

Title (en)

Circuit breaker with a reduced size arc chamber

Title (de)

Trennschalter mit einer verkleinerten Lichtbogenlöschkammer

Title (fr)

Dispositif de coupure comportant une chambre d'extinction d'arc de taille réduite

Publication

EP 1764811 A1 20070321 (FR)

Application

EP 06354024 A 20060725

Priority

FR 0509487 A 20050916

Abstract (en)

The device has an arc chute (24) with two parallel flanges placed on sides of a longitudinal mid-plane. The chute has a bottom arcing horn (34) electrically connected to a stationary contact part (20) and extends close to a rear wall. The horn receives an arc root when an arc extends from a stationary contact strip (36) towards the inside of the chute. The chute has a stack of separators (78) with notches extending in the mid-plane and regenerating separators (79) that are placed in a parallel manner and comprise metallic surfaces which cover half of the notches.

IPC 8 full level

H01H 9/36 (2006.01)

CPC (source: EP US)

H01H 9/36 (2013.01 - EP US); **H01H 9/46** (2013.01 - EP US)

Citation (search report)

- [AD] FR 2803687 A1 20010713 - SCHNEIDER ELECTRIC IND SA [FR]
- [A] US 2468422 A 19490426 - WOOD JOSEPH D
- [A] DE 102004002932 A1 20050804 - SIEMENS AG [DE]
- [A] US 1963643 A 19340619 - BRAINARD MAURICE W, et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1764811 A1 20070321; **EP 1764811 B1 20081105**; AT E413686 T1 20081115; CN 1933068 A 20070321; CN 1933068 B 20100804; DE 602006003494 D1 20081218; FR 2891082 A1 20070323; FR 2891082 B1 20071019; US 2007062912 A1 20070322; US 7459652 B2 20081202

DOCDB simple family (application)

EP 06354024 A 20060725; AT 06354024 T 20060725; CN 200610141272 A 20060918; DE 602006003494 T 20060725; FR 0509487 A 20050916; US 51215206 A 20060830