

Title (en)

Method and device for overvoltage protection of direct-current electrical circuits with currents even in tens of amperes, especially of photovoltaic sources of electric current

Title (de)

Methode zum Überspannungsschutz von Gleichstromkreisen mit Strom von Dutzenden von Ampère, vorzugsweise von photovoltaischen Stromquellen, und entsprechende Vorrichtung

Title (fr)

Méthode de protection contre les surtensions de circuits électriques à courant continu de plusieurs dizaines d' ampère, spécialement de source de courant photovoltaïque, et dispositif de protection correspondant

Publication

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Application

EP 10164827 A 20100603

Priority

CZ 2010440 A 20100603

Abstract (en)

The invention relates to the method of overvoltage protection of direct-current electrical circuits with currents even in tens of amperes, especially of photovoltaic sources of electric current, at which in the device for overvoltage protection the current path in the point (X) of intentional cutting off the current path is disconnected. During cutting off the current path in the point (X) between the current path elements being disconnected the value of electric current is limited, through which occurrence of uncontrolled electric arc between the current path parts being disconnected is suppressed. The invention also relates to the corresponding device, which comprises contacts (00) for connection of electric conductors of protected circuit, between the contacts (00) there is arranged the current path with at least one varistor (1), between the varistor (1) and one contact (00) there is created the point (X) of intentional cutting off the current path with soldered joint of surface of the fixed element of the current path and of surface of moving element of current path.

IPC 8 full level

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CPC (source: EP)

H01C 7/126 (2013.01); **H01H 9/42** (2013.01); **H01H 83/10** (2013.01)

Citation (applicant)

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