

Title (en)
Switch for direct and alternating current operation

Title (de)
Schütz für Gleichstrom- und Wechselstrombetrieb

Title (fr)
Protection pour fonctionnement à courant continu et courant alternatif

Publication
EP 1884969 A3 20080507 (DE)

Application
EP 07012610 A 20070627

Priority
DE 102006035844 A 20060801

Abstract (en)
[origin: EP1884969A2] The switch (1) has two sets of contact points (2, 3) comprising fixed contacts (4, 5) and movable contacts (6, 7), and permanent magnets (13, 14) arranged adjacent to the respective points for generation of permanently magnetized blowing fields. Coils (17, 18) are arranged adjacent to the contact points to generate electromagnetic blowing fields and to blow electric arcs (15, 16) in an extinguishing device (24) existing during opening of the points. The movable contacts are arranged on a contact bridge (8). The magnets assigned to the respective points are polarized in opposite directions.

IPC 8 full level
H01H 9/44 (2006.01); **H01H 9/46** (2006.01)

CPC (source: EP KR US)
H01H 9/34 (2013.01 - EP US); **H01H 9/44** (2013.01 - EP US); **H01H 9/443** (2013.01 - EP US); **H01H 33/12** (2013.01 - KR); **H01H 33/14** (2013.01 - KR)

Citation (search report)

- [X] DE 1962559 U 19670622 - SIEMENS AG [DE]
- [X] CH 382256 A 19640930 - SCHALTBAU GMBH [DE]
- [X] DE 2329730 A1 19740117 - ELEKTROTEHNITSCHKI INST PODUZE
- [A] DE 958401 C 19570221 - SIEMENS AG
- [A] DE 7835288 U1 19790301

Cited by
EP2393094A1; WO2011154380A1; EP3293748A1; CN110462777A; RU2713460C1; US9224559B2; US11037745B2; WO2012010227A1; WO2018046695A1; US8921728B2

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1884969 A2 20080206; EP 1884969 A3 20080507; EP 1884969 B1 20150107; CN 100570787 C 20091216; CN 101118817 A 20080206; DE 102006035844 A1 20080207; DE 102006035844 B4 20080619; ES 2528481 T3 20150210; JP 2008078120 A 20080403; JP 5041311 B2 20121003; KR 101312711 B1 20131001; KR 20080012214 A 20080211; RU 2007129883 A 20090210; RU 2417475 C2 20110427; US 2008030289 A1 20080207; US 7417520 B2 20080826; ZA 200706409 B 20080528

DOCDB simple family (application)
EP 07012610 A 20070627; CN 200710129881 A 20070731; DE 102006035844 A 20060801; ES 07012610 T 20070627; JP 2007195452 A 20070727; KR 20070076849 A 20070731; RU 2007129883 A 20070726; US 88224407 A 20070731; ZA 200706409 A 20070801