

Title (en)

COMPACT ARRANGEMENT FOR MULTIPOLE, SURGE-PROOF SURGE ARRESTERS AND ENCAPSULATED SURGE ARRESTER FOR THE SAME

Title (de)

KOMPAKTANORDNUNG FÜR MEHRPOLIGE STOSSSTROMFESTE ÜBERSPANNUNGABLEITER SOWIE GEKAPAEALTER ÜBERSPANNUNGSABLEITER HIERFÜR

Title (fr)

DISPOSITIF COMPACT DESTINE A DES DERIVATEURS DE SURTENSION MULTIPOLAIRES ET RESISTANTS AUX COURANTS DE CHOC ET DERIVATEURS DE SURTENSION ENCAPSULES CORRESPONDANTS

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Application

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Abstract (en)

[origin: WO0245224A2] The invention relates to a compact arrangement for multipole, surge-protected surge arresters, comprising internally wired, encapsulated series gaps which are arranged essentially in parallel in a housing. Said series gaps have opposite-lying, projecting contact surfaces which are connected to outer terminals and inner contact bars or bridges. The arrangement also comprises an electronic control or trigger circuit which is located on a wiring support. The housing is provided with dividing walls and has a trough shape, the resulting housing chambers accommodating the series gaps and the terminals. An insulating plate with openings into which spring contact elements are introduced is provided on the housing trough which opens upwards. Located above said insulating plate is the wiring. The spring contact elements create the electrical connection between contact points on the underside of the wiring support and the cover of one of the series gaps, respectively. The invention also relates to an encapsulated surge protector, comprising a series gap arrangement with two metallic main electrodes lying coaxially to each other and at least partially overlapping each other and having connections in opposite directions. Said main electrodes form an arc chamber in conjunction with at least one insulation part. According to the invention, at least one of the main electrodes has an inner expansion chamber and a trigger electrode extending preferably radially or axially rotationally symmetrically is provided at least in the area of an outer insulation part.

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