

Title (en)
SAFETY CIRCUIT IN A LIFT ASSEMBLY

Title (de)
SICHERHEITSKREIS IN EINER AUFZUGSANLAGE

Title (fr)
CIRCUIT DE SÉCURITÉ DANS UNE INSTALLATION D'ASCENSEUR

Publication
EP 2493802 B1 20140402 (DE)

Application
EP 10771084 A 20101020

Priority
• EP 09174017 A 20091026
• EP 2010065823 W 20101020
• EP 10771084 A 20101020

Abstract (en)
[origin: WO2011054674A1] The invention relates to a safety circuit (200) in an elevator system (100), comprising at least one series connection (43) of safety-relevant contacts (20a-20d, 26), which are closed during trouble-free operation of the elevator system (100), wherein in the case of certain operating conditions in which at least one contact (20a-20d, 26) is opened, said least one contact (20a-20d, 26) can be bridged by means of semiconductor switches (36a, 36b), and wherein the semiconductor switches (36a, 36b) can be controlled by means of at least one processor (34c, 34d) and monitored by means of at least one monitoring circuit (37a, 37b) for short circuits, and further comprising at least one electromechanical relay circuit (42a), having relay contacts (31c, 31d) connected in series with the contacts (20a-20d, 26) of the bridged series connection (43), wherein the relay circuit (42a) can be controlled by means of the at least one processor (34c, 34d) and the bridgable series connection (43) can be interrupted by means of the relay contacts (31c, 31d) in the case of short-circuiting of the semiconductor switches (36a, 36b).

IPC 8 full level
B66B 5/00 (2006.01); **B66B 13/22** (2006.01)

CPC (source: EP KR US)
B66B 5/00 (2013.01 - KR); **B66B 5/0031** (2013.01 - EP US); **B66B 13/22** (2013.01 - EP KR US)

Cited by
WO2021121920A1; WO2015086271A1

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)
WO 2011054674 A1 20110512; AU 2010314253 A1 20120517; AU 2010314253 B2 20160804; BR 112012009140 A2 20160830; CA 2775635 A1 20110512; CA 2775635 C 20170912; CN 102596780 A 20120718; CN 102596780 B 20140806; EP 2493802 A1 20120905; EP 2493802 B1 20140402; ES 2477564 T3 20140717; HK 1171003 A1 20130315; JP 2013508245 A 20130307; JP 5755233 B2 20150729; KR 101666251 B1 20161013; KR 20120092116 A 20120820; MX 2012003015 A 20120419; MX 340867 B 20160728; MY 166790 A 20180723; NZ 599051 A 20140228; RU 2012121879 A 20131210; RU 2543476 C2 20150227; US 2012186914 A1 20120726; US 9061863 B2 20150623

DOCDB simple family (application)
EP 2010065823 W 20101020; AU 2010314253 A 20101020; BR 112012009140 A 20101020; CA 2775635 A 20101020; CN 201080048359 A 20101020; EP 10771084 A 20101020; ES 10771084 T 20101020; HK 12111879 A 20121121; JP 2012535748 A 20101020; KR 20127010646 A 20101020; MX 2012003015 A 20101020; MY PI2012700133 A 20101020; NZ 59905110 A 20101020; RU 2012121879 A 20101020; US 201013499423 A 20101020