

Title (en)

Electric switching device with a thermal actuator

Title (de)

Elektrisches Schaltgerät mit einem thermischen Auslöser

Title (fr)

Commutateur électrique doté d'un déclencheur thermique

Publication

EP 2256778 A3 20110323 (DE)

Application

EP 10004302 A 20100422

Priority

DE 102009023557 A 20090530

Abstract (en)

[origin: DE102009023557B3] The switch (1) has a tripping device comprising a strip (2) made from thermal bimetal and shape memory alloy. The strip is fastened to a free end of a retaining bracket (4) supported at a support end in a movable manner. The strip stays in effective connection with a latch (8), and a current path runs between input and output terminals (9, 10). The terminal (9) and a fastening end (3) of the strip are connected over a conductor piece (11) i.e. conductor strip, that has higher conductivity than the bracket, where the bracket is made from steel and the conductor piece is made from copper.

IPC 8 full level

H01H 71/16 (2006.01); **H01H 71/08** (2006.01); **H01H 71/40** (2006.01)

CPC (source: EP)

H01H 71/08 (2013.01); **H01H 71/16** (2013.01); **H01H 71/40** (2013.01); **H01H 71/145** (2013.01); **H01H 71/52** (2013.01); **H01H 71/7427** (2013.01)

Citation (search report)

- [A] US 5872495 A 19990216 - DIMARCO BERNARD [US], et al
- [A] DE 4202122 A1 19930729 - KLOECKNER MOELLER GMBH [DE]
- [A] EP 0616350 A1 19940921 - MAIER & CIE C [CH]
- [AD] DE 102008006863 A1 20090122 - ABB AG [DE]

Cited by

EP2254138A3

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 SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

DE 102009023557 B3 20100805; AT E535005 T1 20111215; CN 201629238 U 20101110; EP 2256778 A2 20101201; EP 2256778 A3 20110323; EP 2256778 B1 20111123; ES 2377549 T3 20120328

DOCDB simple family (application)

DE 102009023557 A 20090530; AT 10004302 T 20100422; CN 200920162735 U 20090724; EP 10004302 A 20100422; ES 10004302 T 20100422