

Title (en)

A MECHANISM FOR A SAFETY DEVICE FOR A LIFT CAR, A SAFETY DEVICE FOR PROTECTING AGAINST UNINTENDED CAR MOVEMENT OF A LIFT CAR AND A SAFETY ARRANGEMENT FOR A LIFT SYSTEM

Title (de)

MECHANISMUS FÜR EINE SICHERHEITSVORRICHTUNG FÜR EIN HUBFAHRZEUG, SICHERHEITSVORRICHTUNG ZUM SCHUTZ VOR UNBEABSICHTIGTEN FAHRZEUGBEWEGUNGEN EINES HUBFAHRZEUGS UND SICHERHEITSANORDNUNG FÜR EIN HUBSYSTEM

Title (fr)

MÉCANISME POUR UN DISPOSITIF DE SÉCURITÉ POUR UNE CABINE D'ASCENSEUR, DISPOSITIF DE SÉCURITÉ POUR LA PROTECTION CONTRE UN DÉPLACEMENT DE CABINE INVOLONTAIRE D'UNE CABINE D'ASCENSEUR ET AGENCEMENT DE SÉCURITÉ POUR UN SYSTÈME D'ASCENSEUR

Publication

EP 3847119 A4 20220907 (EN)

Application

EP 19857563 A 20190905

Priority

- SE 1851064 A 20180907
- SE 2019050833 W 20190905

Abstract (en)

[origin: WO2020050768A1] The present invention relates to a mechanism (20) for a safety device for lift car for preventing unintended car movement of the lift car. The mechanism comprise a brake (21) and at least one trigger element (30A,30B) which is coupled to the brake, wherein the at least one trigger element being capable of rotating around a regulator shaft of the safety device, wherein the at least one trigger element being brought into a trigger state by the brake (21) when the mechanism is activated, and in the trigger state, the at least one trigger element (30A,30B) is prevented from rotating by the brake (21), wherein the at least one trigger element (30A,30B) is connected to a first drive gear (24) wherein the brake (21) comprises a rotatable brake shaft (23) provided with a second drive gear (26) which is engaged with the first drive gear (24), and the brake comprises a brake arrangement (25) adapted to be engaged with the brake shaft when the mechanism is in an active state for braking the rotation of the brake shaft, the first and second drive gear and the at least one trigger element. The present invention also relates to safety device for a lift car and a safety arrangement for a lift system for preventing unintended car movement of the lift car.

IPC 8 full level

B66B 5/04 (2006.01); **B66B 11/02** (2006.01)

CPC (source: EP SE)

B66B 5/044 (2013.01 - EP SE); **B66B 5/048** (2013.01 - SE); **B66B 11/0293** (2013.01 - SE); **B66B 5/048** (2013.01 - EP); **B66B 11/0293** (2013.01 - EP); **F16D 2065/024** (2013.01 - SE); **F16D 2129/043** (2013.01 - SE)

Citation (search report)

- [A] EP 2380840 A1 20111026 - MITSUBISHI ELECTRIC CORP [JP]
- [A] US 3415343 A 19681210 - TORBJORN SVENSSON
- [A] US 2008149431 A1 20080626 - VANTANEN TEUVO [FI]
- [A] DE 2753079 A1 19790531 - ELBA WERK MASCHINEN GMBH & CO
- [A] WO 2010023745 A1 20100304 - MITSUBISHI ELECTRIC CORP [JP], et al
- See also references of WO 2020050768A1

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

DOCDB simple family (publication)

WO 2020050768 A1 20200312; **WO 2020050768 A9 20201112**; EP 3847119 A1 20210714; EP 3847119 A4 20220907; SE 1851064 A1 20200308; SE 542493 C2 20200526

DOCDB simple family (application)

SE 2019050833 W 20190905; EP 19857563 A 20190905; SE 1851064 A 20180907