

Title (en)
DEVICE FOR GENERATING A RELIABLE LOW-IMPEDANCE ELECTRIC SHORT-CIRCUIT IRRESPECTIVELY OF THE OPERATING VOLTAGE

Title (de)
EINRICHTUNG ZUM BETRIEBSSPANNUNGSUNABHÄNGIGEN ERZEUGEN EINES SICHEREN, NIEDEROHMIGEN ELEKTRISCHEN KURZSCHLUSSES

Title (fr)
DISPOSITIF POUR PRODUIRE UN COURT-CIRCUIT ÉLECTRIQUE HAUTE IMPÉDANCE, SÛR, INDÉPENDAMMENT DE LA TENSION DE FONCTIONNEMENT

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Abstract (en)
[origin: WO2014067691A1] The invention relates to a device for generating a reliable low-impedance electric short-circuit irrespectively of the operating voltage, comprising two electric connection parts (1, 2) which are plate-shaped in particular and which carry a different potential. An insulating section is formed between the connection parts, and the desired short-circuit is implemented by at least partly penetrating or destroying the insulating section. According to the invention, the connection parts are arranged closely adjacent to each other with the inclusion of the insulating section, and the insulating section is in the form of an insulating foil (4) or a foil-like coating. Furthermore, an exothermic mass (3) is located in the direct vicinity of the insulating section, and the mass releases exothermic energy when energy is applied and produces a melting or deformation of the insulating section such that the galvanic isolation between the connection parts (1, 2) is removed and the short-circuit event occurs.

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