

Title (en)  
CIRCUIT BREAKER AND EXHAUST STRUCTURE THEREOF

Title (de)  
SCHUTZSCHALTER UND ABGASSTRUKTUR DAFÜR

Title (fr)  
DISJONCTEUR ET SA STRUCTURE D'ÉCHAPPEMENT

Publication  
**EP 3373320 A1 20180912 (EN)**

Application  
**EP 16861408 A 20160929**

Priority  
• CN 201510733926 A 20151102  
• CN 2016100720 W 20160929

Abstract (en)  
A circuit breaker and an exhaust structure thereof. The circuit breaker comprises an exhaust port (101, 102, 103). The exhaust port is aligned with a tail of an arc extinguish chamber (106). An exhaust space of the exhaust port is overlapped with a wiring device (401, 402) of the circuit breaker. When the wiring device is not connected, the wiring device occupies the exhaust space. When the wiring device is connected, the exhaust space is vacated. The exhaust structure of circuit breaker utilizes an unoccupied space of the wiring device, increases the quantity of exhaust ports, expands the exhaust space, thereby significantly improving the exhaust capability. The exhaust structure is also provided with a block protrusion (104) for cutting off an arc. The block protrusion also serves as a support for the arc extinguish chamber, avoiding reduction of the arc extinguish capability due to a shifting of the arc extinguish chamber caused by an impact.

IPC 8 full level  
**H01H 73/18** (2006.01)

CPC (source: CN EP KR RU)  
**H01H 9/342** (2013.01 - EP); **H01H 73/18** (2013.01 - CN EP KR RU)

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 3373320 A1 20180912; EP 3373320 A4 20190626; EP 3373320 B1 20210127**; BR 112018008355 A2 20181030;  
BR 112018008355 B1 20230124; CN 105244242 A 20160113; CN 105244242 B 20170915; KR 102641636 B1 20240228;  
KR 20180105638 A 20180928; RU 2702341 C1 20191008; WO 2017076140 A1 20170511

DOCDB simple family (application)  
**EP 16861408 A 20160929**; BR 112018008355 A 20160929; CN 201510733926 A 20151102; CN 2016100720 W 20160929;  
KR 20187015737 A 20160929; RU 2018121248 A 20160929