

Title (en)

HEAT EXCHANGER HAVING SURFACE ELEMENTS HAVING CONVEX RECESSES AND INTEGRATED MATERIAL THICKENINGS

Title (de)

WÄRMEÜBERTRÄGER MIT OBERFLÄCHENELEMENTEN MIT KONVEXEN AUSSPARUNGEN UND INTEGRIERTEN MATERIALAUFDICKEUNGEN

Title (fr)

ÉCHANGEUR DE CHALEUR COMPRENANT DES ÉLÉMENTS DE SURFACE AYANT DES CAVITÉS CONVEXES ET DES ÉPAISSEMENTS DE MATÉRIAUX INTÉGRÉS

Publication

EP 3850293 B1 20220525 (DE)

Application

EP 19805232 A 20191114

Priority

- DE 102018129788 A 20181126
- EP 2019081270 W 20191114

Abstract (en)

[origin: WO2020109013A1] The invention relates to a heat exchanger, comprising at least one partition and surface elements, which project at least from one side of the partition and enlarge the surface of the partition and around which a fluid can flow. The surface elements having reinforcing beads and planar regions located between the reinforcing beads. The reinforcing beads extend from the partition and have a circular or oval cross-sectional form. The reinforcing beads extend from the partition over at least part of the height of the surface element. The surface elements have a plurality of convex recesses. Each of the convex recesses is arranged in one of the planar regions between two reinforcing beads and extends from an outer edge of the surface element. The vertex of the convex recess lies at a height greater than or equal to 30% and less than or equal to 70% of the total height of the surface element, the height being measured from the partition.

IPC 8 full level

F28F 1/30 (2006.01)

CPC (source: EP)

F28F 1/26 (2013.01); **F28F 1/30** (2013.01); **F28F 2215/10** (2013.01); **F28F 2225/06** (2013.01)

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

DOCDB simple family (publication)

DE 102018129788 B3 20191024; EP 3850293 A1 20210721; EP 3850293 B1 20220525; WO 2020109013 A1 20200604

DOCDB simple family (application)

DE 102018129788 A 20181126; EP 19805232 A 20191114; EP 2019081270 W 20191114