

Title (en)
Air circuit breaker with ARC extinguishing apparatus

Title (de)
Druckluftschalter mit Vorrichtung zur ARC-Unterdrückung

Title (fr)
Disjoncteur à air avec appareil d'extinction d'ARC

Publication
EP 1939904 A3 20090520 (EN)

Application
EP 07024416 A 20071217

Priority
KR 20060139140 A 20061229

Abstract (en)
[origin: EP1939904A2] An air circuit breaker with an arc extinguishing apparatus comprising: a frame having a receiving space (112) therein; a fixed contact (120) disposed inside the frame; a movable contact (130) disposed to be in contact with or separated from the fixed contact; and an extinguishing apparatus (150) which includes a chamber member disposed in the frame and having an outlet (153) formed at one side thereof, a plurality of grids (171) disposed in the chamber member to be spaced apart from one another, and a cloth filter member (180) formed of fabric and disposed between the outlet and the grids to prevent fragments which are generated by arcs from being scattered, whereby the air circuit breaker can be fabricated with low cost, and also fragments generated due to arcs can be prevented from being excessively scattered to the exterior.

IPC 8 full level
H01H 9/34 (2006.01)

CPC (source: EP KR)
H01H 9/342 (2013.01 - EP KR); **H01H 33/04** (2013.01 - KR); **H01H 33/08** (2013.01 - KR); **H01H 2009/347** (2013.01 - EP KR)

Citation (search report)

- [XAY] US 3171936 A 19650302 - JENCKS CHARLES L, et al
- [YX] US 5889249 A 19990330 - RIVAL MARC [FR], et al
- [Y] US 3621169 A 19711116 - HEFT ELDON B, et al

Cited by
CN111092007A; CN102005322A; CN107210149A; CN113646863A; US11869741B2; US10134537B2; WO2016133997A1; WO2020169623A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 07024416 A 20071217; CN 200710305737 A 20071228; KR 20060139140 A 20061229; RU 2007149300 A 20071226