

Title (en)

HEAT EXCHANGER, IN PARTICULAR FOR A MOTOR VEHICLE, AND PROCESS FOR MANUFACTURING SUCH A HEAT EXCHANGER

Title (de)

WÄRMETAUSCHER, INSBESONDERE FÜR EIN KRAFTFAHRZEUG, UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN WÄRMETAUSCHERS

Title (fr)

ÉCHANGEUR DE CHALEUR NOTAMMENT POUR VÉHICULE AUTOMOBILE ET PROCÉDÉ DE FABRICATION D'UN TEL ÉCHANGEUR DE CHALEUR

Publication

EP 4018146 B1 20240904 (FR)

Application

EP 20760495 A 20200728

Priority

- FR 1909370 A 20190823
- FR 2020051393 W 20200728

Abstract (en)

[origin: WO2021038152A1] The present invention relates to a heat exchanger comprising a bundle (3) for heat exchange between at least a first fluid (F1) and a second fluid (F2), the heat exchange bundle (3) being made up of at least two hollow elements (31) that are superposed and configured to respectively form a channel (35) inside of which the first fluid (F1) is intended to circulate, and to allow the circulation of the second fluid (F2) in a space (37) between the superposed hollow elements (31), at least one hollow element has a plurality of protuberances (5) extending within the space (37) for the circulation of the second fluid (F2), the protuberances (5) creating a link between two adjacent hollow elements (31), and at least a first hollow element (31a) and a second hollow element (31b) arranged facing one another are in fluid communication with one another via at least one hollow protuberance (5).

IPC 8 full level

F28D 1/03 (2006.01); **F28D 1/053** (2006.01); **F28F 1/02** (2006.01); **F28F 3/04** (2006.01); **F28F 9/22** (2006.01); **F28F 9/26** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP)

F28D 1/0391 (2013.01); **F28D 1/05383** (2013.01); **F28F 3/044** (2013.01); **F28F 9/26** (2013.01); **F28F 13/12** (2013.01); **F28F 2001/027** (2013.01); **F28F 2009/226** (2013.01); **F28F 2210/02** (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)

FR 3100058 A1 20210226; **FR 3100058 B1 20220325**; EP 4018146 A1 20220629; EP 4018146 B1 20240904; WO 2021038152 A1 20210304

DOCDB simple family (application)

FR 1909370 A 20190823; EP 20760495 A 20200728; FR 2020051393 W 20200728