

Title (en)
ELECTRONIC CIRCUIT FOR SAFELY CLOSING A MOTOR-DRIVEN DOOR OF A RAIL VEHICLE

Title (de)
ELEKTRONISCHE SCHALTUNG ZUR SICHEREN SCHLIEßUNG EINER MOTORISCH ANGETRIEBENEN TÜR EINES SCHIENENFAHRZEUGS

Title (fr)
CIRCUIT ÉLECTRONIQUE DE FERMETURE SÉCURISÉE D'UNE PORTE MOTORISÉE DE VÉHICULE FERROVIAIRE

Publication
EP 3146624 A1 20170329 (DE)

Application
EP 15724617 A 20150521

Priority
• AT 503662014 A 20140522
• EP 2015061296 W 20150521

Abstract (en)
[origin: WO2015177295A1] The invention relates to an electronic circuit (1,1a..1i) for a motor-driven door (5) of a rail vehicle (10), said electronic circuit having a series circuit of a first non-linear element (D1) and a first controllable switch (S1, T1) between the motor terminals (A1, A2). The first non-linear element (D1) is poled such that the resistance thereof to a current generated by the drive motor (M) during a closing movement of the door (5) is greater than during an opening movement. If a supply voltage (U1) for the door (5) is present, the resistance of the first switch (S1, T1) is effected relative to the resistance when said supply voltage is absent. The invention further relates to a door module (3) for a rail vehicle (10) having such an electronic circuit (1, 1a..1i), to a rail vehicle (10) for such a door module (3), and to a use of the electronic circuit (1, 1a..1i).

IPC 8 full level
H02P 3/12 (2006.01); **B61D 19/02** (2006.01); **E05F 15/70** (2015.01); **H02P 7/08** (2006.01)

CPC (source: AT CN EP RU US)
B61D 19/02 (2013.01 - RU US); **E05F 5/02** (2013.01 - US); **E05F 15/40** (2015.01 - AT CN EP US); **E05F 15/60** (2015.01 - RU);
E05F 15/603 (2015.01 - AT); **E05F 15/659** (2015.01 - US); **E05F 15/70** (2015.01 - RU); **H02M 3/02** (2013.01 - AT);
H02P 3/12 (2013.01 - AT CN EP RU US); **H02P 5/68** (2013.01 - AT); **H02P 7/08** (2013.01 - AT CN EP US); **B61D 19/00** (2013.01 - AT);
E05Y 2201/25 (2013.01 - US); **E05Y 2201/412** (2013.01 - AT CN EP US); **E05Y 2201/434** (2013.01 - US); **E05Y 2400/31** (2013.01 - US);
E05Y 2400/45 (2013.01 - US); **E05Y 2400/53** (2013.01 - AT CN EP US); **E05Y 2800/748** (2013.01 - AT CN EP US);
E05Y 2900/51 (2013.01 - AT CN EP US)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015177295 A1 20151126; AT 515888 A2 20151215; AT 515888 A3 20190115; AU 2015261848 A1 20161208;
AU 2015261848 B2 20190314; CA 2949853 A1 20151126; CN 106537756 A 20170322; EP 3146624 A1 20170329; JP 2017517242 A 20170622;
JP 6297212 B2 20180320; RU 2016150185 A 20180625; RU 2016150185 A3 20180625; RU 2658865 C2 20180625;
US 2017191298 A1 20170706

DOCDB simple family (application)
EP 2015061296 W 20150521; AT 503662014 A 20140522; AU 2015261848 A 20150521; CA 2949853 A 20150521;
CN 201580039700 A 20150521; EP 15724617 A 20150521; JP 2017513339 A 20150521; RU 2016150185 A 20150521;
US 201515313256 A 20150521