

Title (en)

HIGH-VOLTAGE CIRCUIT BREAKER WITH A REMOVABLE SCREEN FOR IMPROVING THE FIELD GRADIENT

Title (de)

HOCHSPANNUNGSSCHUTZSCHALTER MIT ENTFERNBARER ABSCHIRMUNG ZUR VERBESSERUNG DES FELDGRADIENTEN

Title (fr)

DISJONCTEUR A HAUTE TENSION A ECRAN AMOVIBLE POUR L'AMELIORATION DU GRADIENT DE CHAMP

Publication

EP 2510530 A1 20121017 (FR)

Application

EP 10787765 A 20101207

Priority

- FR 0958771 A 20091209
- EP 2010069087 W 20101207

Abstract (en)

[origin: WO2011070022A1] The high-voltage circuit breaker makes it possible to reduce the electric field on the arc contacts during cut-offs and consequently the rate of triggering the apparatus. The two contacts (2) and (6) are able to move relative to each other in opposite directions during cut-offs. Their respective supporting members (8) and (16) are also able to move and slide one in relation to the other with respect to a fixed frame. A screen (1) is placed inside the support housing for the first contact (6), by virtue of springs (17), and is moved during an opening operation by means of rods (31). The stops (30) define the instant when the screen starts to move. During its movement, the screen compresses the springs (17) and it keeps this position relative to the arc contact (2) and to the permanent contact (20) until the end of travel. Application to very high-voltage circuit breakers.

IPC 8 full level

H01H 33/24 (2006.01); **H01H 3/46** (2006.01)

CPC (source: EP)

H01H 33/245 (2013.01); **H01H 3/46** (2013.01)

Citation (search report)

See references of WO 2011070022A1

Cited by

EP3151261A1; WO2017055051A1

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)

FR 2953639 A1 20110610; FR 2953639 B1 20120113; CN 102725810 A 20121010; CN 102725810 B 20150401; EP 2510530 A1 20121017; EP 2510530 B1 20140416; WO 2011070022 A1 20110616

DOCDB simple family (application)

FR 0958771 A 20091209; CN 201080054815 A 20101207; EP 10787765 A 20101207; EP 2010069087 W 20101207