

Title (en)  
MAIN SWITCH ARRANGEMENT FOR A RESIDUAL CURRENT SAFETY SWITCH

Title (de)  
HAUPTSCHALTERANORDNUNG FÜR EINEN RESTSTROMSCHUTZSCHALTER

Title (fr)  
AGENCEMENT DE COMMUTATEUR PRINCIPAL POUR UN COMMUTATEUR DE PROTECTION À COURANT DIFFÉRENTIEL RÉSIDUEL

Publication  
**EP 3419041 B1 20190731 (EN)**

Application  
**EP 17177315 A 20170622**

Priority  
EP 17177315 A 20170622

Abstract (en)  
[origin: EP3419041A1] A main switch arrangement for a residual current safety switch, which arrangement comprises a main shaft (1) movable in the vertical direction and a trip part (2) arranged essentially around the main shaft, which trip part is adapted to turn around the main shaft, an actuator (12) and a summation current transformer connected electrically to it, which actuator (12) is arranged essentially in connection with the trip part (2), at least one return spring (8, 9) and a contact module. The main shaft (1), trip part (2), return spring (8, 9) and actuator (12) are arranged in such a way that in a fault current situation a protrusion (13) projecting from the actuator is adapted to push the trip part (2) and to bring about a rotational motion in the trip part, and wherein the rotational motion of the trip part is further adapted to release the spring force formed by the return spring (8, 9), said spring force lifting the main shaft and/or lowering the contact module, in such a way that the contact module of the main switch in connection with the main shaft displaces into an electrically non-conductive state.

IPC 8 full level  
**H01H 83/14** (2006.01); **H01H 71/50** (2006.01); **H01H 83/04** (2006.01)

CPC (source: EP)  
**H01H 71/505** (2013.01); **H01H 83/144** (2013.01); **H01H 83/04** (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)  
**EP 3419041 A1 20181226; EP 3419041 B1 20190731; HU E045878 T2 20200128**

DOCDB simple family (application)  
**EP 17177315 A 20170622; HU E17177315 A 20170622**