

Title (en)
HORN SPARK GAP WITH A DEION CHAMBER

Title (de)
HÖRNERFUNKENSTRECKE MIT DEIONKAMMER

Title (fr)
ÉCLATEUR À CORNES À CHAMBRE DE DÉSIONISATION

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Abstract (en)
[origin: WO2012016743A1] The invention relates to a horn spark gap with a deion chamber (8) with a non-blowout design having a multi-part insulating housing as supporting and accommodating body for the horn electrodes (1, 2) and the deion chamber (8) and means for conducting the arc-induced gas flow, wherein the insulating housing is divided in the plane spanned by the horn electrodes and forms a first and a second half-shell. According to the invention, the horn electrodes (1, 2) have an asymmetrical form. The arc running region (11) between the electrodes is delimited in the direction of the deion chamber by a plate-shaped insulating material (20), wherein the plate-shaped insulating material (20) is inserted into a respective first shaped portion of the respective half-shell in a form-fitting manner. Furthermore, the first shaped portions accommodate a ferromagnetic deposit (21) of the arc running region (11), wherein the plate-shaped insulating material (20) electrically isolates the respective deposit from the electrodes (1, 2). The half-shells also have further, second shaped portions, which engage around an insertable deion chamber part (8) in a form-fitting manner, wherein apertures or openings in the respective half-shell are located between the respective first and second shaped portions, and the shorter (2) of the electrodes ends in front of the deion chamber part (8), with the result that the gas flow only passes partially into the deion chamber.

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