

Title (en)  
COMPRESSED GAS CIRCUIT BREAKER

Publication  
**EP 0175209 B1 19900816 (DE)**

Application  
**EP 85111129 A 19850904**

Priority  
CH 450284 A 19840920

Abstract (en)  
[origin: US4633049A] The gas-blast switch preferably suitable for the switching of medium voltage contains two switch pieces (2, 3), which are movable relative to one another in a housing (1), filled with insulating gas, and define an arc-quenching zone (4) during switch-off. Moreover, the arc-quenching zone (4) is defined by an insulating body (8) in which an annular channel (15) is recessed. The annular channel (15) connects the arc-quenching zone (4) with a chamber for the storage of heated-up insulating gas. Additionally compressed insulating gas can be fed to this storage chamber (9) from a compression chamber (10) of a compression device which is actuated during switch-off. In this switch, the switch-off capacity is to be increased by improving the quality of the insulating gas located in the storage chamber (9). This is achieved in that the compression chamber (10) and the storage chamber (9) are connected to one another via a flow narrow point (18). The flow narrow point (18) forces a free jet (19) to form which is composed of cool insulating gas and is directed into the storage chamber (9). This free jet (18) sucks heated-up insulating gas out of the arc-quenching zone (4) and mixes this insulating gas turbulently with the cool insulating gas contained in it, by which means rich insulating gas which is under excess pressure flows into the storage chamber (9).

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**H01H 33/91**

IPC 8 full level  
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