Title (en)

VACUUM SWICHT CONTACT ARRANGEMENT

Title (de)

VAKUUMSCHALTER-KONTAKTANORDNUNG

Title (fr)

SYSTEME DE CONTACT POUR COMMUTATEUR A VIDE

Publication

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Application

EP 95931885 A 19950908

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Abstract (en)

[origin: WO9609637A1] A contact arrangement is proposed which is a considerable improvement over the state of the art for generating a magnetic field in vacuum switching tubes, in which gaps, especially in the bottom and then in the wall of a cup-shaped support form winding sections generating magnetic fields: first gaps, e.g. according to (6), run along the inside of the cup in the cup bottom (3). Second gaps (4) extending into the cup wall (4), e.g. according to (7e), adjoin. Consequently there is a basic winding shape, the design of which can be refined, e.g. according to (9). The cup bottom connects such winding sections superficially with the power connector (2). With an equal-level and especially flat connection, according to the arrangement of flow conducting gaps, e.g. acccording to (15), in the cup bottom, there is also an azimuthal flow to the winding sections (9), which reinforces their magnetic field generation. The basic winding shape can already peripherally overlap the prior cup bottom outlet regions. Third and fourth gaps adjoining the second gap in the cup wall extend the basic winding shape, thus also producing an axial overlap. An axial overlap in the basic shape of the winding sections provides a two layer annular winding in the end effect with the very minimum height provided by the design and the maximum magnetisation efficiency.

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