

Title (en)

ENCAPSULATED, PRESSURE-RESISTANT, NON-HERMETICALLY SEALED HEAVY-DUTY SPARK GAP WHICH IS ROTATIONALLY SYMMETRICAL IN TERMS OF ITS BASIC DESIGN

Title (de)

GEKAPSELTE, DRUCKFEST AUSGEFÜHRTE, NICHT HERMETISCH DICHT, GRUNDKONSTRUKTIV ROTATIONSSYMMETRISCHE HOCHLEISTUNGSFUNKENSTRECKE

Title (fr)

ECLATEUR A HAUTE PUISSANCE ENCAPSULE, RESISTANT A LA PRESSION, FERME NON HERMETIQUEMENT, A LA CONSTRUCTION DE BASE A SYMETRIE ROTATIONNELLE

Publication

EP 1992051 B1 20111005 (DE)

Application

EP 07726631 A 20070305

Priority

- EP 2007052051 W 20070305
- DE 102006011014 A 20060309
- DE 102006020129 A 20060502

Abstract (en)

[origin: WO2007101837A1] The invention relates to an encapsulated, pressure-resistant, non-hermetically sealed heavy-duty spark gap which is rotationally symmetrical in terms of its basic design and has two main electrodes, which are spaced apart opposite one another, a metallic outer housing having end-side flanging, at least one trigger electrode, a discharge space and electrical connection contacts, which are preferably arranged on the end side, for the main electrodes and main electrode embedding and centring bodies for fixing the main electrodes to one another and in relation to the outer housing. According to the invention, in a first embodiment an insulated wire or preferably strip-shaped conductor is inserted into a slit-shaped space between an outer side of one of the main electrodes and the associated side of the main electrode embedding and centring body so as to make contact with the trigger electrode, wherein the outer connection end of the conductor is accessible in the region of the end-side connection contact of the main electrode in question, and the inner end of the conductor, from which end the insulation has been stripped, is electrically connected to the trigger electrode. In a second embodiment, in order to make contact with the trigger electrode, one of the main electrode embedding and centring bodies is insulated and has a drilled hole running in the axial longitudinal direction, wherein a spring contact part is located in this drilled hole, the inner end of said spring contact part making contact with the trigger electrode and its outer end being accessible in the region of the associated end-side outer contact for the electrical connection.

IPC 8 full level

H01T 4/12 (2006.01); **H01T 2/02** (2006.01); **H01T 4/10** (2006.01)

CPC (source: EP)

H01T 2/02 (2013.01); **H01T 4/10** (2013.01); **H01T 4/12** (2013.01)

Cited by

DE102014015611A1; DE102014015611B4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006020129 A1 20070913; AT E527730 T1 20111015; EP 1992051 A1 20081119; EP 1992051 B1 20111005; JP 2009529759 A 20090820; RU 2008139455 A 20100420; WO 2007101837 A1 20070913

DOCDB simple family (application)

DE 102006020129 A 20060502; AT 07726631 T 20070305; EP 07726631 A 20070305; EP 2007052051 W 20070305; JP 2008557737 A 20070305; RU 2008139455 A 20070305