

Title (en)  
HEAT EXCHANGER

Title (de)  
WÄRMETAUSCHER

Title (fr)  
ÉCHANGEUR DE CHALEUR

Publication  
**EP 4317883 A1 20240207 (EN)**

Application  
**EP 22188222 A 20220802**

Priority  
EP 22188222 A 20220802

Abstract (en)  
A heat exchanger (100) comprises a first manifold (102), a second manifold (104), and a plurality of first tubes (106) extending between the manifolds (102, 104). Each first tube (106) comprises an axis of elongation, and extends between the manifolds (102, 104) for configuring fluid communication between the manifolds (102, 104). The first tube (106) comprises an outer wall (108) and an inner wall (110), both extending along the axis of elongation of the first tube (106), and at least one first partition (112) located in-between the walls (108, 110). The first partition (112) extends along the axis of elongation, and is configured to fix the inner wall (110) to the outer wall (108). The first tube (106) comprises a first zone (114) delimited between the walls (110, 108) for circulation of first fluid, and a second zone (118) delimited by the inner wall (110) for circulation of second fluid.

IPC 8 full level  
**F28D 1/04** (2006.01); **F28D 7/00** (2006.01); **F28D 7/10** (2006.01)

CPC (source: EP)  
**F25B 39/04** (2013.01); **F28D 1/0443** (2013.01); **F28D 1/0461** (2013.01); **F28D 1/05391** (2013.01); **F28D 7/0066** (2013.01); **F28D 7/10** (2013.01); **F28D 7/103** (2013.01); **F28D 7/106** (2013.01); **F28F 1/022** (2013.01); **F28F 9/0207** (2013.01); **F28F 2275/04** (2013.01)

Citation (search report)  
• [X] US 2022080801 A1 20220317 - CAO LANBAO [CN], et al  
• [X] EP 1788333 A1 20070523 - FORD GLOBAL TECH LLC [US]  
• [X] JP H0510694 A 19930119 - SHOWA ALUMINUM CORP  
• [A] JP H10132425 A 19980522 - DENSO CORP

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)  
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DOCDB simple family (application)  
**EP 22188222 A 20220802**; EP 2023069439 W 20230713