display device 1. Specifically, when the display device 1 is activated as the operation of the train 4 is started, the controller 13 performs the operation illustrated in the flowchart in FIG. 6. Since the train 4 is normally stopped at the time when the train 4 starts operating, the controller 13 performs the operation illustrated in the flowchart in FIG. 6 immediately after the start of the operation of the train 4. In the display device 1, the display method determined for the display 11 by the controller 13 is maintained until the train 4 finishes the operation. In the display device 1, the processing load of the controller 13 can be reduced by limiting the operation to be performed by the controller 13 to determine a display method in the display 11 to only one time.

[0030] Note that, in a case where the display device 1 is restarted due to a malfunction or the like during an operation of the train 4, the operation illustrated in the flowchart in FIG. 6 is performed again. In this case, the controller 13 does not determine a display method in the display 11 while the train 4 is running, and determines a display method in the display 11 after the train 4 stops. Thus, even in a case where the display device 1 is restarted, erroneous determination when the controller 13 determines a display method in the display 11 can be reduced.

[0031] Further, in the first embodiment described above, the display 11 can display the display data in the prescribed direction or the upside-down direction. However, the present invention is not limited to this. The display 11 may display the display data rotated 90 degrees rightward or leftward. In this case, the detector 12 is a sensor capable of detecting that the installation state of the display 11 is a state in which the display 11 has been

circuit 93 independently of one another, or each of the functions may be collectively achieved with the processing circuit 93.

[0036] Note that some of the functions of the display device 1 may be achieved with dedicated hardware, and the others may be achieved with software or firmware. In this manner, a processing circuit can achieve the above described functions with dedicated hardware, software, firmware, or a combination thereof.

[0037] As described above, according to the first embodiment, in the display device 1 that can be mounted on the train 4 in the upside down direction, the controller 13 determines to cause the display 11 to display the display data in the prescribed direction in a case where the display 11 is installed with the top and the bottom thereof being oriented in the prescribed direction, and determines to cause the display 11 to display the display data in the upside-down direction in a case where the display 11 is installed in the upside-down direction, while the train 4 remains stopped. Further, in a case where the train 4 is running, the controller 13 does not determine a display method of the display data in the display 11. In this manner, the display device 1 mounted on the train 4 can reduce erroneous determination in determining the orientation of display of the display data.

[0038] Second Embodiment.

In the first embodiment, the display device 1 determines a display method once after activation of the display device 1, and maintains the determined display method until the train 4 is activated next time. A second embodiment concerns a case where the display device 1 repeatedly determines a display method while the train 4 is operating.

embodiment, the display device 1 repeatedly determines a display method. Even in a case where a display method has not been correctly determined for the display 11 due to erroneous determination made by the detector 12, the display device 1 can perform an operation for determining a display method when the train 4 stops, and correct the display method in the display 11.

[0041] As described above, according to the second embodiment, the display device 1 performs an operation for determining a display method every time the train 4 stops. Accordingly, even in a case where the display device 1 did not correctly determine a display method due to erroneous determination made by the detector 12, the display device 1 can correct the display method when the train 4 stops.

[0042] The configuration described in the above embodiment is an example of the subject matter of the present invention, and may be combined with other known techniques, or may be partially omitted or modified without departing from the scope of the present invention.

Reference Signs List

[0043] 1, 1-1 to 1-12 display device; 2-1 to 2-6 door; 3-1 to 3-6 car; 4 train; 6-1, 6-2, 56 connector; 7-1, 7-2 cable; 8 terminal device; 9 control network line; 11 display; 12 detector; 13 controller; 50 recess; 51 to 55 face; 111 display control unit; 112 monitor unit.