

Title (en)  
MULTI-POLE DOUBLE-BREAKPOINT PLASTIC-SHELL CIRCUIT BREAKER

Title (de)  
MEHRPOLIGER SCHUTZSCHALTER MIT KUNSTSTOFFGEHÄUSE UND DOPPELTEM BRUCHPUNKT

Title (fr)  
DISJONCTEUR À BOÎTIER EN PLASTIQUE À DOUBLE POINT DE COUPURE MULTIPOLAIRE

Publication  
**EP 3223296 A1 20170927 (EN)**

Application  
**EP 15862046 A 20151009**

Priority  
• CN 201420701162 U 20141120  
• CN 2015091532 W 20151009

Abstract (en)  
The invention relates to a multi-pole double-break contact plastic case circuit breaker. A plurality of single pole circuit breaking units are arranged in an insulation case. The unit plastic case of each single pole circuit breaker is provided with a contact system and a matched arc extinguishing system. The contact system of each pole comprises two static contacts configured oppositely and a bridge-shaped movable contact, wherein each bridge-shaped movable contact is mounted on a contact support. Each arc extinguishing system comprises two arc extinguishing chambers that are arranged symmetrically. Outer rings of a plurality of rolling bearings are fixedly mounted on partition walls through a bearing mechanism, inner rings of the rolling bearings are directly connected with the contact supports in a stationary fit manner, and every two adjacent contact supports are in plug connection directly in a stationary fit manner; a cylindrical chamber for accommodating each contact support is arranged between two arc extinguishing chambers of the unit plastic case of each single pole circuit breaking unit. Therefore, high sensitivity and high precision of rotation of each contact support are ensured, and the precision and synchronism requirements can be ensured through machining just relying on the precision of a die itself.

IPC 8 full level  
**H01H 71/10** (2006.01); **H01H 73/04** (2006.01); **H01H 73/18** (2006.01)

CPC (source: EP IL)  
**H01H 1/2058** (2013.01 - EP IL); **H01H 71/10** (2013.01 - EP IL); **H01H 73/04** (2013.01 - EP IL); **H01H 73/045** (2013.01 - EP IL); **H01H 73/18** (2013.01 - EP IL); **H01H 2003/326** (2013.01 - EP IL); **H01H 2009/0094** (2013.01 - EP IL)

Cited by  
EP3843115A1

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 3223296 A1 20170927**; **EP 3223296 A4 20180801**; CN 204375671 U 20150603; IL 252420 A0 20170731; IL 252420 B 20210630; WO 2016078482 A1 20160526

DOCDB simple family (application)  
**EP 15862046 A 20151009**; CN 201420701162 U 20141120; CN 2015091532 W 20151009; IL 25242017 A 20170521