

Title (en)  
Gas insulated circuit breaker

Title (de)  
Gasisolierter Schutzschalter

Title (fr)  
Système de disjoncteur à isolation gazeuse

Publication  
**EP 2455957 A1 20120523 (EN)**

Application  
**EP 10192018 A 20101122**

Priority  
EP 10192018 A 20101122

Abstract (en)  
A circuit breaking method of a gas-blown circuit breaker (1) comprising an interruption chamber with an arcing zone. An amount of insulating gas is stored and pre-compressed in a second heating volume (25) of the interruption chamber. The second heating volume is fluidly connected with the arcing zone and the first heating volume (13) that is fluidly connected with the arcing zone (9), too. After arc generation the amount of insulating gas in the second heating volume is pressurized by heated insulating gas entering the second heating volume from the arcing zone. The heated insulating gas entering the second heating volume from the arcing zone is guided by a gas guiding means (23) of the second heating volume such that it is suppressed from mixing with the stored amount of insulating gas in the second heating volume by a gas guiding means of the second heating volume.

IPC 8 full level  
**H01H 33/98** (2006.01)

CPC (source: EP)  
**H01H 33/98** (2013.01)

Citation (applicant)  
• US 6163001 A 20001219 - ZEHNDER LUKAS [CH], et al  
• EP 1225610 B1 20090429 - ABB SCHWEIZ AG [CH]  
• US 6163001 A 20001219 - ZEHNDER LUKAS [CH], et al

Citation (search report)  
• [IA] US 4684773 A 19870804 - NIEMEYER LUTZ [CH]  
• [AD] US 6163001 A 20001219 - ZEHNDER LUKAS [CH], et al

Cited by  
CN103000444A; US9305726B2; US9991064B2; US10283253B2; US9343252B2; US9679719B2; US10431963B2; US10971905B2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2455957 A1 20120523; EP 2455957 B1 20140326**; CN 102568921 A 20120711; CN 102568921 B 20160120

DOCDB simple family (application)  
**EP 10192018 A 20101122**; CN 201110463067 A 20111122