

INSPECTION APPARATUS FOR HANDRAIL OF PASSENGER CONVEYER AND MAINTENANCE METHOD OF PASSENGER CONVEYER

ABSTRACT

An inspection apparatus for a handrail of a passenger conveyer for automatically evaluating quality of the handrail (4) from a state of steel cords built in the handrail (4) of the passenger conveyer and a maintenance method of the passenger conveyer are provided. The inspection apparatus has: an X-ray photographing unit (1) for photographing the handrail (4) of the passenger conveyer by an X-ray; and an image processing unit (2) for processing images photographed by the X-ray photographing unit (1), detecting a lack or entanglement of the steel cords built in the handrail, and judging that the quality of the handrail (4) is "serious damage" in the case where a length of lack or entanglement of the steel cords in the longer direction of the handrail continues by a predetermined length or more.

FIGURE 3