

Title (en)
SAFETY DEVICE FOR ELEVATOR

Title (de)
AUFZUGSSICHERHEITSVORRICHTUNG

Title (fr)
DISPOSITIF DE SÉCURITÉ POUR ASCENSEUR

Publication
EP 2112116 B1 20170830 (EN)

Application
EP 07714231 A 20070215

Priority
JP 2007052701 W 20070215

Abstract (en)
[origin: EP2112116A1] In an elevator safety apparatus, a bearing rail stopper and a pivoting rail stopper are disposed in a housing that is displaceable horizontally relative to a car. A guide rail that guides the car is disposed between the bearing rail stopper and the pivoting rail stopper. A distance between the bearing rail stopper and the pivoting rail stopper is reduced by vertical pivoting of the pivoting rail stopper. The housing can be displaced by a displacement driving mechanism in a direction in which the pivoting rail stopper contacts or separates from the guide rail. The guide rail can be gripped between the pivoting rail stopper and the bearing rail stopper by the pivoting rail stopper being pivoted in a direction that corresponds to a direction of movement of the car while contacting the guide rail.

IPC 8 full level
B66B 5/20 (2006.01); **B66B 5/04** (2006.01)

CPC (source: EP KR)
B66B 5/04 (2013.01 - EP); **B66B 5/18** (2013.01 - EP); **B66B 5/20** (2013.01 - EP KR)

Cited by
WO2013083430A1; WO2013139616A1; CN104837758A; CN102791603A; RU2718706C1; RU2607906C2; CN104936882A; RU2643078C2; US2012152663A1; US9169104B2; US9745171B2; US8991561B2; WO2014090689A1; WO2014090688A1; WO2011113753A3; US9663326B2; US9708159B2; US9919899B2; US9457990B2; US9919898B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2112116 A1 20091028; EP 2112116 A4 20120328; EP 2112116 B1 20170830; CN 101605713 A 20091216; CN 101605713 B 20111207; JP 5112342 B2 20130109; JP WO2008099487 A1 20100527; KR 101033343 B1 20110509; KR 20100004956 A 20100113; WO 2008099487 A1 20080821

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