

Title (en)

HIGH PERFORMANCE ELECTRIC CIRCUIT BREAKER

Title (de)

HOCHLEISTUNGSSCHUTZSCHALTER

Title (fr)

DISJONCTEUR À HAUTE PERFORMANCE

Publication

**EP 2377134 B1 20141112 (EN)**

Application

**EP 10706763 A 20100112**

Priority

- IT 2010000004 W 20100112
- IT RM20090009 A 20090112

Abstract (en)

[origin: WO2010079524A1] A high performance circuit breaker wherein an electric current flows through the first (22) and second (32) contact carrying support. The terminal (24) is crossed by electric current (I1) in a set orientation, whereas the arms (28) are crossed by electric current (I2) having a substantially opposed orientation in an essentially parallel direction, with respect to current (h). The interaction between the currents (I1 2) generate a repulsive electromagnetic force F which is able to distance the arms from the terminal, creating additional contact pressure between the contacts. Even though the second contact carrying support is crossed by electric current (b) having a substantially opposed orientation in an essentially parallel direction with respect to current (I2), generation of a further electromagnetic force, which would tend to separate the arms from the second contact carrying support, unwanted electromagnetic repulsion between the contacts is avoided by the first (50) and second (70) ferromagnetic shield.

IPC 8 full level

**H01H 1/54** (2006.01); **H01H 1/22** (2006.01); **H01H 73/04** (2006.01)

CPC (source: EP)

**H01H 1/54** (2013.01); **H01H 1/226** (2013.01); **H01H 73/04** (2013.01); **H01H 77/10** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010079524 A1 20100715**; CN 102272873 A 20111207; CN 102272873 B 20140305; CO 6341679 A2 20111121; EP 2377134 A1 20111019; EP 2377134 B1 20141112; IT 1392729 B1 20120316; IT RM20090009 A1 20100713; MX 2011006923 A 20110729; RU 2011133817 A 20130220; RU 2486621 C2 20130627

DOCDB simple family (application)

**IT 2010000004 W 20100112**; CN 201080004648 A 20100112; CO 11086671 A 20110712; EP 10706763 A 20100112; IT RM20090009 A 20090112; MX 2011006923 A 20100112; RU 2011133817 A 20100112