

Title (en)

Puffer circuit breaker with reduced puffer volume pressure

Title (de)

Puffer Leistungsschalter mit reduziertem Puffervolumendruck

Title (fr)

Disjoncteur amortisseur de puissance avec pression réduite du volume d'amortissement

Publication

**EP 1926116 B1 20110907 (EN)**

Application

**EP 06405498 A 20061127**

Priority

EP 06405498 A 20061127

Abstract (en)

[origin: EP1926116A1] A circuit breaker comprises a puffer volume (9) and at least one filling valve (16) adapted to allow a flow of gas into the puffer volume (9) upon expansion of the same. The closing member (18) is biased in a direction against the flow of gas exiting from the puffer volume (9) such that the filling valve (16) remains open while the pressure build-up within the puffer volume (9) remains below a given threshold. This allows to keep the pressure in the puffer volume (9) low under low current switching conditions, thereby decreasing the tendency for supersonic flow in the insulating nozzle. It also allows to increase the switching speed and/or to decrease the required drive operating energy.

IPC 8 full level

**H01H 33/90** (2006.01)

CPC (source: EP KR)

**H01H 33/83** (2013.01 - KR); **H01H 33/901** (2013.01 - EP); **H01H 33/82** (2013.01 - EP); **H01H 33/86** (2013.01 - EP); **H01H 2033/908** (2013.01 - EP)

Cited by

CN113690093A; EP2237300A1; FR2944136A1

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

DOCDB simple family (publication)

**EP 1926116 A1 20080528**; **EP 1926116 B1 20110907**; AT E523889 T1 20110915; CN 101256915 A 20080903; CN 101256915 B 20120530; JP 2008135392 A 20080612; KR 101395098 B1 20140515; KR 20080047981 A 20080530

DOCDB simple family (application)

**EP 06405498 A 20061127**; AT 06405498 T 20061127; CN 200710185724 A 20071127; JP 2007303938 A 20071126; KR 20070119927 A 20071122