

Title (en)
GAS-BLAST SWITCH

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EP 0163943 B1 19890809 (DE)

Application
EP 85105322 A 19850502

Priority
CH 277284 A 19840607

Abstract (en)
[origin: US4652709A] A gas blast switch, preferably for switching medium voltages, has two cylindrical contacts movable relative to one another along the cylinder axis in a casing filled with extinguishing gas. The contacts are coaxially surrounded by a hot space. The hot space serves to accept extinguishing gas which is heated by a switching arc. The heated extinguishing gas is led, via an annular gap, into the hot space where it is stored to be mixed with fresh extinguishing gas and to thereafter produce effective blasting of the switching arc. The extinguishing gas which is not cooled with a cooling device, still provides gas temperatures which are substantially below the temperature of the heated extinguishing gas. This is achieved in one embodiment by a radially extending annular duct having a width (B) which is small in comparison to the axial longitudinal extension (L) and the radial depth (D) of the hot space. Further, the axial longitudinal extension (L) and the radial depth (D) of the hot space, both measured from the entry or boundary of the annular duct into the hot space, are approximately equal to one another.

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IPC 8 full level
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Cited by
EP0817228A3; EP0290950A1; US4798924A; DE19641550A1; US5905243A; EP0836209A3; EP1780741A1; EP1780741B2

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