

Title (en)
A HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 4361548 A1 20240501 (EN)

Application
EP 22203388 A 20221024

Priority
EP 22203388 A 20221024

Abstract (en)
The object of the invention is, among others, a heat exchanger (1) for heat exchange between a first fluid and a second fluid comprising: a first manifold (100) and a second manifold (200) spaced apart from the first manifold (100), wherein the second manifold (200) is substantially parallel with respect to the first manifold (100), a plurality of flat tubes (300) stacked between the first manifold (100) and the second manifold (200), the plurality of flat tubes (300) being configured to provide the fluidal communication between the first manifold (100) and the second manifold (200), a bottle (400) fluidly connected to the first manifold (100), the bottle (400) comprising at least one passage (401) for the fluid, wherein the heat exchanger (1) comprises a first block (10) and a second block (20), both first and second blocks (10, 20) being fluidly connected to the first manifold (100), and at least one third block (30) fluidly connected to the first manifold (100) or the second manifold (200).

IPC 8 full level
F28D 1/053 (2006.01); **F28D 7/16** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)
F28D 1/05375 (2013.01); **F28D 7/1692** (2013.01); **F28F 9/0251** (2013.01); **F28F 2009/0297** (2013.01)

Citation (search report)

- [X] US 2011272130 A1 20111110 - YAMAZAKI MAKOTO [JP]
- [X] US 5884503 A 19990323 - INABA HIROYUKI [JP]
- [X] US 2007062215 A1 20070322 - YAMAZAKI HIDEKAZU [JP], et al
- [X] US 5901573 A 19990511 - KOBAYASHI HIDEO [JP]
- [X] JP 2013002774 A 20130107 - SHARP KK

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4361548 A1 20240501; WO 2024088854 A1 20240502

DOCDB simple family (application)
EP 22203388 A 20221024; EP 2023079026 W 20231018