

Title (en)
TWO WAY PISTON INTERRUPTER

Title (de)
ZWEIWEGE-KOLBENUNTERBRECHER

Title (fr)
INTERRUPTEUR À PISTON À DEUX VOIES

Publication
EP 3840005 B1 20220921 (EN)

Application
EP 19218993 A 20191220

Priority
EP 19218993 A 20191220

Abstract (en)
[origin: EP3840005A1] A high-voltage self-blast circuit breaker, comprising:an enclosure filled with an interrupting and insulation medium;a contact arrangement held in said enclosure, having first and second contact members being movable relative to each other along an axis during a switching operation, the first contact member comprising a first arcing contact, the second contact member comprising a second arcing contact, the first and second arcing contacts defining an arcing zone therebetween,the first contact member further comprising a heating volume and a nozzle defining a heating channel between the heating volume and the arcing zone;a secondary compression volume configured for being expanded during an opening operation of the high-voltage circuit breaker, and for being compressed during a closing operation of the high-voltage circuit breaker;an inlet check valve arranged between an enclosure volume within the enclosure and the secondary compression volume for allowing a forward flow of the interrupting and insulation medium from the enclosure volume through the inlet check valve into the secondary compression volume during the opening operation of the high-voltage circuit breaker, and for blocking a reverse flow from the secondary compression volume into the enclosure volume during the closing operation of the high-voltage circuit breaker;an outlet check valve arranged between the secondary compression volume and the heating volume for allowing a forward flow of the interrupting and insulation medium from the secondary compression volume through the outlet check valve into the heating volume during the closing operation of the high-voltage circuit breaker, and for blocking a reverse flow from the heating volume into the secondary compression volume during the opening operation of the high-voltage circuit breaker.

IPC 8 full level
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CPC (source: EP)
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