

Title (en)

COPPER POROUS BODY FOR VAPORIZATION MEMBERS, EVAPORATIVE COOLER AND HEAT PIPE

Title (de)

PORÖSER KUPFERKÖRPER FÜR VERDAMPFUNGSELEMENTE, VERDAMPFUNGSKÜHLER UND WÄRMEROHR

Title (fr)

CORPS POREUX EN CUIVRE POUR ÉLÉMENTS DE VAPORISATION, REFROIDISSEUR PAR ÉVAPORATION ET CALODUC

Publication

EP 3708941 A1 20200916 (EN)

Application

EP 18877002 A 20181003

Priority

- JP 2017216634 A 20171109
- JP 2018037085 W 20181003

Abstract (en)

This copper porous body for vaporization members is a copper porous body for vaporization members used as a vaporization member which vaporizes a liquid phase medium that comes into contact with the vaporization member, the copper body is composed of a sintered body of a plurality of copper fibers, and has a stem having a three-dimensional network structure. A porosity is in a range of 65% or more and 95% or less, an opening diameter is in a range of 100 μm or more and 2,000 μm or less, and a standardized specific surface area $S_{\text{D}} = S \times R$ defined as a product of a specific surface area S (m^2/g) and a diameter R (m) of the copper fiber is in a range of 0.001 or more and 0.25 or less.

IPC 8 full level

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CPC (source: EP US)

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Designated extension state (EPC)

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