

Title (en)
SAFETY DEVICE FOR ELEVATOR

Title (de)
AUFZUGSSICHERHEITSVORRICHTUNG

Title (fr)
DISPOSITIF DE SÉCURITÉ POUR ASCENSEUR

Publication
EP 2194014 B1 20160706 (EN)

Application
EP 07828746 A 20070928

Priority
JP 2007069005 W 20070928

Abstract (en)
[origin: EP2194014A1] In a safety device for an elevator, a receiving brake member and a rotatable brake member are disposed in a housing displaceable horizontally with respect to a guide rail. The guide rail is arranged between the receiving brake member and the rotatable brake member. The rotatable brake member is rotatable vertically about a rotating shaft disposed in the housing. The guide rail is grasped between the receiving brake member and the rotatable brake member by vertical rotation about the rotating shaft. The rotatable brake member is provided with a rolling contact portion whose distance from the receiving brake member is continuously smaller even when the rotatable brake member rotates in anyone of upper and lower directions. The rolling contact portion is configured along an outer peripheral surface of one cylinder having an axial line eccentric to a center line of the rotating shaft.

IPC 8 full level
B66B 5/22 (2006.01); **B66B 5/20** (2006.01)

CPC (source: EP)
B66B 5/20 (2013.01); **B66B 5/22** (2013.01)

Citation (examination)
DE 2943660 B1 19810108 - SCHLOSSER GERHARD ING

Cited by
US9828213B2; FR3022230A1; US2013081908A1; CN103648953A; US9457989B2; WO2013045358A1; US9120643B2

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2194014 A1 20100609; EP 2194014 A4 20131204; EP 2194014 B1 20160706; CN 101808926 A 20100818; CN 101808926 B 20130605; JP 5414526 B2 20140212; JP WO2009040934 A1 20110113; KR 101124931 B1 20120327; KR 20100040925 A 20100421; WO 2009040934 A1 20090402

DOCDB simple family (application)
EP 07828746 A 20070928; CN 200780100819 A 20070928; JP 2007069005 W 20070928; JP 2009534120 A 20070928; KR 20107003106 A 20070928