

Title (en)

DISCONNECTOR ARRANGEMENT AND FABRICATION METHOD

Title (de)

TRENNSCHALTERANORDNUNG UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

AGENCEMENT DE SECTIONNEUR ET PROCÉDÉ DE FABRICATION

Publication

EP 3373401 A1 20180912 (EN)

Application

EP 17159413 A 20170306

Priority

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Abstract (en)

The present invention generally relates to a disconnecter arrangement for surge arresters that are used in protecting electrical equipment against overvoltage. The present invention further relates to a method of fabricating such a disconnecter arrangement. The disconnecter arrangement comprises a first terminal (102), and a second terminal (104), said first and second terminals (102, 104) being arranged along a longitudinal axis (122) of the disconnecter arrangement (100), an electrically insulating enclosure (110) comprising a main body (106) and a cover element (108), the enclosure (110) forming an arc chamber (138) between said first and second terminals (102, 104), a resistor (120) interconnecting said first and second terminals (102, 104), said resistor (120) being arranged in a central region of the disconnecter arrangement (100), wherein the arc chamber (138) is ring-shaped and surrounds the resistor (120), a first arc electrode (114), and a second arc electrode (116). The first and second arc electrodes (114, 116) are distanced apart from each other to form an arc gap (136) that is arranged to radially encompass said resistor (120). An explosive material (126) can be thermally activated to detonate when a temperature at the resistor (120) exceeds a threshold value, said explosive material (126) being arranged around the resistor (120) and in a radial direction inside the arc gap (136).

IPC 8 full level

H01T 1/14 (2006.01); **H01T 4/08** (2006.01)

CPC (source: EP)

H01T 1/14 (2013.01); **H01T 4/08** (2013.01)

Citation (applicant)

IN 3263MU2013 A 20150703 - RAYCHEM RPG PVT LTD [IN]

Citation (search report)

- [Y] US 3668458 A 19720606 - IRIE KOUHEI, et al
- [Y] DE 102014015612 A1 20160428 - PHOENIX CONTACT GMBH & CO [DE]
- [A] US 2989608 A 19610620 - CLIFFORD HICKS BRUCE

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