Title (en)

CIRCUIT BREAKER

Title (de)

SCHUTZSCHALTER

Title (fr)

COUPE CIRCUIT

Publication

EP 2605265 A1 20130619 (EN)

Application

EP 11816196 A 20110608

Priority

- JP 2010180988 A 20100812
- JP 2011003241 W 20110608

Abstract (en)

To provide a circuit breaker that is capable of appropriately moving an arc, which is generated between contact points, toward an arc-extinguishing device, even in a relatively small current region, without enlarging equipment having the circuit breaker. The circuit breaker includes, in each of poles, a pair of front/rear fixed contacts (2, 3) disposed facing each other, a movable contact (4) formed as a bridge between the fixed contacts (2, 3), and a pair of front/rear magnetic drive yokes (10) made from permanent magnets and disposed so as to hold side surface parts on both ends of the movable contact (4) therebetween. In a closed state, the movable contact (4) closes a current feed path of each pole by being pressed against the fixed contacts (2, 3) by a contact spring (5). In an open state, the movable contact (4) opens the current feed paths by being pressed back toward the contact spring (5) by an opening/closing mechanism to separate from the fixed contacts (2, 3).

IPC 8 full level

H01H 1/20 (2006.01); **H01H 9/44** (2006.01); **H01H 73/18** (2006.01); **H01H 77/10** (2006.01)

CPC (source: EP KR)

H01H 9/443 (2013.01 - EP); **H01H 9/446** (2013.01 - EP); **H01H 73/18** (2013.01 - KR); **H01H 77/108** (2013.01 - EP); H01H 1/20 (2013.01 - EP)

Cited by

CN110945615A; US9406465B1; US2016217951A1; US9991073B2; EP3229250A4; GB2624720A; US9601297B2; US10636607B2; WO2016144610A1; WO2024110063A1; US10854414B2; US9552951B2; US9881761B2; US10224169B2; US10381186B2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2605265 A1 20130619; **EP 2605265 A4 20140910**; CN 103069532 A 20130424; JP 2012043541 A 20120301; KR 101377342 B1 20140325; KR 20130044319 A 20130502; TW 201230118 A 20120716; TW I446392 B 20140721; WO 2012020526 A1 20120216

DOCDB simple family (application)

EP 11816196 A 20110608; CN 201180039200 A 20110608; JP 2010180988 A 20100812; JP 2011003241 W 20110608; KR 20137003569 A 20110608; TW 100127728 A 20110804