

MOVING HANDRAIL DETERIORATION DIAGNOSIS DEVICE

[ABSTRACT]

[Problem] A variation in an imaging position of a camera can be suppressed as much as possible even if a moving handrail of a passenger conveyor moves up/down and left/right.

[Solution] A moving handrail deterioration diagnosis device 1 in which an image of a recess portion bottom 102a of a moving handrail 102 is taken by a camera 2 in the state in which the moving handrail 102 is operated and a deterioration state of the moving handrail 102 is diagnosed from the image taken by the camera 2, the moving handrail deterioration diagnosis device 1 including: a camera mounting mechanism 3 to which the camera 2 is fixed and which is disposed within a recess portion 102h of the moving handrail 102; a tracking mechanism (5a, 5b, 5c, 5d, 6a, 6b, 7a and 7b) allowing the camera mounting mechanism 3 to track the moving handrail 102 along a longitudinal axis X of the recess portion 102h while touching the recess portion bottom 102a and first and second end portions 102b and 102c; and an arm type bracket 4 having one end attached to the camera mounting mechanism 3 and the other end attached to a frame 105 so that the arm type bracket 4 supports the camera mounting mechanism 3 on the frame 105 while allowing the tracking operation of the camera mounting mechanism 3.

Fig. 6