

Title (en)
Circuit breaker using arc contact

Title (de)
Trennschalter unter Verwendung eines Kontaktbogens

Title (fr)
Disjoncteur utilisant un contact en arc

Publication
EP 1973133 A3 20091111 (EN)

Application
EP 07254459 A 20071114

Priority
• KR 20070028206 A 20070322
• EP 07254282 A 20071030
• EP 07254459 A 20071114

Abstract (en)
[origin: EP1973133A2] A circuit breaker is disclosed, which has a resistor interposed in an arc contact to make a small breaking current flow, to facilitate breaking a fault current and to facilitate insulation recovery after breaking the fault current so that a breaking performance can be ultimately enhanced. A cylinder is filled with an arc-extinguishing gas. A fixed main contact is formed in the cylinder. A movable main contact is connected to the fixed main contact to form a first current path and then is separated from the fixed main contact for breaking a fault current at the time of detecting the fault current. A fixed arc contact is formed in the cylinder and has a resistor interposed between a body and a tip of the fixed ac contact for reducing the fault current. A movable arc contact is connected to the fixed arc contact to form a second current path so that the movable arc contact is in contact with the resistor of the fixed arc contact and then is separated from the fixed arc contact for reducing the fault current at the time of detecting the fault current.

IPC 8 full level
H01H 33/16 (2006.01)

CPC (source: EP)
H01H 33/168 (2013.01); **H01H 33/164** (2013.01)

Citation (search report)
• [YX] DE 931476 C 19550808 - SACHSENWERK LICHT & KRAFT AG
• [Y] US 4553008 A 19851112 - VEVERKA EDWARD F [US], et al
• [XY] FR 1305748 A 19621005 - WESTINGHOUSE ELECTRIC CORP
• [XY] DE 822690 C 19511126 - THEODOR CONRAD
• [XY] US 2365132 A 19441212 - FOSTER AMER DONALD, et al
• [A] EP 0359224 A1 19900321 - ALSTHOM GEC [FR]
• [A] US 4623767 A 19861118 - SCHULZ WINFRIED [DE]

Cited by
EP2251885A1; CN106842015A; CN107567647A; CN103117180A; FR2944911A1; CN106298351A; FR2945374A1

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 1973133 A2 20080924; EP 1973133 A3 20091111

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EP 07254459 A 20071114