

Title (en)

CURRENT CONNECTION AND/OR CUT-OFF DEVICE COMPRISING PERMANENT CONTACTS WITH REDUCED WEAR

Title (de)

STROMVERBINDUNGS- UND/ODER TRENNVORRICHTUNG MIT PERMANENTEN KONTAKTEN MIT GERINGEREM VERSCHLEISS

Title (fr)

DISPOSITIF D'ÉTABLISSEMENT ET/OU DE COUPURE DE COURANT À CONTACTS PERMANENTS À USURE RÉDUITE

Publication

**EP 2909849 A1 20150826 (FR)**

Application

**EP 13777286 A 20131017**

Priority

- FR 1259989 A 20121019
- EP 2013071689 W 20131017

Abstract (en)

[origin: WO2014060498A1] The invention relates to a current connection and/or cut-off device comprising a pair of permanent contacts (3, 4), at least one of the contacts (3, 4) of the pair being movable. At least one permanent contact (3, 4) of the pair comprises a main part (3.1, 4.1) having a free end and a terminal protection part (3.2, 4.2) secured to the free end of the main part (3.1, 4.1), and comes into mechanical and electrical contact with the other permanent contact (4, 3) of the pair only during an opening or closing manoeuvre of the pair. Said terminal protection part (3.2, 4.2) is made from a unique transition metal having a melting temperature that is strictly higher than that of the main part (3.1, 4.1) to which it is secured, or an oxide or a carbide of such a metal, or a zinc oxide. The invention is particularly applicable to high-voltage or medium-voltage circuit breakers.

IPC 8 full level

**H01H 33/02** (2006.01); **H01H 1/02** (2006.01); **H01H 1/0233** (2006.01); **H01H 1/0237** (2006.01); **H01H 1/04** (2006.01); **H01H 1/38** (2006.01); **H01H 33/12** (2006.01); **H01H 33/78** (2006.01)

CPC (source: CN EP US)

**H01H 1/02** (2013.01 - CN EP US); **H01H 1/0233** (2013.01 - CN EP US); **H01H 1/0237** (2013.01 - CN EP US); **H01H 1/385** (2013.01 - CN EP US); **H01H 33/025** (2013.01 - US); **H01H 33/12** (2013.01 - EP US); **H01H 33/78** (2013.01 - US); **H01H 33/12** (2013.01 - CN); **H01H 2201/008** (2013.01 - US); **H01H 2201/026** (2013.01 - US)

Citation (search report)

See references of WO 2014060498A1

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)

**WO 2014060498 A1 20140424**; CN 104769693 A 20150708; CN 104769693 B 20171226; EP 2909849 A1 20150826; EP 2909849 B1 20161207; FR 2997222 A1 20140425; FR 2997222 B1 20150116; IN 482MUN2015 A 20150904; US 10186389 B2 20190122; US 2015340179 A1 20151126

DOCDB simple family (application)

**EP 2013071689 W 20131017**; CN 201380054550 A 20131017; EP 13777286 A 20131017; FR 1259989 A 20121019; IN 482MUN2015 A 20150305; US 201314435882 A 20131017