

Title (en)

HIGH-VOLTAGE CIRCUIT BREAKER WITH A DISCHARGE CHANNEL

Title (de)

HOCHSPANNUNGSLEISTUNGSSCHALTER MIT EINEM ABSTRÖMKANAL

Title (fr)

DISJONCTEUR D'ALIMENTATION HAUTE TENSION DOTE D'UN CANAL D'ECOULEMENT

Publication

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Application

EP 00949083 A 20000609

Priority

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- DE 19928080 A 19990611

Abstract (en)

[origin: WO0077809A1] The invention relates to a high-voltage circuit breaker, comprising two arcing contacts (4,5) which separate in the event of breaking and between which an electric arc (12) may be produced in an electric arc chamber (9) filled with arc-extinguishing gas. The extinguishing gas that is heated by the electric arc exits through a discharge channel (see claim no. 1), starting from the narrow point (6) of an insulating nozzle (7) that surrounds the electric arc chamber. Said discharge channel has several areas (12,13,14,15) through which the arc-extinguishing gas successively passes. According to the invention, the first area (12), which faces towards the narrow point of the nozzle, has a reduced specific flow resistance in relation to the narrow point (6) and at least a second area (13), a third area (14) and a fourth area are provided downstream of the first area (12) in the discharge direction, the specific flow resistance of the second and third areas being greater than the specific flow resistance of the area directly preceding them in the discharge direction of the arc-extinguishing gas and the specific flow resistance of the third area (14) being less than that of the second area (13).

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Citation (search report)

See references of WO 0077809A1

Cited by

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