

Title (en)
HIGH-TENSION CIRCUIT BREAKER

Publication
EP 0067460 B2 19900321 (DE)

Application
EP 82200527 A 19820503

Priority
CH 386081 A 19810612

Abstract (en)
[origin: US4486632A] In a high-voltage power switch having a movable contact and at least one other contact, wherein the contacts define a quenching path in which an arc burns, a piston/cylinder compression device in which fresh quenching gas is condensed, and a heating volume in which quenching gas is stored and compressed by the arc as a result of heating, quenching gas compressed during a switching process is blown into the quenching path and removed through a nozzle into an expansion space. So that the blowing of the arc is nearly independent of the intensity of the current to be interrupted and, in addition, an increase in the quenching capacity can be attained by means of a supply of fresh quenching gas, the movable contact is rigidly connected to the piston, which changes the volume of a compression space. The compression space and the heating volume open into a common annular duct. This annular duct is a part of a mixing device for hot and cold quenching gas and connects the compression space and the heating volume to the quenching path.

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H01H 33/91

IPC 8 full level
H01H 33/90 (2006.01); **H01H 33/915** (2006.01); **H01H 33/18** (2006.01)

CPC (source: EP US)
H01H 33/903 (2013.01 - EP US); **H01H 33/18** (2013.01 - EP US); **H01H 2033/902** (2013.01 - EP US)

Cited by
DE19519721C1; EP0503223A3; FR2518798A1; DE3341930A1; FR2576142A1; EP0752714A1; DE3930548A1; EP0239068A1; FR2596575A1; EP0149470A3; FR2558299A1; US11676785B2; WO2020011695A1

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