Title (en)
SWITCHING UNIT FOR SWITCHING HIGH DC VOLTAGES

Title (de)
SCHALTEINHEIT ZUM SCHALTEN VON HOHEN GLEICHSPANNUNGEN

Title (fr)
UNITÉ DE COMMUTATION DESTINÉE À COMMUTER DES TENSIONS CONTINUES ÉLEVÉES

Publication
EP 2502251 B1 20130130 (DE)

Application
EP 11790724 A 20111109

Priority
• DE 202011001891 U 20110125
• DE 102011015449 A 20110330
• EP 2011005616 W 20111109

Abstract (en)
[origin: CA2785605A1] The invention relates to a switching unit (1) for switching high DC voltages, in particular for a galvanic DC interruption between a DC source (2) and an electrical device (3). The switching unit (1) comprises two connections (11, 12), which protrude out of a housing (10) and are coupled electrically conductively via a conductor path (22), a contact system (7) arranged between the first and the second connection (11, 12) and a disconnecting apparatus (27, 27') which can be triggered by means of a thermal fuse (8). The thermal fuse (8) comprises a fusing point (19) arranged in the conductor path (22), said fusing point being connected firstly to the contact system (7) and secondly to the first connection (12), via a movable conductor section (20). The disconnecting apparatus (27, 27') is triggered and the connection between the conductor section (20) and the contact system (7) at the fusing point (19) is disconnected when, as a result of an arc (26) produced when the contact system (7) opens, the fusing temperature of the fusing point (19) is reached or is exceeded.

IPC 8 full level
H01H 83/10 (2006.01); **H01H 9/32** (2006.01); **H01H 37/76** (2006.01); **H01H 71/12** (2006.01)

CPC (source: EP KR US)
H01H 9/32 (2013.01 - EP KR US); **H01H 37/76** (2013.01 - KR); **H01H 37/761** (2013.01 - EP US); **H01H 71/12** (2013.01 - KR);
H01H 83/10 (2013.01 - EP KR US); H01H 71/122 (2013.01 - 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

DOCDB simple family (publication)
DE 102011015449 A1 20120726; **DE 102011015449 B4 20140925**; AU 2011338139 A1 20120809; AU 2011338139 B2 20140814;
CA 2785605 A1 20120802; CA 2785605 C 20170425; CN 102725812 A 20121010; CN 102725812 B 20150729; DE 202011110186 U1 20130208;
EP 2502251 A1 20120926; EP 2502251 B1 20130130; ES 2403489 T3 20130520; HR P20130376 T1 20130531; KR 101521074 B1 20150616;
KR 20140008231 A 20140121; PL 2502251 T3 20130731; PT 2502251 E 20130506; SG 182295 A1 20120830; US 2012268233 A1 20121025;
US 8766760 B2 20140701; WO 2012100793 A1 20120802

DOCDB simple family (application)
DE 102011015449 A 20110330; AU 2011338139 A 20111109; CA 2785605 A 20111109; CN 201180005134 A 20111109;
DE 202011110186 U 20111109; EP 11790724 A 20111109; EP 2011005616 W 20111109; ES 11790724 T 20111109;
HR P20130376 T 20130429; KR 20127017023 A 20111109; PL 11790724 T 20111109; PT 11790724 T 20111109; SG 2012048427 A 20111109;
US 201213537918 A 20120629