

Title (en)

ENCAPSULATED, PRESSURE-TIGHT, NONHERMETICALLY SEALED, ROTATIONALLY SYMMETRICAL HEAVY-DUTY SPARK GAP

Title (de)

GEKAPSELTE, DRUCKFEST AUSGEFÜHRTE, NICHT HERMETISCH DICHT, ROTATIONSSYMMETRISCHE HOCHLEISTUNGSFUNKENSTRECKE

Title (fr)

ECLATEUR A HAUTE PUISSANCE, ENCAPSULE, RESISTANT A LA PRESSION, ETANCHE MAIS NON HERMETIQUE ET A SYMETRIE DE ROTATION

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Application

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Abstract (en)

[origin: WO2008046454A1] The invention relates to an encapsulated, pressure-tight, nonhermetically sealed, rotationally symmetrical heavy-duty spark gap with two main electrodes positioned opposite one another at a distance, a metallic outer housing, a gas or plasma cooling area which is surrounded by the outer housing and electrical connection contacts, which are preferably arranged at the ends, for the main electrodes, wherein the cooling area comprises a coaxial arrangement of an inner (8) and an outer (9) cup, and one of the main electrodes is in the form of a hollow-cylindrical blowout electrode (3) and reaches into the inner cup (8), furthermore a centring supporting ring (7), which engages laterally around the blowout electrode (3), is provided on the open side of the cup arrangement, and the supporting ring (7) is connected to the outer cup (9) in a pressure-tight manner by means of a screw connection and the outer cup (9) has lateral gas outlet openings (10), which are located in slots (11), and at least one first gas cooling channel (12) is provided between the inner and the outer cups (8; 9) and a further, second slit-like gas cooling channel (13) is located between the outer wall of the outer cup (9) and the inner wall of the outer housing (1).

IPC 8 full level

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