

Title (en)
METHOD FOR EXPANDING THE ADJUSTMENT RANGE OF OVERLOAD PROTECTION DEVICES, ASSOCIATED OVERLOAD PROTECTION DEVICES AND THEIR USE

Title (de)
VERFAHREN ZUR ERWEITERUNG DES EINSTELLBEREICHES VON ÜBERLASTSCHUTZEINRICHTUNGEN, ZUGEHÖRIGE ÜBERLASTSCHUTZEINRICHTUNGEN UND DEREN VERWENDUNG

Title (fr)
PROCEDR POUR RLARGIR LA PLAGE DE RRGLAGE DE DISPOSITIFS DE PROTECTION CONTRE LES SURCHARGES, DISPOSITIFS DE PROTECTION CONTRE LES SURCHARGES ASSOCIIRS ET LEUR UTILISATION

Publication
EP 1977436 A1 20081008 (DE)

Application
EP 07702957 A 20070123

Priority
• EP 2007000547 W 20070123
• DE 102006003124 A 20060123

Abstract (en)
[origin: WO2007082775A1] In order to achieve thermomechanical overload protection with a broad adjustment range for protecting against overload currents, the live components carry an electrical current which is between the value of the overload current and zero. According to the invention, switching means are used which, in a preferred embodiment, switch the current, in parallel, from a first current branch to at least one second current branch, the parallel-connected at least one current branch carrying a partial current, which is between the value of the overload current and zero. In the associated overload protection device (102), contact means are provided which are associated with live components on two current branches (1, 2) which can be connected in parallel with one another, wherein at least one current branch can be switched on and off by the switching means. In an alternative embodiment, a first and a second current branch are connected electrically in series by switching means, as a result of which it is possible to switch over from an upper adjustment range to another, lower adjustment range of the broad adjustment range.

IPC 8 full level
H01H 71/74 (2006.01); **H01H 71/16** (2006.01)

CPC (source: EP US)
H01H 71/164 (2013.01 - EP US); **H01H 71/74** (2013.01 - EP US); **H01H 71/7418** (2013.01 - EP US); **H01H 2071/749** (2013.01 - EP US)

Citation (search report)
See references of WO 2007082775A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007082775 A1 20070726; BR PI0707212 A2 20110426; CN 101371325 A 20090218; CN 101371325 B 20130102; DE 102006003124 A1 20070802; EP 1977436 A1 20081008; JP 2009524383 A 20090625; JP 4705999 B2 20110622; US 2011248815 A1 20111013

DOCDB simple family (application)
EP 2007000547 W 20070123; BR PI0707212 A 20070123; CN 200780002994 A 20070123; DE 102006003124 A 20060123; EP 07702957 A 20070123; JP 2008550701 A 20070123; US 22303007 A 20070123