

Title (en)
Contact pastille for a movable electrical contact of a circuit breaker, movable electrical contact with such a pastille and circuit breaker with such a contact

Title (de)
Kontaktpastille für einen beweglichen elektrischen Kontakt eines Schutzschalters, beweglicher elektrischer Kontakt mit einer solchen Pastille und Schutzschalter mit einem solchen Kontakt

Title (fr)
Pastille de contact destinée à un contact électrique mobile de disjoncteur, contact électrique mobile possédant une telle pastille et disjoncteur comportant un tel contact

Publication
EP 1655749 A1 20060510 (FR)

Application
EP 05354035 A 20051011

Priority
FR 0411869 A 20041108

Abstract (en)
A contact pastille (3) destined to be fixed on a mobile contact (2) of a low voltage circuit breaker (1) designed to support peak short circuit currents of between 200 and 600 amperes per square millimetre of the pastille, is made of an alloy of conducting material with a base of silver (Ag) or copper (Cu), with a fraction of refractory particles such as tungsten carbide (WC), of tungsten (W) or of titanium nitride (TiN) and a fraction of carbon fibers. The overall content of carbon fibers is strictly less than 2% of the total mass of the contact pastille. The carbon fibers are crushed fibers with a medium length of less than 20 μ m. Independent claims are also included for the following: (A) a mobile contact for a circuit breaker incorporating this contact pastille; (B) a circuit breaker incorporating the mobile contact.

IPC 8 full level
H01H 1/02 (2006.01)

CPC (source: EP US)
H01H 1/027 (2013.01 - EP US); **H01H 1/0233** (2013.01 - EP US); **H01H 1/025** (2013.01 - EP US); **H01H 3/30** (2013.01 - EP US)

Citation (applicant)

- US 4699763 A 19871013 - SINHAROY SEMAHAT D [US], et al
- DE 4111683 A1 19921022 - DUERRWAECHTER E DR DODUCO [DE]
- EP 0171339 A1 19860212 - LORRAINE CARBONE [FR]
- EP 0729162 A1 19960828 - SCHNEIDER ELECTRIC SA [FR]
- EP 0729162 B1 19990728 - SCHNEIDER ELECTRIC SA [FR]
- EP 1115132 A1 20010711 - SCHNEIDER ELECTRIC IND SA [FR]
- EP 1251533 A1 20021023 - SCHNEIDER ELECTRIC IND SAS [FR]

Citation (search report)

- [Y] FR 2115865 A5 19720707 - DUERRWAECHTER E DR DODUCO
- [DY] US 4699763 A 19871013 - SINHAROY SEMAHAT D [US], et al
- [Y] US 5199553 A 19930406 - SHINOHARA HISAJI [US], et al
- [A] US 4689196 A 19870825 - LEUNG CHI H [US]

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CN104532050A

Designated contracting state (EPC)
DE ES GB IT

DOCDB simple family (publication)
EP 1655749 A1 20060510; **EP 1655749 B1 20071128**; CN 1773647 A 20060517; CN 1773647 B 20110921; DE 602005003537 D1 20080110; DE 602005003537 T2 20081023; ES 2297652 T3 20080501; FR 2877763 A1 20060512; FR 2877763 B1 20070316; US 2006096846 A1 20060511; US 7598832 B2 20091006

DOCDB simple family (application)
EP 05354035 A 20051011; CN 200510120121 A 20051104; DE 602005003537 T 20051011; ES 05354035 T 20051011; FR 0411869 A 20041108; US 26298405 A 20051101