

Title (en)

A HEAT EXCHANGER AND A METHOD OF TRANSFERRING THERMAL ENERGY

Title (de)

WÄRMETAUSCHER UND VERFAHREN ZUR ÜBERTRAGUNG VON WÄRMEENERGIE

Title (fr)

ÉCHANGEUR DE CHALEUR ET PROCÉDÉ DE TRANSFERT D'ÉNERGIE THERMIQUE

Publication

**EP 4321831 A1 20240214 (EN)**

Application

**EP 22189975 A 20220811**

Priority

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Abstract (en)

The invention relates to a heat exchanger and a method of transferring heat. The heat exchanger comprises a heat transfer interface including a member configured to contact a heat source, wherein the heat transfer interface includes a plurality of deformable heat conducting structures distributed on the surface of the member to be exposed to a flow of heat exchange medium, wherein the structures emerge from said surface and are configured to deform as a function of a local temperature change of the member through thermal contact with the heat source, wherein the structures are adapted to deform differently as a function of said local temperature change depending on its position on the member in the flow direction.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

US 10557671 B2 20200211 - MIRONETS SERGEY [US]

Citation (search report)

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- [X] US 2020408473 A1 20201231 - FRECHETTE LUC [CA], et al
- [A] EP 1936468 A1 20080625 - SIEMENS AG [DE]
- [AD] US 10557671 B2 20200211 - MIRONETS SERGEY [US]

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WO2024098006A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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