

Title (en)

SUSPENSION DEVICE AND USE THEREOF IN AN ELEVATOR SYSTEM, AND METHOD

Title (de)

AUFHÄNGEVORRICHTUNG UND DEREN VERWENDUNG IN EINER AUFZUGSANLAGE UND VERFAHREN

Title (fr)

DISPOSITIF DE SUSPENSION ET SON UTILISATION DANS UN SYSTÈME D'ASCENSEUR, ET PROCÉDÉ

Publication

EP 4271640 A1 20231108 (DE)

Application

EP 21845046 A 20211224

Priority

- EP 20217995 A 20201231
- EP 2021087632 W 20211224

Abstract (en)

[origin: WO2022144322A1] The invention relates to a suspension device (15) for securing a brake (17) and at least one support means (6) and for measuring a load. The suspension device (15) has at least one brake (17) for braking the elevator cab (3) relative to a stationary component (13) of the elevator system (1); a brake holding assembly (19) for holding the brake (17) on the elevator cab (3); and a support means holding assembly (23) for holding the support means (6) on the elevator cab (3). The support means (6) is designed to connect the elevator cab (3) to a counterweight (8) of the elevator system (1). The brake (17) and the brake holding assembly (19) are configured such that the brake (17) is to be held against the elevator cab (3) by means of the brake holding assembly (19) such that the brake (17) can be moved relative to the elevator cab (3) substantially in a force direction (38) produced by the brake (17), and the support means (6) and the support means holding assembly (23) are configured such that the support means (6) is to be held against the elevator cab (3) by means of the support means holding assembly (23) such that the support means (6) can be moved relative to the elevator cab (3) substantially in a force direction (39) produced by the support means (6). A load measuring device (21) is arranged such that an exerted force (38, 39), which is produced by the relative movement of the support means (6) and/or the brake (17), can be measured.

IPC 8 full level

B66B 7/08 (2006.01); **B66B 1/34** (2006.01); **B66B 5/18** (2006.01); **B66B 7/04** (2006.01)

CPC (source: EP US)

B66B 1/3476 (2013.01 - EP US); **B66B 5/145** (2013.01 - US); **B66B 5/18** (2013.01 - EP US); **B66B 7/042** (2013.01 - US); **B66B 7/047** (2013.01 - EP); **B66B 7/08** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022144322 A1 20220707; CN 116648419 A 20230825; EP 4271640 A1 20231108; US 2024059523 A1 20240222

DOCDB simple family (application)

EP 2021087632 W 20211224; CN 202180088239 A 20211224; EP 21845046 A 20211224; US 202118260097 A 20211224