

Title (en)
BRAKE DEVICE FOR AN ELEVATOR CAB, COMPRISING AN INTEGRATED LOAD MEASURING DEVICE, USE THEREOF IN AN ELEVATOR SYSTEM, AND METHOD

Title (de)
BREMSVORRICHTUNG FÜR EINE AUFZUGKABINE MIT INTEGRIERTER LASTMESSEINRICHTUNG UND DEREN VERWENDUNG IN EINER AUFZUGANLAGE UND VERFAHREN

Title (fr)
DISPOSITIF DE FREIN POUR CABINE D'ASCENSEUR, COMPRENANT UN DISPOSITIF DE MESURE DE CHARGE INTÉGRÉ, SON UTILISATION DANS UN SYSTÈME D'ASCENSEUR, ET PROCÉDÉ

Publication
EP 4051613 A1 20220907 (DE)

Application
EP 20796610 A 20201029

Priority
• EP 19206540 A 20191031
• EP 2020080403 W 20201029

Abstract (en)
[origin: WO2021084012A1] The invention relates to a brake device (15) for braking a movable elevator cab (3) of an elevator system (1) and for measuring load changes produced in the elevator cab (3). The brake device comprises a brake (17), a brake holding assembly (19) for holding the brake against the elevator cab, a load measuring device (21) for measuring a force acting on a force transmission element (25), and a load measuring device holding assembly (23) for holding the load measuring device against the elevator cab. The brake and the brake holding assembly are configured such that the brake is held against the elevator cab and by means of the brake holding assembly such that the brake can move relative to the elevator cab in a force direction (39) produced by the brake. The load measuring device and the load measuring device holding assembly are configured such that the load measuring device is held against the elevator cab by means of the load measuring device holding assembly such that the load measuring device is fixed relative to the elevator cab in the force direction produced by the brake. The force transmission element of the load measuring device is operatively connected to the brake in order to be able to measure a force acting between the brake and the load measuring device on the basis of a movement of the brake relative to the load measuring device. The load measuring device holding assembly and the brake holding assembly are connected together in an elastically deformable manner by a web assembly.

IPC 8 full level
B66B 5/18 (2006.01); **B66B 1/34** (2006.01); **B66B 17/34** (2006.01)

CPC (source: CN EP KR US)
B66B 1/3484 (2013.01 - CN EP KR US); **B66B 5/18** (2013.01 - CN EP KR US); **B66B 7/04** (2013.01 - US); **B66B 17/34** (2013.01 - CN EP KR)

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)
BA ME

DOCDB simple family (publication)
WO 2021084012 A1 20210506; AU 2020376295 A1 20220526; AU 2020376295 B2 20240307; BR 112022007765 A2 20220705; CN 114616202 A 20220610; CN 114616202 B 20230929; EP 4051613 A1 20220907; JP 2022554006 A 20221227; KR 20220084065 A 20220621; US 11772933 B2 20231003; US 2022363515 A1 20221117

DOCDB simple family (application)
EP 2020080403 W 20201029; AU 2020376295 A 20201029; BR 112022007765 A 20201029; CN 202080076633 A 20201029; EP 20796610 A 20201029; JP 2022525305 A 20201029; KR 20227014116 A 20201029; US 202017755157 A 20201029