

Title (en)

ARCING CONTACT TULIP WITH FLOW OPTIMIZED SLITS AND INTEGRATED STRESS RELIEF FEATURE

Title (de)

LICHTBOGENKONTAKTTULPE MIT FLUSSOPTIMIERTEN SCHLITZEN UND INTEGRIERTEM SPANNUNGSENTLASTUNGSMERKMAL

Title (fr)

CONTACT TULIPE D'AMORÇAGE D'ARC AVEC FENTES DE FLUX OPTIMISÉ ET FONCTIONNALITÉ DE DÉTENTE DE CONTRAINTES INTÉGRÉE

Publication

EP 3826042 A1 20210526 (EN)

Application

EP 19210974 A 20191122

Priority

EP 19210974 A 20191122

Abstract (en)

A tulip contact for a power switch, comprises a rotationally symmetric contact body 100 having a first end 120, a second end, and a plurality of slits 210, 220. The slits are arranged in the body and extend parallel to the symmetrical axis 140 of the body. The slits define a length between the first end and a root of the slits. The slits have a first width at the first end and a second width at the root of the slits, wherein the first width is bigger than the second width. A stress-relief element 400 is provided to mitigate mechanical stress in the material of the body 100 in case the slits 210, 220 close.

IPC 8 full level

H01H 1/38 (2006.01)

CPC (source: EP)

H01H 1/385 (2013.01)

Citation (search report)

- [XAYI] DE 1938698 U 19660518 - CALOR EMAG ELEKTRIZITAETS AG [DE]
- [YA] EP 3404679 A1 20181121 - GENERAL ELECTRIC TECHNOLOGY GMBH [CH]
- [YA] DE 202015106610 U1 20160111 - ABB TECHNOLOGY AG [CH]
- [A] DE 3829877 A1 19900315 - DUERRWAECHTER E DR DODUCO [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 3826042 A1 20210526; EP 3826042 B1 20240403; CN 115136271 A 20220930; EP 4062438 A1 20220928; JP 2023502718 A 20230125; JP 7350175 B2 20230925; WO 2021099166 A1 20210527

DOCDB simple family (application)

EP 19210974 A 20191122; CN 202080080873 A 20201109; EP 2020081518 W 20201109; EP 20800695 A 20201109; JP 2022529740 A 20201109