Title (en)

SAFTEY FUSE FOR LOW-VOLTAGE APPLICATIONS

Title (de)

SCHMELZSICHERUNG FÜR NIEDERSPANNUNGSANWENDUNGEN

Title (fr)

FUSIBLE CONÇU POUR DES APPLICATIONS BASSE TENSION

Publication

EP 3580772 B1 20210421 (DE)

Application

EP 18702984 A 20180201

Priority

- DE 102017102397 A 20170208
- DE 102017126419 A 20171110
- EP 2018052457 W 20180201

Abstract (en)

[origin: WO2018145978A1] The invention relates to a safety fuse for low-voltage applications for protecting devices that can be connected to a power supply system, particularly overvoltage arresters, such as spark gaps or varistors, consisting of at least one fuse element located between two contacts and arranged in a protective housing, and a short-circuit auxiliary contact with an inner isolating distance to the fusing conductor. According to the invention, an externally activatable switching device for overriding the isolating distance is embodied inside the protective housing in order to trigger a low-resistance or impedance-laden short circuit, the switching device comprising an insulating element forming the isolating distance, which experiences a change of state by means of an exothermic activator, and the activator is connected to at least one control connection.

IPC 8 full level

H01H 39/00 (2006.01); **H01H 85/00** (2006.01); **H01H 85/12** (2006.01)

CPC (source: EP)

H01H 39/006 (2013.01); **H01H 85/0047** (2013.01); **H01H 85/0056** (2013.01); **H01H 85/0065** (2013.01); H01H 85/12 (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102017126419 A1 20180809; CN 110383413 A 20191025; CN 110383413 B 20220322; EP 3580772 A1 20191218; EP 3580772 B1 20210421; JP 2020508557 A 20200319; JP 6884231 B2 20210609; SI 3580772 T1 20220729; WO 2018145978 A1 20180816

DOCDB simple family (application)

DE 102017126419 A 20171110; CN 201880010795 A 20180201; EP 18702984 A 20180201; EP 2018052457 W 20180201; JP 2019563671 A 20180201; SI 201830335 T 20180201