

Title (en)
High voltage circuit breaker with improved interrupting capacity

Title (de)
Hochspannungsschalter mit verbesserter Schaltleistung

Title (fr)
Disjoncteur à haute tension avec pouvoir de coupure améliorée

Publication
EP 1768150 A1 20070328 (DE)

Application
EP 05405556 A 20050926

Priority
EP 05405556 A 20050926

Abstract (en)
The method involves flowing switching gas from an arc-discharging zone to an exhaust area filled with cold gas (111). The switching gas is split up into two partial gas flows (11a, 11b). A part of the cold gas is immediately stored in the exhaust area, and one partial flow is guided to the cold gas and flowed into a switching chamber (2). The cold gas is displaced from the exhaust area with the help of another partial flow, where the former partial flow and the cold gas are mixed with one another before flowing into a switching chamber housing (3). An independent claim is also included for an electrical switching circuit for an electrical power grid.

IPC 8 full level
H01H 33/74 (2006.01)

CPC (source: EP KR US)
H01H 33/04 (2013.01 - KR); **H01H 33/57** (2013.01 - KR); **H01H 33/664** (2013.01 - KR); **H01H 33/74** (2013.01 - EP US);
H01H 71/02 (2013.01 - KR); **H01H 2033/888** (2013.01 - EP US)

Citation (search report)
• [XY] US 4471187 A 19840911 - STURZENEGGER CHRISTIAN [CH], et al
• [YD] EP 1403891 A1 20040331 - ABB SCHWEIZ AG [CH]
• [Y] DE 2642693 A1 19780323 - SIEMENS AG
• [YD] EP 1444713 A1 20040811 - SIEMENS AG [DE]
• [AD] DE 10221580 B3 20040122 - SIEMENS AG [DE]

Cited by
RU2608173C2; CN109564836A; EP2930732A1; EP2063445A1; FR2924267A1; CN106030744A; RU2706233C2; DE102012202406A1; RU186667U1; EP2120244A1; US9251981B2; US9076611B2; US10685798B2; US10199189B2; US9899167B2; WO2013045235A1; WO2013045234A1; WO2013045233A1; WO2014187632A1; WO2011067122A1; WO2010091944A1; WO2015097143A1; WO2013120732A1; US9514903B2; US8530774B2; US8633413B2; US9524836B2; EP2256776A1; EP1835520A1; EP2593954B1; EP2593954B2

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

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1768150 A1 20070328; EP 1768150 B1 20100217; AT E458259 T1 20100315; CN 1941243 A 20070404; CN 1941243 B 20120711; DE 502005009041 D1 20100401; JP 2007095680 A 20070412; KR 101320770 B1 20131021; KR 20070034972 A 20070329; US 2007068904 A1 20070329; US 8389886 B2 20130305

DOCDB simple family (application)
EP 05405556 A 20050926; AT 05405556 T 20050926; CN 200610139623 A 20060926; DE 502005009041 T 20050926; JP 2006255278 A 20060921; KR 20060093655 A 20060926; US 52061906 A 20060914