

Title (en)
ELEVATOR DOOR DEVICE

Title (de)
AUFZUGSTÜRVORRICHTUNG

Title (fr)
DISPOSITIF DE PORTE D'ASCENSEUR

Publication
EP 2426076 A4 20170118 (EN)

Application
EP 09843994 A 20090428

Priority
JP 2009058391 W 20090428

Abstract (en)
[origin: EP2426076A1] A car engaging apparatus has: a fixed blade that is fixed to a car door; a pivoting link that is pivotable around a link supporting shaft that is disposed on the car door; and a movable blade that is disposed on the pivoting link. A movable blade is displaced in response to the pivoting of the pivoting link between a gripping position in which spacing from a fixed blade is a predetermined spacing in a direction of movement of the car door, and a releasing position that is further away from the fixed blade than the gripping position. A gripping driving apparatus includes a pivoting lever that is pivotable around a lever supporting shaft that is disposed on the car door, a coupling member that makes the pivoting lever and the pivoting link operate interdependently with each other, and a cam that is fixed relative to the car doorway, and that pivots the pivoting lever that is moved together with the car door. The pivoting link and the pivoting lever operate interdependently with each other such that a direction of pivoting of the pivoting link around the link supporting shaft and a direction of pivoting of the pivoting lever around the lever supporting shaft are identical directions.

IPC 8 full level
B66B 13/12 (2006.01)

CPC (source: EP KR)
B66B 13/12 (2013.01 - EP KR)

Citation (search report)

- [XA] JP S5817089 A 19830201 - MITSUBISHI ELECTRIC CORP
- [XY] JP S57203682 A 19821214 - HITACHI LTD
- [IA] EP 0410774 A2 19910130 - OTIS ELEVATOR CO [US]
- [IAY] JP 2008230844 A 20081002 - MITSUBISHI ELECTRIC CORP
- See references of WO 2010125650A1

Cited by
US10207900B2; US11046557B2; US11040858B2; US9845224B2; WO2015049423A1; US11034548B2; US11655122B2; US10526172B2; US11760604B1; US11040852B2; US11155444B2; US11603290B2

Designated contracting state (EPC)
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 SE SI SK TR

DOCDB simple family (publication)
EP 2426076 A1 20120307; EP 2426076 A4 20170118; EP 2426076 B1 20181010; CN 102414113 A 20120411; CN 102414113 B 20140611; JP 5289562 B2 20130911; JP WO2010125650 A1 20121025; KR 101274383 B1 20130617; KR 20110103451 A 20110920; WO 2010125650 A1 20101104

DOCDB simple family (application)
EP 09843994 A 20090428; CN 200980158865 A 20090428; JP 2009058391 W 20090428; JP 2011511218 A 20090428; KR 20117018105 A 20090428