

Title (en)

SELF-RECOVERING CURRENT-LIMITING DEVICE WITH LIQUID METAL

Title (de)

SELBSTERHOLENDE STROMBEGRENZUNGSEINRICHTUNG MIT FLÜSSIGMETALL

Title (fr)

DISPOSITIF LIMITEUR DE COURANT A AUTO-RETABLISSEMENT ET DOTE DE METAL LIQUIDE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0031768A1] The invention relates to a self-recovering current-limiting device with liquid metal. The device contains two solid metal electrodes (11, 12) which are rotationally symmetrical in relation to the longitudinal axis (3) of the current limiting device (1) and several compression chambers (4) which are partially filled with liquid metal (8) and arranged in a series between the electrodes (11, 12). The compression chambers are formed by pressure-resistant insulating bodies (5, 7) and insulating intermediate walls (6) which are supported by the same (6) and which have several connecting channels (9), distributed in a circular form. The aim of the invention is to extend the positions of use. To this end, the electrodes (11, 12) have cavities (14) which are connected to the adjacent compression chambers (4) by openings (16) and which are adequately wetted to completely filled with the liquid metal (8), according to the position of use.

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