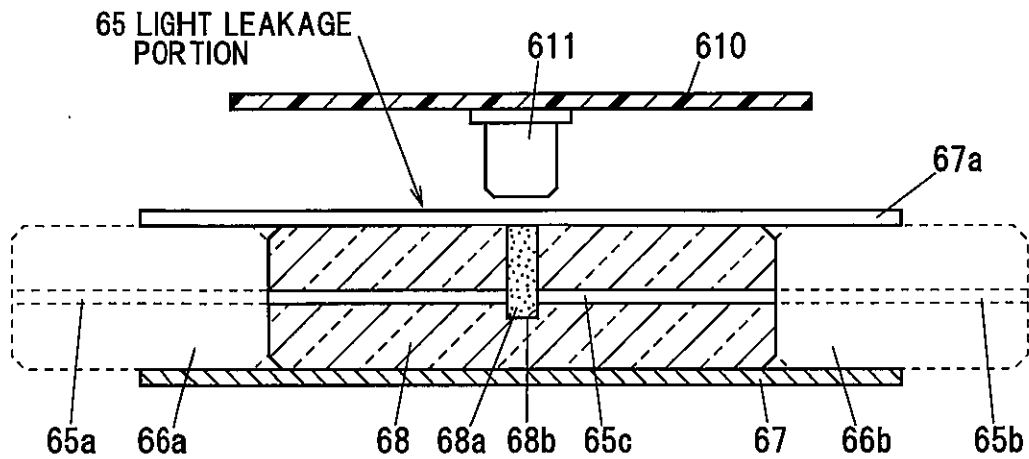
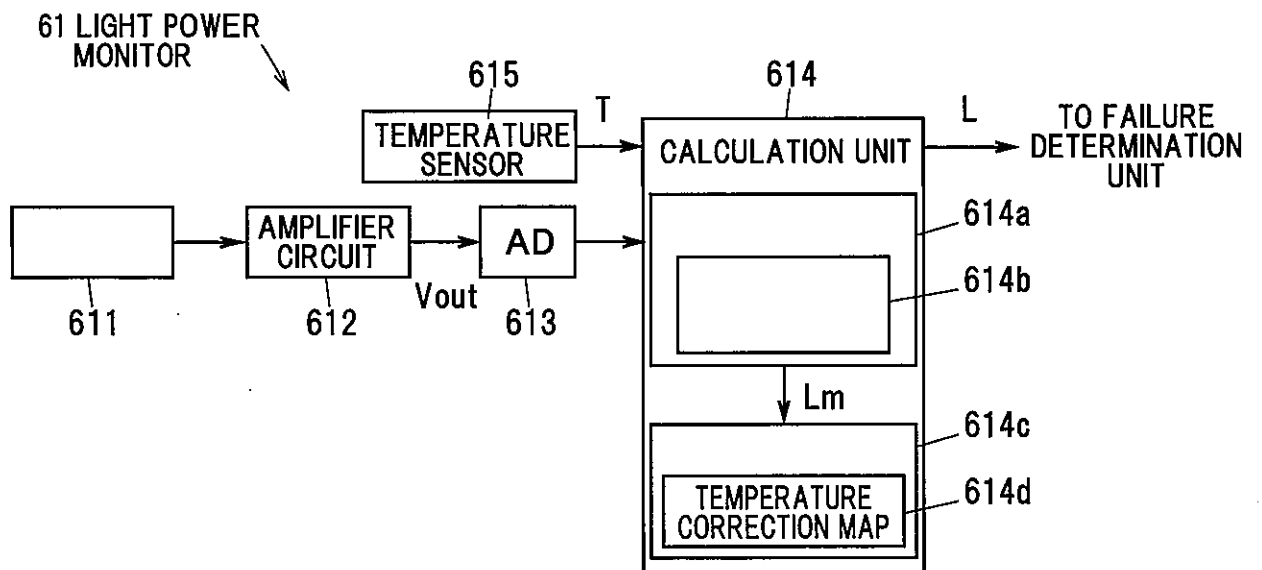


FIG.5**FIG.6**

611 LIGHT-RECEIVING ELEMENT
 614a MEASURED LIGHT INTENSITY CALCULATION SECTION
 614c TEMPERATURE CORRECTION SECTION
 614b VOLTAGE-TO-LIGHT INTENSITY CONVERSION MAP

