

Title (en)

HANDRAIL DRIVING SYSTEM FOR AN ESCALATOR

Title (de)

HANDLAUFANTRIEBSSYSTEM FÜR EINE FAHRTREPPPE

Title (fr)

SYSTÈME DE COMMANDE DE MAIN-COURANTE POUR UN ESCALIER ROULANT

Publication

EP 3753894 A1 20201223 (EN)

Application

EP 20382029 A 20200121

Priority

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Abstract (en)

The invention relates to a handrail system (100) for transport system and a method to adapt the handrail speed of an escalator. The handrail system comprises a first and a second handrail wheel (121) attached to a handrail shaft (120), a main shaft (110) configured to be coupled with a drive unit of the transport system and a force transfer system (130) comprising a connection means (133) connecting the main shaft (110) and the handrail shaft (120), wherein the connection means (133) is configured to transfer a driving force of the main shaft (110) to the handrail shaft (120). Especially, the force transfer system (130) comprises at least two pulleys (134, 135), wherein a first pulley (134) is mounted on the main shaft (110) and a second pulley (135) is mounted on the handrail shaft (120), and wherein at least one of the pulleys (134, 135) is configured to be changed in diameter in order to adapt the rotation speed of the handrail shaft (120) and accordingly a speed of a handrail driven by the handrail driving system (100).

IPC 8 full level

B66B 23/04 (2006.01); **B66B 23/06** (2006.01)

CPC (source: EP)

B66B 23/04 (2013.01); **B66B 23/06** (2013.01)

Citation (search report)

- [XAI] EP 2952465 A1 20151209 - THYSSENKRUPP ELEVATOR INNOVATI [DE]
- [A] US 6119845 A 20000919 - SONG KEE HYU [KR]
- [A] JP 2009184768 A 20090820 - MITSUBISHI ELECTRIC CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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