DESCRIPTION

ON-BOARD INFORMATION DISPLAY CONTROL SYSTEM

Field

[0001] The present invention relates to an on-board information display device, an on-board information display control device, an on-board information display control system, and an on-board information display control method for providing on-board information to passengers on a train.

Background

[0002] Trains conventionally provide service to passengers by displaying, on a display device, on-board information including operation information such as a destination, a stop, a current train location, and delay information.

[0003] For the purpose of "displaying information by dividing a screen and displaying different contents on different display units" in a train including a plurality of display devices, Patent Literature 1 discloses an information distribution system that "includes a mobile object information server disposed in a mobile object and the plurality of display devices each disposed at a predetermined site in the mobile object. The mobile object information server includes a recording server that stores distribution information to be displayed on the plurality of display devices and a first control unit that controls the recording server. Each of the plurality of display devices includes the display unit and a second control unit

starts displaying the information on the display units in synchronization, is not limited to that ground information, but may be vehicle information such as the kilometrage or speed of the train.

[0049] Note that the non-synchronous display data in S39 is generated at regular intervals, and the generated non-synchronous display data is used in performing the non-synchronous display in S41 in the areas that performed the partial synchronous display.

[0050] FIG. 9 is a diagram illustrating an example of the display screen according to the second embodiment. As illustrated in FIG. 9, the synchronous display screen A is displayed at the bottom of the display unit 22a, the synchronous display screen B is displayed at the bottom of the display unit 22b, and the synchronous display screen A and the synchronous display screen B form a single screen. The display unit 22a displays a non-synchronous display screen A on the area thereof other than the synchronous display screen A. The display unit 22b displays a non-synchronous display screen B on the area thereof other than the synchronous display screen B.

[0051] FIG. 10 is a diagram illustrating a specific example of the display screen according to the second embodiment. The synchronous display screen A and the synchronous display screen B in FIG. 10 act together as the single screen indicating that the operation of an XY line is suspended due to an accident causing injury or death while the non-synchronous display screen A indicates that the train is an express train bound for an A station and the non-synchronous display screen B indicates that the next stop is a B station. While performing the non-synchronous display to thereby provide the information, the plural display units perform the synchronous display on the

CLAIMS

1. An on-board information display control system to control on-board information display on a plurality of display units, the system comprising:

an on-board information display device including a display content storage unit to store a display content; and

a relay device including a synchronization/non-synchronization determination unit to make a synchronous display determination from on-board information that is to be displayed on the plurality of display units, the synchronous display determination indicating whether parts or all of display screens to be displayed on the plurality of display units are to be synchronized, the relay device outputting a display-execution-processing determination result on a basis of the synchronous display determination, wherein

the on-board information display device receives the display-execution-processing determination result and generates display data from the display content and displays the data to allow the display screens to be displayed on the plurality of display units, in synchronization or without synchronization in accordance with the display-execution-processing determination result.

2. The on-board information display control system according to claim 1, wherein the plurality of display units is arranged side by side, and

the plurality of display units is synchronized in accordance with the display-execution-processing determination result to thereby form a single display screen on the plurality of display units.