FIG.7

612 AMPLIFIER CIRCUIT

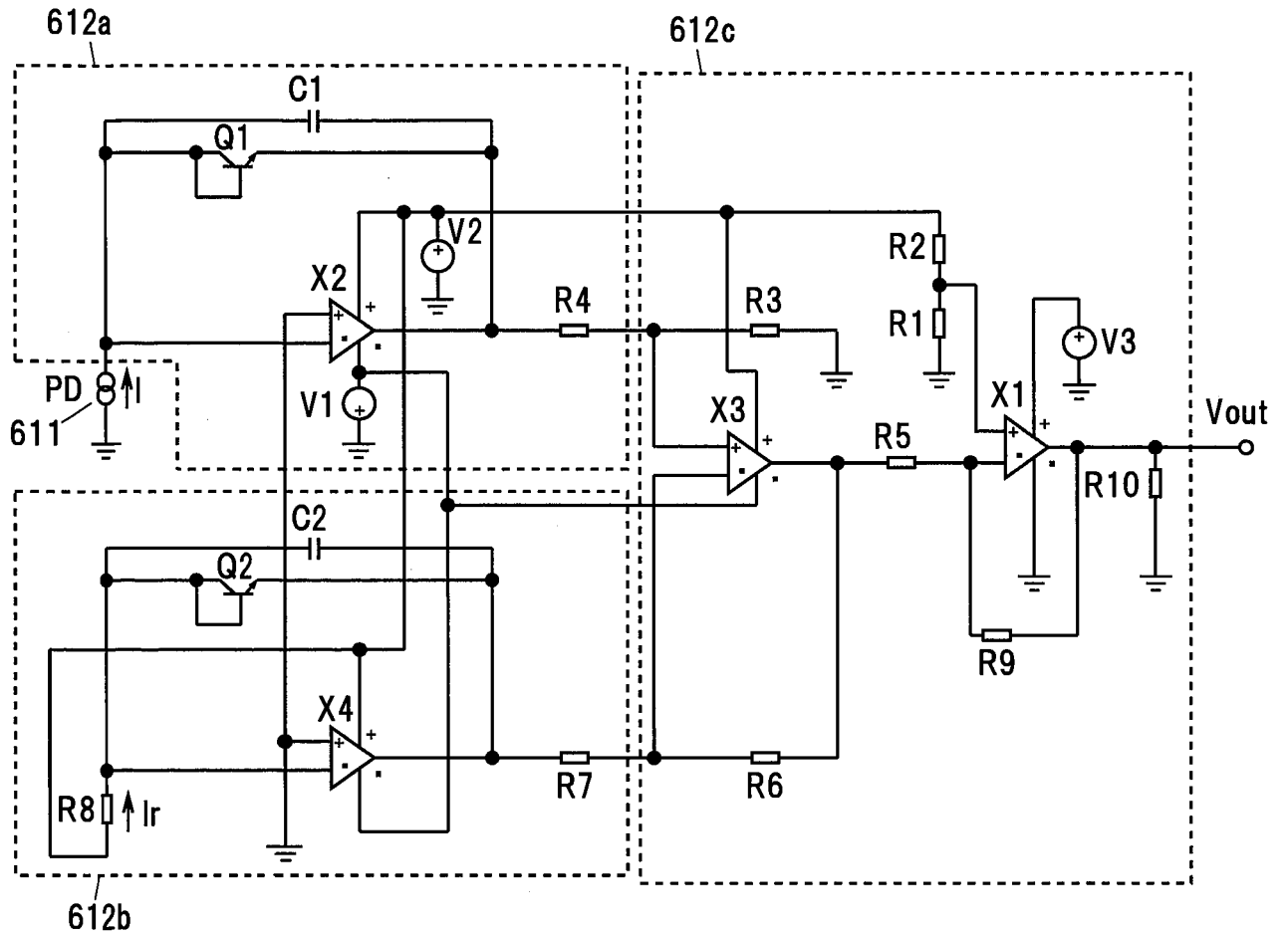


