

Title (en)

AIR CIRCUIT BREAKER HAVING AN IMPROVED ELECTRICAL ARC CUTTING CHAMBER

Title (de)

SCHUTZSCHALTER MIT UNTERBRECHUNG IN DER LUFT, DER EINE KAMMER MIT VERBESSERTER LICHTBOGENUNTERBRECHUNG UMFASST

Title (fr)

DISJONCTEUR À COUPURE DANS L'AIR PRÉSENTANT UNE CHAMBRE DE COUPURE D'ARC ÉLECTRIQUE AMÉLIORÉE

Publication

**EP 3236482 B1 20190206 (FR)**

Application

**EP 17167276 A 20170420**

Priority

FR 1653554 A 20160421

Abstract (en)

[origin: US2017309425A1] An air circuit breaker includes two separable electrical contacts connected to electric current input and output terminals; and a chamber for quenching an electric arc, including a stack of splitter plates that are spaced apart from one another, and lateral walls placed on either side of the stack and including a thermosetting-resin impregnated polyamide woven and being devoid of glass fibres. The quenching chamber furthermore includes protective elements made of crosslinked polyamide, the elements being placed in junction zones between the lateral walls and holding plates, the protective elements covering corners of the splitter plates, which corners are adjacent to the lateral walls, so as to separate these corners of the splitter plates from the electrical contacts.

IPC 8 full level

**H01H 9/34** (2006.01); **H01H 9/36** (2006.01)

CPC (source: CN EP RU US)

**H01H 9/34** (2013.01 - CN RU); **H01H 9/345** (2013.01 - EP US); **H01H 9/346** (2013.01 - CN EP US); **H01H 9/362** (2013.01 - EP US); **H01H 33/10** (2013.01 - US); **H01H 33/65** (2021.05 - US)

Cited by

CN109559948A; WO2022018053A1; FR3112890A1

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)

**EP 3236482 A1 20171025; EP 3236482 B1 20190206**; CN 107305815 A 20171031; CN 107305815 B 20201020; ES 2721510 T3 20190801; FR 3050566 A1 20171027; FR 3050566 B1 20190830; RU 2017113462 A 20181019; RU 2017113462 A3 20200316; RU 2720347 C2 20200429; US 10192700 B2 20190129; US 2017309425 A1 20171026

DOCDB simple family (application)

**EP 17167276 A 20170420**; CN 201710253659 A 20170418; ES 17167276 T 20170420; FR 1653554 A 20160421; RU 2017113462 A 20170419; US 201715474226 A 20170330