

Title (en)
ELECTRICALLY CONDUCTIVE POROUS SINTERING BODY COMPRISING AT LEAST TWO ELECTRICALLY CONDUCTIVE MATERIALS, AND METHOD FOR PRODUCING SAME

Title (de)
ELEKTRISCH LEITFÄHIGER, PORÖSER SINTERKÖRPER MIT ZUMINDEST ZWEI ELEKTRISCH LEITFÄHIGEN MATERIALIEN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
CORPS FRITTÉ POREUX ÉLECTRIQUEMENT CONDUCTEUR COMPRENANT AU MOINS DEUX MATÉRIAUX ÉLECTRIQUEMENT CONDUCTEURS ET SON PROCÉDÉ DE FABRICATION

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Application
EP 21816396 A 20211119

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Abstract (en)
[origin: WO2022106612A1] The invention relates to an evaporator comprising a porous sintering body. The sintering body is made of a composite consisting of at least one first electrically conductive material and at least one second electrically conductive material as well as at least one dielectric material. The sintering body has an open porosity ranging from 10 to 90%, and the dielectric material is selected from the group consisting of crystallizable glass and/or glass ceramic, wherein the first electrically conductive material has a lower electric conductivity than the second electrically conductive material; the content of dielectric material in the composite equals 5 to 70 vol.%; the content of the first electrically conductive material in the composite equals 10 to 90 vol.%; the content of the second electrically conductive material equals 5 to 50 vol.%; and the sintering body has an electrical conductivity ranging from 0.1 to 105 S/m. The invention additionally relates to a method for producing the sintering body and to the use of a porous sintering body in an evaporator.

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Citation (search report)
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