

MOVING HANDRAIL FLAW DETECTION APPARATUS FOR PASSENGER CONVEYOR

[ABSTRACT]

[Problem] Flaw detection can be performed with high accuracy in a simple apparatus and the workability is also improved.

[Solution] A moving handrail flaw detection apparatus S having: an X-ray device 4; and a moving distance measuring device 7 for measuring a movement amount of the X-ray device 4 in order to perform flaw detection on a moving handrail 2 of an escalator 100; wherein: the moving distance measuring device 7 includes a reduction mechanism 40 and a second roller 27 for moving the X-ray device 4 at a constant velocity; the moving distance measuring device 7 has a measuring portion 7a located in an upper portion, a drive portion 7b located in a lower portion so that the moving handrail 2 can be sandwiched between the measuring portion 7a and the drive portion 7b, and second latch locks 18 for linking the measuring portion 7a and the drive portion 7b with each other; an optical mouse 8 and a first roller 14 for measuring the movement amount are provided in the measuring portion 7a; and the reduction mechanism 40 and the second roller 27 are provided in the drive portion 7b.

Fig. 3