

Title (en)
SURGE PROTECTOR HAVING A THERMAL SEPARATING DEVICE

Title (de)
ÜBERSpannungsschutzgerät mit thermischer Abtrennvorrichtung

Title (fr)
APPAREIL DE PROTECTION CONTRE DES SURTENSIONS ÉQUIPÉ D UN DISPOSITIF DE COUPURE THERMIQUE

Publication
EP 2171728 B1 20111019 (DE)

Application
EP 09756120 A 20090624

Priority
• EP 2009057857 W 20090624
• DE 102008039323 A 20080822
• DE 102008047396 A 20080916

Abstract (en)
[origin: WO2010020452A1] The invention relates to a surge protector having a thermal separating device and an error display, and at least two first protection elements, particularly disk-shaped varistors (7), and at least one second protection element, particularly a gas arrester (9), wherein the first and the at least one second protection elements are switched in a Y arrangement, further comprising a device housing for accommodating the protection elements, and a means (11) for the mechanical biasing of the thermal separating device, wherein the thermal separating device has a low-melting solder, and the first protection elements (7) are disposed in the device housing such that a connection arm of a protection element (7) is positioned opposite the connection arm of the further protection element (7) at a distance, and the thermal separating device is predominantly positioned in the distance space (13) formed in such a manner. According to the invention, a connection arm of the second protection element (9) directly bypasses said connection arms (12) of the first protection elements (7) in the distance space in a solder-contacted manner, wherein a finger (16) of a mechanically biased separating block (5) acts upon the bypass connection arm (15) such that in the event of an overload the bypass connection arm (15) is spatially placed at a distance to the connection arms (12) of the first protection elements (7).

IPC 8 full level
H01C 7/12 (2006.01)

CPC (source: EP US)
H01C 7/126 (2013.01 - EP US)

Designated contracting state (EPC)
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 SE SI SK TR

DOCDB simple family (publication)
WO 2010020452 A1 20100225; AT E529867 T1 20111115; CN 102132360 A 20110720; CN 102132360 B 20130417; DE 102008047396 B3 20100311; EP 2171728 A1 20100407; EP 2171728 B1 20111019; JP 2012501043 A 20120112; JP 5331206 B2 20131030; PL 2171728 T3 20120330; US 2011222199 A1 20110915; US 8526159 B2 20130903

DOCDB simple family (application)
EP 2009057857 W 20090624; AT 09756120 T 20090624; CN 200980132506 A 20090624; DE 102008047396 A 20080916; EP 09756120 A 20090624; JP 2011523361 A 20090624; PL 09756120 T 20090624; US 73783009 A 20090624