

Title (en)

PASSENGER CONVEYOR DRIVE MONITORING ARRANGEMENT WITH BRAKE ACTUATION

Title (de)

PERSONENBEFÖRDERUNGSEINRICHTUNGSANTRIEBS-ÜBERWACHUNGSANORDNUNG MIT BREMSBETÄTIGUNG

Title (fr)

DISPOSITIF DE SURVEILLANCE EQUIPE D'UN MECANISME D'ARRET D'URGENCE, DESTINE A UN ORGANE D'ENTRAINEMENT D'ESCALIER MECANIQUE

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Application

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Priority

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Abstract (en)

[origin: WO2005051811A1] A passenger conveyor drive assembly (40) includes drive members such as belts (42) that engage a step chain (30). A monitoring device (50) provides an indication of a damaged or broken drive member (42) by monitoring the relative rotations between wheels (44, 46). In one example, relative rotation between deflection wheels (46) provides an indication that one of the drive members (42) is not performing as well as the other. In another example, a comparison between the speed of rotation of the drive wheels (44) on the one hand and the deflection wheels (46) on the other hand allows for independently monitoring each of the drive members (42) of the drive assembly. In a disclosed embodiment, the monitoring device includes rotating members (52, 56) that normally rotate in unison and move into another position when there is relative rotation between the selected wheels. Such movement provides an indication of a malfunction of the drive system and may actuate the brake as needed.

IPC 8 full level

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