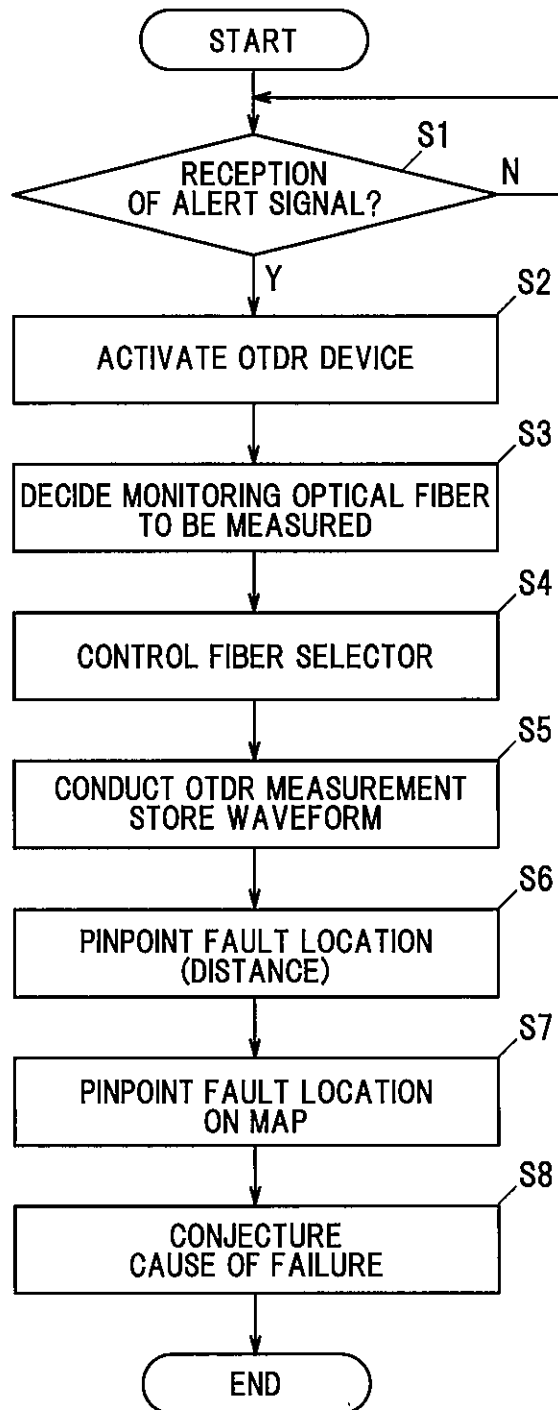
FIG.8

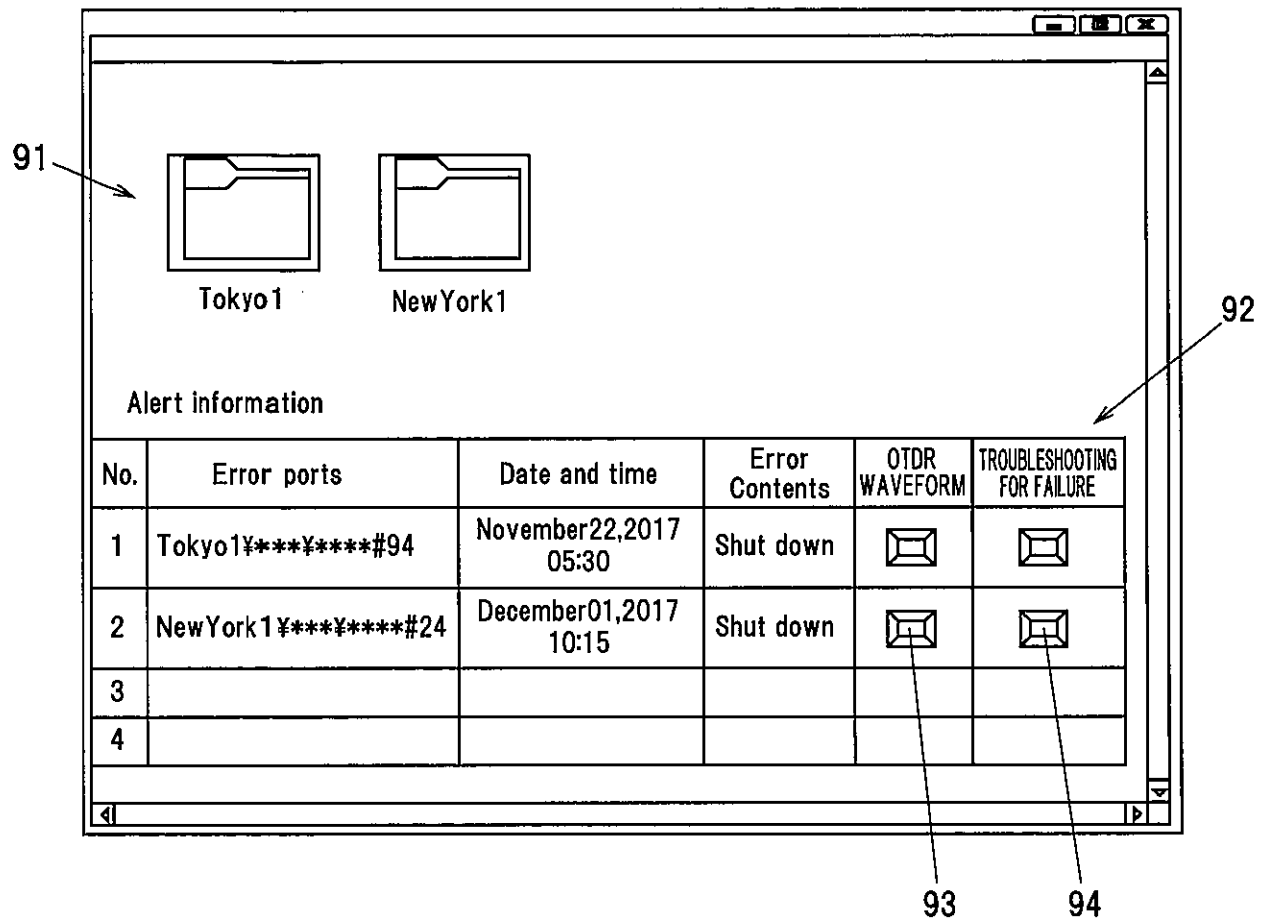
FIG.9

