

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 4166883 A1 20230419 (EN)

Application
EP 21203292 A 20211018

Priority
EP 21203292 A 20211018

Abstract (en)
A heat exchanger comprises a multitude of metal plates. Each of the metal plates has two front faces, on at least one of which a fluid channel is disposed. The front face with a fluid channel serves as a side which another metal plate abuts against, so that the at least two metal plates can be appropriately joined with each other by means of their front faces. The at least two joined metal plates are smelted into one piece by being sintered with high heat. Thus, the whole heat exchanger can be assembled well without an additional joining process for the metal plates, such as screwing or welding.

IPC 8 full level
F28F 3/08 (2006.01); **F28F 7/02** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP)
F28D 9/0037 (2013.01); **F28D 9/005** (2013.01); **F28F 3/10** (2013.01); **F28F 7/02** (2013.01); **F28F 21/08** (2013.01); **F28F 2275/06** (2013.01)

Citation (search report)
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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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4166883 A1 20230419

DOCDB simple family (application)
EP 21203292 A 20211018