

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 4317884 A1 20240207 (EN)

Application
EP 22188341 A 20220802

Priority
EP 22188341 A 20220802

Abstract (en)
A heat exchanger (100) comprises at least two manifolds (102, 104), and a plurality of tubes (106) extending between the manifolds (102, 104). The manifold (102) comprises a tank member (110) comprising a first set of channels (114A, 114B) terminating at a first free end (122) and a header plate (108) comprising a first set of slots (112A) in conjunction with the channel (114A) defining an inlet manifold (138), a second set of slots (112B) in conjunction with the channel (114B) defining an outlet manifold (140), and a second set of channels (116A, 116B) at a second free end (124). The channels (116A, 116B) aligns with the channels (114A, 114B) to form a first and second port (118, 120). A first and second conduits (126, 128) directly fixed to the first and second port (118, 120), respectively, for introduction of heat exchange fluid into the heat exchanger (100).

IPC 8 full level
F28D 1/053 (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)
F28D 1/05366 (2013.01); **F28D 1/05391** (2013.01); **F28F 9/0221** (2013.01); **F28F 9/0246** (2013.01); **F28F 9/0248** (2013.01); **F28F 9/0256** (2013.01); **F28D 2021/0084** (2013.01)

Citation (search report)
• [XI] US 2014224461 A1 20140814 - BELLENFANT AURELIE [FR], et al
• [X] US 2022099387 A1 20220331 - MAQUIN OLIVIER [FR], et al
• [X] FR 3030710 A1 20160624 - VALEO SYSTEMES THERMIQUES [FR]

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 4317884 A1 20240207

DOCDB simple family (application)
EP 22188341 A 20220802