

OPERATION CONTROL SYSTEM AND OPERATION CONTROL METHOD FOR PASSENGER CONVEYOR

ABSTRACT

[Problem] To detect the existence of a portion from which a step has been removed immediately after a start-up instruction is given to a passenger conveyor so that safety of passengers and workers can be secured before the passenger conveyor is operated at a rated velocity

[Solution] An operation control system for an escalator (passenger conveyor) E which includes steps 1 linked to one another endlessly and travels between upper and lower boarding areas 1a and 1b diagnoses existence of an opening portion caused by a missing one of the steps 1 of the escalator E and controls the travelling of the escalator E based on a result of the diagnosis. The system includes a starting torque calculating portion 8 which calculates driving torque with which the escalator E starts up, and an opening existence diagnosing portion which diagnoses the existence of the opening portion caused by the step, based on a value of the driving torque with which the escalator E starts up and conditions of an operation direction of the escalator E. When the existence of the opening portion is diagnosed, an information unit provides information about the current position of the opening portion.

[Selected Drawing] Fig. 2