

PASSENGER BOARDING BRIDGE MONITORING DEVICE

ABSTRACT

Provided is a passenger boarding bridge monitoring device that is capable of assuredly detecting a state where passenger boarding bridges have come close to each other. In one example of the passenger boarding bridge monitoring device according to the present invention, each of the passenger boarding bridges (1A, 1B) includes: a rotunda (4); a tunnel unit (5); a travel device (9); a cab (6); a detector that detects a rotational angle of the rotunda (4); a detector that detects a length of the tunnel unit (5); and a detector that detects a rotational angle of the cab (6). The passenger boarding bridge monitoring device includes: a line calculator configured to calculate, for one of the passenger boarding bridges, a current position of a virtual line based on detection values of the respective detectors of the one passenger boarding bridge, the virtual line being shifted outward from a profile of the one passenger boarding bridge of its side adjacent to the other passenger boarding bridge and having a shape conforming to a shape of the profile, the line calculator being configured to calculate, for the other passenger boarding bridge, a current position of a virtual line based on detection values of the respective detectors of the other passenger boarding bridge, the virtual line either extending along or being shifted outward from a profile of the other passenger boarding bridge of its side adjacent to the one passenger boarding bridge and having a shape confirming to a shape of the profile: and a monitoring controller configured to determine whether or not the virtual lines of the respective passenger boarding bridges are in a state of crossing each other, and if it is determined that the virtual lines are in the state of crossing each other, perform a first coming-close hindering process.

Fig. 1