

Title (en)  
SWITCH POLE FOR A POWER CIRCUIT BREAKER

Publication  
**EP 0222073 A3 19881005 (DE)**

Application  
**EP 86111125 A 19860812**

Priority  
DD 28176385 A 19851016

Abstract (en)  
[origin: EP0222073A2] The invention relates to a switch pole for a power circuit breaker which is fitted with a vacuum switching chamber. It is based on an arrangement where the vacuum switching chamber is arranged in an insulating housing. At least two control electrodes are provided in the latter, which surround the vacuum switching chamber and at the same time are pivoted at the potential of the respective adjacent connection of the vacuum switching chamber. The important factor is to make use of potential distribution on the one hand reliably to avoid partial discharges and to maintain the dielectric stress in the dielectric material of the insulating housing within limits, without, on the other hand, adversely affecting the switching capacity of the switching chamber. The invention teaches that the metal screen of the vacuum switching chamber and/or a third control electrode are to be influenced by the design of the two control electrodes such that when the switch is closed they are at full potential and when the switch is open they are at half potential. The arrangement is also suitable for cases where the outer surface of the insulating housing has no earth coating or where a plurality of switch poles are housed in a container which is filled with an insulating gas, e.g. SF6. <IMAGE>

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IPC 8 full level  
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**H01H 33/66207** (2013.01); **H01H 33/24** (2013.01); **H01H 33/66261** (2013.01); **H01H 2033/6623** (2013.01)

Citation (search report)  
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