

Title (en)
CIRCUIT BREAKER WITH A MAGNETIC BLOW OUT ASSEMBLY

Title (de)
SCHUTZSCHALTER MIT EINER MAGNETISCHE AUSBLASBAUGRUPPE

Title (fr)
DISJONCTEUR AVEC UN ENSEMBLE DE SOUFFLAGE MAGNÉTIQUE

Publication
EP 4009342 A3 20220831 (EN)

Application
EP 21207794 A 20211111

Priority
CN 202022604920 U 20201112

Abstract (en)
The present utility model provides a circuit breaker. The circuit breaker includes a base extending at least partially in a horizontal direction, and further includes an arc extinguishing chamber, a static contactor, a movable contactor, and a magnetization assembly. The magnetization assembly includes a first magnetization chamber and a second magnetization chamber both made of a non-electrically and non-magnetically conductive material. The first magnetization chamber and the second magnetization chamber are arranged opposite to each other on two lateral sides of the reverse base body. The first magnetization chamber and the second magnetization chamber extend and cover at least part of the static contact in a longitudinal direction of the reverse base body, and extend vertically at least beyond the static contact. The magnetization assembly further includes a magnetically conductive material filled in cavities of the first magnetization chamber and the second magnetization chamber. The circuit breaker having the configuration described above is capable of applying, on a side of an arc facing away from the arc extinguishing chamber, to the arc an electromagnetic force towards the arc extinguishing chamber, thereby further urging the arc to move towards the arc extinguishing chamber.

IPC 8 full level
H01H 9/44 (2006.01); **H01H 1/22** (2006.01); **H01H 77/10** (2006.01)

CPC (source: EP)
H01H 1/221 (2013.01); **H01H 9/446** (2013.01); **H01H 9/302** (2013.01); **H01H 9/346** (2013.01); **H01H 77/108** (2013.01)

Citation (search report)

- [XYI] US 9704676 B1 20170711 - CARDWELL JUSTIN MICHAEL [US]
- [XYI] EP 1906430 A1 20080402 - EATON CORP [US]
- [XYI] EP 2005459 A1 20081224 - EATON CORP [US]
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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 4009342 A2 20220608; **EP 4009342 A3 20220831**; CN 213781970 U 20210723

DOCDB simple family (application)
EP 21207794 A 20211111; CN 202022604920 U 20201112