

Title (en)
GAS BLAST SWITCH

Publication
EP 0195904 B1 19890920 (DE)

Application
EP 86101492 A 19860205

Priority
CH 88985 A 19850227

Abstract (en)
[origin: ES8701429A1] A switch, preferably for switching medium voltages, includes a structure which creates a gas-blast to quench an arc drawn between two separating contact pieces of the switch. The gas-blast is created solely by the quenching gas which is heated by the arc, without auxiliary pressure creating mechanisms. The gas blast is sufficiently powerful to cut off high and low currents without use of pressure-controlling valves. The result is realized via a flow-off pipe located between a space where the arc develops and a gas exhaust space. One end of the flow-off pipe opens into the exhaust space. The size of the flow-off pipe is determined in part by the speed of propagation of a pressure wave which is formed in the arc space during the heating phase of the arc and the length thereof is deliberately selected such that the pressure gradient between the heated quenching gas and the arc space is maximized.

IPC 1-7
H01H 33/98

IPC 8 full level
H01H 33/98 (2006.01); **H01H 33/985** (2006.01)

CPC (source: EP US)
H01H 33/98 (2013.01 - EP US)

Cited by
US4843199A; DE19928080C5; US6646850B1; US8389886B2; WO2007122064A1; WO0077809A1; US11862420B2; WO2020104123A1; EP1403891B2

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0195904 A1 19861001; EP 0195904 B1 19890920; AU 5380086 A 19860904; DE 3665792 D1 19891026; ES 552497 A0 19861116; ES 8701429 A1 19861116; JP 2573176 B2 19970122; JP S61200634 A 19860905; NO 855379 L 19860828; US 4689453 A 19870825; ZA 861196 B 19860924

DOCDB simple family (application)
EP 86101492 A 19860205; AU 5380086 A 19860220; DE 3665792 T 19860205; ES 552497 A 19860227; JP 4050686 A 19860227; NO 855379 A 19851230; US 83246886 A 19860220; ZA 861196 A 19860218