

Title (en)
ELEVATOR SYSTEM

Title (de)
AUFZUGSYSTEM

Title (fr)
SYSTÈME D'ASCENSEUR

Publication
EP 2583928 B1 20210224 (EN)

Application
EP 10853184 A 20100618

Priority
JP 2010004074 W 20100618

Abstract (en)
[origin: EP2583928A1] In order to reliably detect open-door movement at a shorter movement distance (at an earlier point in time), thereby enhancing safety, and maintaining operational efficiency, an elevator system equipped with an unintended car movement protection, which assesses open-door movement and stops the car if the car moves up or down relative to the landing floor with the car doors and/or landing doors being opened, and is further provided with: a car door switch (43) that detects when car doors are opened and a landing door switch (41) that detects when landing doors are opened, a detection device (21) that detects the velocity and movement distance of the car, a position sensor (30) that detects the reference floor position at each storey, and a safety controller (1) that determines an open-door movement abnormality on the basis of the results detected by the detection device (21) and the position sensor (30), using a car-speed abnormality determination threshold value that is defined to the car position.

IPC 8 full level
B66B 5/00 (2006.01)

CPC (source: EP)
B66B 5/0031 (2013.01)

Citation (examination)
• JP H08225269 A 19960903 - INVENTIO AG
• JP H01256475 A 19891012 - TOSHIBA CORP
• JP S56127582 A 19811006 - WESTINGHOUSE ELECTRIC CORP
• JP 2008285265 A 20081127 - TOSHIBA ELEVATOR CO LTD

Cited by
CN103964272A; CN105173954A; EP3444214A1; CN114341040A; EP3878788A1; EP3366626A1; CN108455396A; US11014781B2; US10569992B2; US10906775B2; EP3744672A1; WO2017028919A1; WO2022058276A1; EP3366626B1

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 SE SI SK SM TR

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EP 2583928 A1 20130424; EP 2583928 A4 20171108; EP 2583928 B1 20210224; CN 102947210 A 20130227; CN 102947210 B 20150506; JP 5516729 B2 20140611; JP WO2011158301 A1 20130815; SG 186731 A1 20130228; WO 2011158301 A1 20111222

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