

Title (en)

HANDRAIL TENSION MONITORING DEVICE FOR A PASSENGER TRANSPORT SYSTEM

Title (de)

HANDLAUFSPANNUNGS-ÜBERWACHUNGSEINRICHTUNG FÜR EINE PERSONENTRANSPORTANLAGE

Title (fr)

DISPOSITIF DE SURVEILLANCE DE TENSION DE MAIN COURANTE POUR UN SYSTÈME DE TRANSPORT DE PERSONNES

Publication

**EP 4217303 A1 20230802 (DE)**

Application

**EP 21777434 A 20210909**

Priority

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- EP 2021074821 W 20210909

Abstract (en)

[origin: WO2022063595A1] The invention relates to a handrail tension monitoring device (41) for a passenger transport system (1) designed as a moving walkway or escalator. The handrail tension monitoring device (41) has at least one distance sensor (34) and a signal processing unit (47). The measurement signals (M) recorded by the distance sensor (34) can be processed and evaluated in the signal processing unit (47). The oscillation frequency (f) of a scanned handrail (15) of the passenger transport system (1) can be determined in the signal processing unit (47) from the signal curve (MV) of the measurement signals (M), and the frequency can be compared with at least one lower threshold value (US) and/or upper threshold value (OS), an alarm signal (Z) being generated when the lower threshold value (US) is fallen below, and a warning signal (W) being generated when the upper threshold value (OS) is exceeded.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2022063595A1

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