

Title (en)
PROTECTION SWITCH

Title (de)
SCHUTZSCHALTER

Title (fr)
DISJONCTEUR DE PROTECTION

Publication
EP 2030215 B1 20120725 (DE)

Application
EP 06805853 A 20060925

Priority
• EP 2006009294 W 20060925
• DE 102006027140 A 20060612

Abstract (en)
[origin: CA2656061A1] A protection switch (1) is disclosed, which is particularly suitable where rapid quenching of electrical arcing of the switch is concerned. The protection switch (1) comprises at least one single-pole protection switch module (2). The protection switch module (2) comprises a housing (3), a movable contact (84) mounted on a switching arm (43), which can be pivoted against a fixed contact (85) between a closed position and an open position, and a quenching device (41) for quenching electrical arcing of the switch. The quenching device (41) comprises a quenching chamber (63) with an inlet (102) and an outlet (106) for the arc, a first running rail (65), which connects the fixed contact (85) with a first side wall of the quenching chamber (63), and a second running rail (66) which connects a stopping surface (97), against which the movable contact (84) abuts in the open position of the switching arm (43), to a second side wall of the quenching chamber (63). There is also a separation strip (107), extending essentially from side wall to side wall, fastened at the outlet (106) of the quenching chamber (63).

IPC 8 full level
H01H 71/52 (2006.01); **H01H 9/34** (2006.01); **H01H 9/46** (2006.01); **H01H 71/08** (2006.01); **H01H 71/10** (2006.01); **H01H 71/24** (2006.01); **H01H 71/74** (2006.01); **H01H 73/18** (2006.01)

CPC (source: EP US)
H01H 9/34 (2013.01 - EP US); **H01H 9/342** (2013.01 - EP US); **H01H 9/46** (2013.01 - EP US); **H01H 71/082** (2013.01 - EP US); **H01H 71/1018** (2013.01 - EP US); **H01H 71/1027** (2013.01 - EP US); **H01H 71/2409** (2013.01 - EP US); **H01H 71/2454** (2013.01 - EP US); **H01H 71/526** (2013.01 - EP US); **H01H 71/7427** (2013.01 - EP US); **H01H 73/18** (2013.01 - EP US); **H01H 2009/348** (2013.01 - EP US); **H01H 2071/086** (2013.01 - EP US)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102006027140 A1 20071213; AU 2006344590 A1 20071221; AU 2006344590 B2 20100812; AU 2006344591 A1 20071221; AU 2006344591 B2 20100603; AU 2006344592 A1 20071221; AU 2006344592 B2 20101111; CA 2653649 A1 20071221; CA 2653649 C 20140311; CA 2654002 A1 20071221; CA 2654002 C 20150310; CA 2656061 A1 20071221; CA 2656061 C 20140114; CN 101461021 A 20090617; CN 101461021 B 20110831; CN 101461022 A 20090617; CN 101461022 B 20110803; CN 101461023 A 20090617; CN 101461023 B 20110831; DE 202006021064 U1 20120703; DE 202006021095 U1 20120704; DE 202006021096 U1 20120703; EP 2030213 A1 20090304; EP 2030213 B1 20120725; EP 2030215 A1 20090304; EP 2030215 B1 20120725; EP 2030216 A1 20090304; EP 2030216 B1 20120725; ES 2391293 T3 20121123; ES 2391294 T3 20121123; ES 2391295 T3 20121123; JP 2009540514 A 20091119; JP 2009540515 A 20091119; JP 2009540516 A 20091119; JP 4827966 B2 20111130; JP 4827967 B2 20111130; JP 5244791 B2 20130724; PL 2030213 T3 20121231; PL 2030215 T3 20121231; PL 2030216 T3 20121231; US 2009145882 A1 20090611; US 2009146766 A1 20090611; US 2009160586 A1 20090625; US 7834290 B2 20101116; US 7978033 B2 20110712; US 8098119 B2 20120117; WO 2007144015 A1 20071221; WO 2007144016 A1 20071221; WO 2007144017 A1 20071221

DOCDB simple family (application)
DE 102006027140 A 20060612; AU 2006344590 A 20060925; AU 2006344591 A 20060925; AU 2006344592 A 20060925; CA 2653649 A 20060925; CA 2654002 A 20060925; CA 2656061 A 20060925; CN 200680054944 A 20060925; CN 200680054946 A 20060925; CN 200680054958 A 20060925; DE 202006021064 U 20060925; DE 202006021095 U 20060925; DE 202006021096 U 20060925; EP 06805853 A 20060925; EP 06805854 A 20060925; EP 06805855 A 20060925; EP 2006009294 W 20060925; EP 2006009295 W 20060925; EP 2006009296 W 20060925; ES 06805853 T 20060925; ES 06805854 T 20060925; ES 06805855 T 20060925; JP 2009514645 A 20060925; JP 2009514646 A 20060925; JP 2009514647 A 20060925; PL 06805853 T 20060925; PL 06805854 T 20060925; PL 06805855 T 20060925; US 33355308 A 20081212; US 33355808 A 20081212; US 33390108 A 20081212