

Title (en)  
GAS-INSULATED HIGH-VOLTAGE CIRCUIT BREAKER

Title (de)  
GASISOLIERTER HOCHSPANNUNGS-LEISTUNGSSCHALTER

Title (fr)  
DISJONCTEUR HAUTE TENSION À ISOLATION DANS LE GAZ

Publication  
**EP 2686859 A1 20140122 (DE)**

Application  
**EP 11708497 A 20110317**

Priority  
EP 2011054068 W 20110317

Abstract (en)  
[origin: WO2012123032A1] The gas-insulated high-voltage circuit breaker (1) contains a compression volume (4) and a low-pressure volume (5) as well as a valve (6) which connects the two volumes (4, 5) to one another and by means of which insulating gas flows out of the low-pressure volume (5) into the compression volume (4) when the switch closes and gas flows out of the compression volume (4) in the reverse direction into the low-pressure volume (5) when the switch opens above a threshold value of the gas pressure. A simplified embodiment of the switch whilst saving on component parts is achieved in that at least one hole (71) and at least one leaf spring (7), which is held on one side and is elastically bendable depending on the pressure of the insulating gas in the compression volume (4), are formed into a valve plate (9) of the valve (6). The bending spring (7) closes the hole (71) when the switch closes and unblocks it when the switch opens as soon as the pressure of the compressed insulating gas in the compression volume (4) exceeds the value of the gas pressure in the low-pressure space (5) by at least two bar.

IPC 8 full level  
**H01H 33/90** (2006.01); **H01H 33/91** (2006.01)

CPC (source: EP KR US)  
**H01H 33/86** (2013.01 - US); **H01H 33/90** (2013.01 - KR); **H01H 33/901** (2013.01 - EP US); **H01H 33/91** (2013.01 - EP KR US); **H01H 2033/906** (2013.01 - EP US); **H01H 2033/908** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012123032A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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