

Title (en)  
OPERATION DEVICE OF MULTI-POLE MINIATURE CIRCUIT BREAKER

Title (de)  
BETRIEBSVORRICHTUNG EINES MEHRPOLIGEN MINIATURSCHUTZSCHALTERS

Title (fr)  
DISPOSITIF DE FONCTIONNEMENT DE DISJONCTEUR MINIATURE MULTI-PÔLE

Publication  
**EP 3171385 A1 20170524 (EN)**

Application  
**EP 15821567 A 20150128**

Priority  
• CN 201410341341 A 20140717  
• CN 2015071748 W 20150128

Abstract (en)  
An operation device of a multi-pole miniature circuit breaker comprises a handle, a rotary plate pivotally mounted on a housing through a mandrel, two pairs of contacts capable of performing closing/breaking fit, two electromagnetic tripping devices arranged side by side, and two thermal tripping devices arranged side by side. A tripping connecting rod provided with a lock hook is pivotally mounted on the rotary plate through a first twisting shaft; a lock tooth, a control element capable of being matched with electromagnetic tripping devices of circuit breaker respectively, and an actuating rod capable of being matched with bimetallic sheets of thermal tripping devices of circuit breakers of two adjacent poles are arranged on a tripping rod which is pivotally mounted on the rotary plate through a second twisting shaft; two ends of a U-shaped rod are in hinge connection with the handle and the tripping connecting rod respectively; two short-circuit short columns arranged on the control element side by side are matched with actuating ejection rods of the two electromagnetic tripping devices in a triggering manner respectively; and two overload short columns arranged on the actuating rod side by side are matched with the bimetallic strips of the two thermal tripping devices in a triggering manner respectively. The tripping rod can be controlled by the two adjacent groups of independent tripping devices; and the operation device is small in size, compact in structure and more reliable in motion.

IPC 8 full level  
**H01H 71/10** (2006.01)

CPC (source: EP KR)  
**H01H 71/002** (2013.01 - EP); **H01H 71/10** (2013.01 - EP KR); **H01H 71/123** (2013.01 - KR); **H01H 71/526** (2013.01 - EP)

Cited by  
EP3671799A1; US10984974B2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3171385 A1 20170524**; **EP 3171385 A4 20180221**; **EP 3171385 B1 20180919**; AU 2015291700 A1 20170309; AU 2015291700 B2 20180705; CN 104134588 A 20141105; CN 104134588 B 20160302; KR 101929302 B1 20181214; KR 20170068430 A 20170619; WO 2016008298 A1 20160121

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