

Title (en)
AIR COOLED HEAT EXCHANGER

Title (de)
LUFTGEKÜHLTER WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR THERMIQUE À REFROIDISSEMENT À AIR

Publication
EP 4141371 A1 20230301 (EN)

Application
EP 21192542 A 20210823

Priority
EP 21192542 A 20210823

Abstract (en)
An air cooled heat exchanger (1) for cooling a medium, comprising a hollow shell (2) provided with a tube inlet (3) for receiving a medium (M, M') to be cooled and a tube outlet (4) for discharging the medium (M), wherein the shell (2) houses a tube arrangement (5) connecting the tube inlet (3) to the tube outlet (4); wherein the shell (2) is filled with a thermally conductive air permeable material (6) in tight engagement with the tube arrangement (5); wherein the shell (2) is provided with an air inlet (7) for receiving air (A) and an air outlet (8) for discharging the air (A), and wherein the thermally conductive air permeable material (6) fluidly connects the air inlet (7) to the air outlet (8).

IPC 8 full level
F28D 7/14 (2006.01); **F28F 13/00** (2006.01)

CPC (source: EP)
F25J 1/001 (2013.01); **F25J 1/0296** (2013.01); **F28D 7/14** (2013.01); **F28F 13/003** (2013.01); **F28F 21/08** (2013.01); **F25J 2230/04** (2013.01); **F25J 2230/30** (2013.01); **F28D 2021/0047** (2013.01); **F28F 2250/08** (2013.01)

Citation (search report)

- [XYI] US 3415316 A 19681210 - BURNE FREDERICK A, et al
- [X] US 3776303 A 19731204 - ANDERSON G, et al
- [XI] WO 2015079391 A1 20150604 - NCR LOGISTICA S R L [IT]
- [Y] WO 2017080573 A1 20170518 - FRANKE TECHNOLOGY & TRADEMARK [CH]
- [Y] US 2018320957 A1 20181108 - CARDELLA UMBERTO [DE], et al

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 4141371 A1 20230301; EP 4392728 A1 20240703; WO 2023025750 A1 20230302

DOCDB simple family (application)
EP 21192542 A 20210823; EP 2022073382 W 20220823; EP 22765156 A 20220823