

Title (en)
DOOR DEVICE FOR ELEVATOR

Title (de)
TÜRENVORRICHTUNG FÜR AUFZÜGE

Title (fr)
DISPOSITIF DE PORTE POUR ASCENSEUR

Publication
EP 2657174 A4 20160601 (EN)

Application
EP 10861191 A 20101224

Priority
JP 2010073397 W 20101224

Abstract (en)
[origin: EP2657174A1] There is provided a door operator of an elevator that can restrain the displacement of a door properly even when an external force is applied to the door on account of wind pressure or the like. The door operator includes a hanger roller and a stabilizing roller that are provided rotatably on a door hanger, a support body for supporting a door rail, and a displacement restraining device provided on the door hanger. The displacement restraining device is provided to restrain the door from being displaced to the axial direction of the hanger roller. The displacement restraining device includes a first guide roller that rotates while being in contact with one side surface of a part of the support body along with the opening/closing movement of the door and a second guide roller that rotates while being in contact with the other side surface of the part of the support body along with the opening/closing movement of the door.

IPC 8 full level
B66B 13/30 (2006.01)

CPC (source: EP KR)
B66B 13/30 (2013.01 - EP KR); **B66B 13/303** (2013.01 - EP)

Citation (search report)

- [X] JP H03264486 A 19911125 - MITSUBISHI ELECTRIC CORP
- [XYI] KR 100257351 B1 20000515 - LG IND SYSTEMS CO LTD [KR]
- [Y] KR 100271017 B1 20001101 - LG OTIS ELEVATOR CO [KR]
- [A] JP S507644 U 19750127
- See references of WO 2012086069A1

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)
EP 2657174 A1 20131030; EP 2657174 A4 20160601; EP 2657174 B1 20170329; CN 103282301 A 20130904; CN 103282301 B 20150429; JP 5569595 B2 20140813; JP WO2012086069 A1 20140522; KR 101541628 B1 20150803; KR 20130125794 A 20131119; WO 2012086069 A1 20120628

DOCDB simple family (application)
EP 10861191 A 20101224; CN 201080070849 A 20101224; JP 2010073397 W 20101224; JP 2012549554 A 20101224; KR 20137018663 A 20101224