

Title (en)
ELECTRICAL SWITCHING DEVICE AND PROCESS FOR COOLING A SWITCHING MEDIUM IN AN ELECTRICAL SWITCHING DEVICE

Title (de)
ELEKTRISCHE SCHALTVORRICHTUNG UND VERFAHREN ZUM KÜHLEN EINES SCHALTMEDIUMS IN EINER ELEKTRISCHEN SCHALTVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMUTATION ÉLECTRIQUE ET PROCÉDÉ DE REFROIDISSEMENT D'UN MILIEU DE COMMUTATION DANS UN DISPOSITIF DE COMMUTATION ÉLECTRIQUE

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EP 3338289 A1 20180627 (EN)

Application
EP 16753384 A 20160817

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• EP 2016069538 W 20160817

Abstract (en)
[origin: WO2017032667A1] The invention relates to an electrical switching device with a switching chamber (10), which comprises at least two arcing contacts (192, 192) movable in relation to each other and defining an arcing region (22) in which an arc (20) is formed during a current breaking operation, with the switching chamber (10) being filled with a switching medium (20) for arc quenching and for dielectrical insulation. The switching chamber (10) further comprises an exhaust volume (40, 62) fluidically connected to the arcing region (22) to allow the switching medium heated by the arc (20) to flow out of the arcing region (22) to the exhaust volume (40, 62), thereby transferring heat to a surface area of a metal component of the switching chamber (10). The device is characterized in that at least a portion of a surface contained in the switching chamber (10) is covered with a porous layer (72).

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Citation (search report)
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