

Title (en)

DOOR HAVING A FALL PROTECTION MECHANISM AND METHOD FOR TRIGGERING THE FALL PROTECTION MECHANISM

Title (de)

TOR MIT EINER ABSTURZSICHERUNG UND VERFAHREN ZUM AUSLÖSEN DER ABSTURZSICHERUNG

Title (fr)

PORTE À SÉCURITÉ ANTICHUTE ET PROCÉDÉ POUR DÉCLENCHER LA SÉCURITÉ ANTICHUTE

Publication

**EP 3555409 A1 20191023 (DE)**

Application

**EP 17835467 A 20171215**

Priority

- DE 102016225079 A 20161215
- EP 2017083109 W 20171215

Abstract (en)

[origin: WO2018109191A1] The invention relates to a door having a fall protection mechanism, comprising a door leaf (10) which can be opened and closed via the rotation of a door leaf drive (5), a motor (3) which is coupled to the door leaf drive, and a braking device (7) by means of which the opening and/or closing of the door leaf can be delayed, as well as a first measuring device (6) for determining at least one movement parameter of the door leaf. In order to improve a door of this type such that a falling of the door can be reliably detected, and likewise a braking device is reliably triggered, which quickly brakes the door and thereby prevents damage to the door, according to the invention, a second measuring device (1) is provided for determining at least one movement parameter of the motor, and a comparator (9) which compares the measured movement parameters of the door leaf and of the motor and triggers the braking device, if the measured movement parameter of the door leaf and of the motor fall outside of a defined ratio to one another.

IPC 8 full level

**E06B 9/68** (2006.01); **E06B 9/13** (2006.01); **E06B 9/15** (2006.01); **E06B 9/84** (2006.01)

CPC (source: EA EP US)

**E06B 9/0638** (2013.01 - EP); **E06B 9/13** (2013.01 - EA EP US); **E06B 9/68** (2013.01 - EA EP US); **E06B 9/84** (2013.01 - EA EP US); **E06B 2009/0684** (2013.01 - EP); **E06B 2009/6845** (2013.01 - EA EP US)

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 2018109191 A1 20180621**; CA 3047056 A1 20180621; CA 3047056 C 20210105; CN 110337525 A 20191015; DE 102016225079 A1 20180621; EA 036915 B1 20210114; EA 201991390 A1 20191129; EP 3555409 A1 20191023; EP 3555409 B1 20230222; JP 2020514577 A 20200521; JP 7021220 B2 20220216; PL 3555409 T3 20230626; US 11499369 B2 20221115; US 2019360267 A1 20191128

DOCDB simple family (application)

**EP 2017083109 W 20171215**; CA 3047056 A 20171215; CN 201780078097 A 20171215; DE 102016225079 A 20161215; EA 201991390 A 20171215; EP 17835467 A 20171215; JP 2019531900 A 20171215; PL 17835467 T 20171215; US 201716470141 A 20171215