

Title (en)

Static contact support for circuit breaker and circuit breaker thereof

Title (de)

Statischer Kontaktträger für einen Schutzschalter und Schutzschalter damit

Title (fr)

Support de contact statique pour disjoncteur et disjoncteur associé

Publication

EP 2905794 A1 20150812 (EN)

Application

EP 14197126 A 20141210

Priority

CN 201410006862 A 20140107

Abstract (en)

A static contact support (12) for a circuit breaker, comprising a base layer (122) and a reinforcing layer (124). The base layer is made of a material with good heat-conducting and electricity-conducting properties. The reinforcing layer is superposed on the base layer, and made of a material with good mechanical strength and magnetic permeability. The base layer has good electricity-conducting and heat-conducting properties, so on the one hand, produces very little heat; on the other hand, the base layer enables the static contact support to cool the arc, helping to extinguish it. The reinforcing layer on the one hand can reinforce the mechanical strength of the base layer; on the other hand, the magnetically permeable reinforcing layer can channel the arc into an arc extinguishing mechanism of the circuit breaker, so it is extinguished quickly. Furthermore, being superposed, the base layer and reinforcing layer can be conveniently fitted into the circuit breaker.

IPC 8 full level

H01H 1/025 (2006.01); **H01H 1/22** (2006.01)

CPC (source: CN EP)

H01H 1/025 (2013.01 - EP); **H01H 1/225** (2013.01 - EP); **H01H 73/04** (2013.01 - CN)

Citation (search report)

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- [YA] WO 2010079106 A1 20100715 - ABB SPA [IT], et al
- [A] EP 2535908 A1 20121219 - FURUKAWA ELECTRIC CO LTD [JP]
- [A] AT 251684 B 19670110 - LICENTIA GMBH [DE]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2905794 A1 20150812; **EP 2905794 B1 20180425**; CN 104766770 A 20150708; CN 104766770 B 20170908

DOCDB simple family (application)

EP 14197126 A 20141210; CN 201410006862 A 20140107