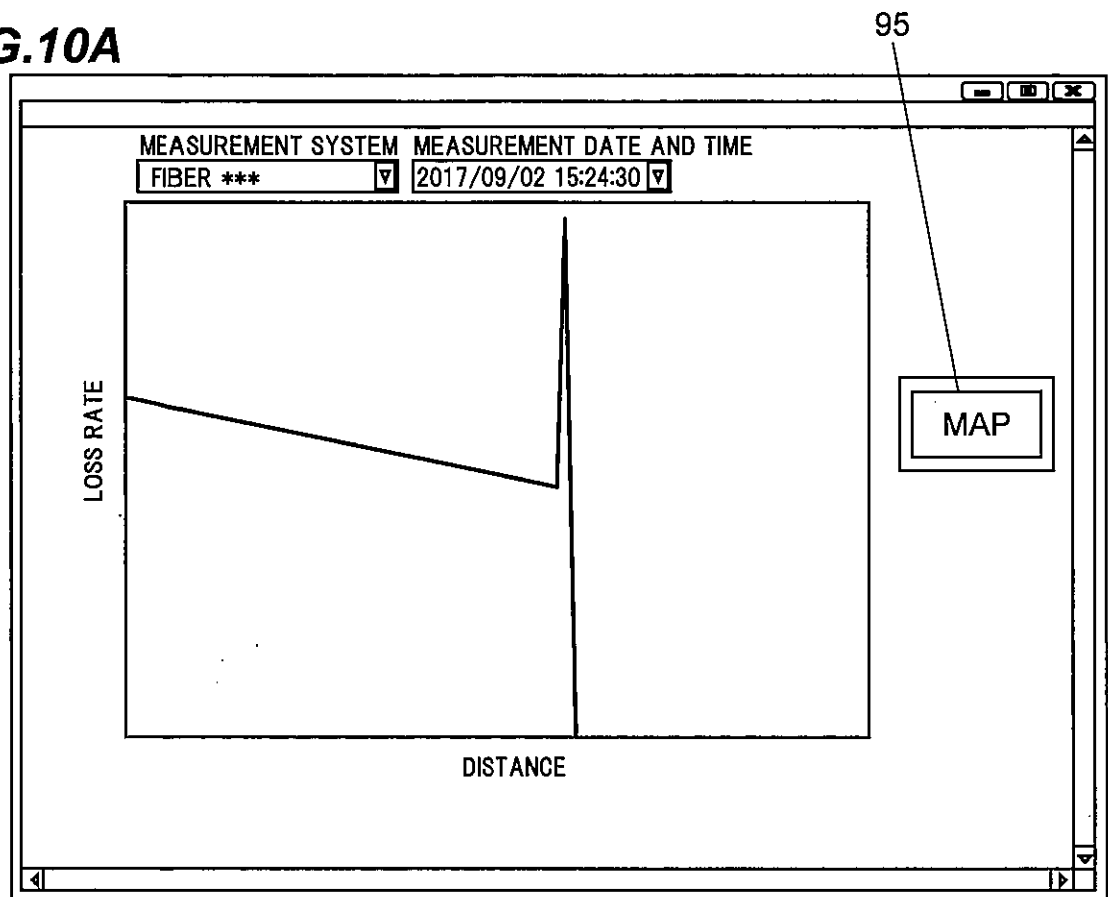
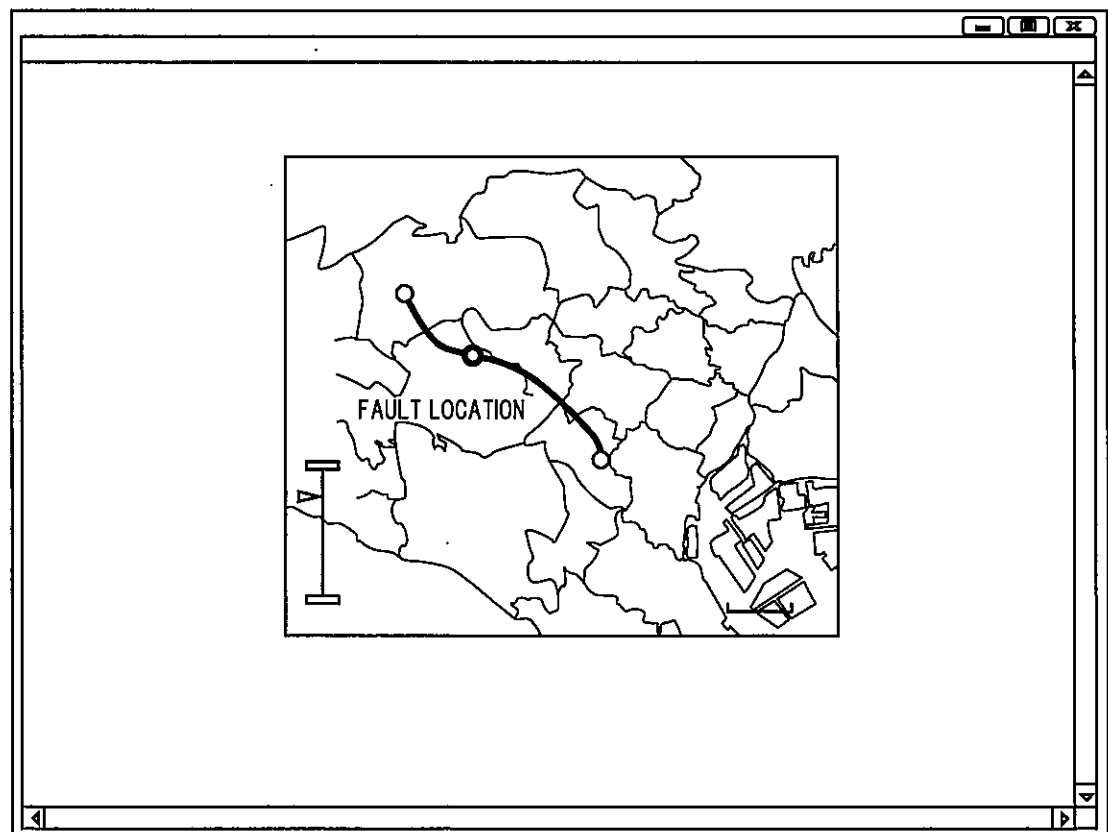
FIG.10A**FIG.10B**

