

Title (en)
Circuit breaker

Title (de)
Schutzschalter

Title (fr)
Disjoncteur

Publication
EP 1863056 A1 20071205 (EN)

Application
EP 07010778 A 20070531

Priority
JP 2006154776 A 20060602

Abstract (en)
A circuit breaker includes a stationary contactor (5), a movable contactor (2) opening/closing with respect to the stationary contactor (5), and a pair of magnetic bodies (10) disposed on the both sides of a switching space (53ps) accommodating these contactors (2,5) and permitting a switching action of the movable contactor (2) so as to move in a direction to come closer relatively with respect to each other. When an interruption current causing: an interruption action of the movable contactor (2) reaches or exceeds a specific value, the magnetic bodies (10) are moved in the direction to come closer relatively with respect to each other by an electromagnetic attraction force acting between the magnetic bodies (10) to narrow the switching space (53ps) within the limits of permitting the switching action of the movable contactor (2), and when the electromagnetic attraction force becomes smaller as the interruption current is made smaller by a current limiting action, the magnetic bodies (10) return to the original positions.

IPC 8 full level
H01H 73/18 (2006.01)

CPC (source: EP)
H01H 71/0235 (2013.01); **H01H 73/18** (2013.01); **H01H 9/443** (2013.01); **H01H 11/0006** (2013.01); **H01H 71/43** (2013.01)

Citation (search report)
[AD] JP 2002008508 A 20020111 - MITSUBISHI ELECTRIC CORP

Cited by
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DE FR IT

Designated extension state (EPC)
AL BA HR MK YU

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EP 1863056 A1 20071205; **EP 1863056 B1 20090408**; CN 101083187 A 20071205; CN 101083187 B 20120104;
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