

Title (en)

Vacuum circuit breaker with an arc moved by a permanent magnet

Title (de)

Vakuumleistungsschalter mit durch einen Dauermagneten bewegtem Lichtbogen

Title (fr)

Disjoncteur à vide à arc mouvant par action d'un aimant permanent

Publication

EP 1760744 A1 20070307 (DE)

Application

EP 05405517 A 20050902

Priority

EP 05405517 A 20050902

Abstract (en)

The power switch has switching points containing arc electrodes (10,20), arranged in a vacuum chamber. A magnetic field generator (80) generates magnetic field effecting in a cutting slit (40), independent of the switching current. The generator is arranged such that the magnetic field is aligned perpendicular to the axis, after the discharge of the switching arc arising during the disconnection of the power switch. The electrodes are movable relative to one another along an axis under the formation of a separation gap.

IPC 8 full level

H01H 33/66 (2006.01); **H01H 33/18** (2006.01)

CPC (source: EP)

H01H 33/182 (2013.01); **H01H 33/664** (2013.01); **H01H 3/001** (2013.01)

Citation (search report)

- [X] US 3071667 A 19630101 - LEE THOMAS H
- [A] WO 03041103 A1 20030515 - DAV [FR], et al
- [A] GB 833386 A 19600421 - SIEMENS AG
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 04 31 August 2000 (2000-08-31)

Cited by

EP4300529A1; CN114695015A; DE102012222328A1; DE102012222328B4; EP2485235A1; CN102637548A; CN102683099A; RU2507624C2; US8519812B2; US9502195B2; WO2013177781A1; WO2020059435A1; JP2012164653A

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)

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