FIG.11A

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DETAILS OF FAILURE

FAILED PORT	LOCATION OF FAILURE	EVENT OF FAILURE	TIME OF FAILURE
***#1~#100	12,050m	WIRE BREAKAG	2017.07.03 13:15:00 ~ 2017.07.03 13:15:20

97

CAUSES OF FAILURE

FAILED PORT	DURATION OF FAILURE	PROBABLE CAUSE
PLURAL PORTS	SEVERAL CORES BROKEN IN 20 SECONDS	ROAD EXCAVATION WORK

98

RESPONSE TO FAILURE

No.	INSTRUCTION	RESULT ENTRY FIELD
1	CHECK WORK PROJECT INFORMATION AROUND 12,000m-POINT	ONE ROAD-WIDENING WORK, APPLICATION FILED
2	CHECK PRESENCE OF NEARBY CABLES	THERE ARE NEARBY CABLES
3	CHECK CONDITION OF NEARBY CABLES	LOSS FLUCTUATION ≤ 1 dB, NORMAL

FIG.11B

96

DETAILS OF FAILURE

FAILED PORT	LOCATION OF FAILURE	EVENT OF FAILURE	TIME OF FAILURE
***#1	150m	LOSS FLUCTUATION	2017.07.03 13:15:00 ~ CONTINUING

97

CAUSES OF FAILURE

FAILED PORT	DURATION OF FAILURE	PROBABLE CAUSE
ONE PORT	LONG PERIOD OF TIME	FAULTY CONNECTOR CONNECTION

98

RESPONSE TO FAILURE

No.	INSTRUCTION	RESULT ENTRY FIELD
1	CHECK CONNECTOR CONNECTION POINT IN BUILDING A, 1st FLOOR	CONNECTOR WAS ABOUT TO COME OFF
2	RESTORE PROPER CONNECTOR CONNECTION IN BUILDING A, 1st FLOOR	THERE ARE NEARBY CABLES