

Title (en)

A HEAT EXCHANGER WITH CONTROLLING MEANS

Title (de)

WÄRMETAUSCHER MIT STEUERUNGSMITTELN

Title (fr)

ÉCHANGEUR DE CHALEUR DOTÉ D'UN MOYEN DE COMMANDE

Publication

EP 3819577 A1 20210512 (EN)

Application

EP 19461599 A 20191106

Priority

EP 19461599 A 20191106

Abstract (en)

A heat exchanger 1 comprising a first manifold 2 and a second manifold 3 connected by a bundle of tubes 4, configured to provide an inlet pass 5, an outlet pass 6 and an intermediate pass 7 for a heat exchange fluid, characterized in that the heat exchanger 1 comprises controlling means 50 adapted to switch between a first state, in which co-flow of the heat exchange fluid in the outlet pass 6 and the intermediate pass 7 with counterflow in the inlet pass 5 is enabled, and a second state in which co-flow of the heat exchange fluid in the inlet pass 5 and the intermediate pass 7 with counterflow in the outlet pass 5 is enabled.

IPC 8 full level

F28D 1/053 (2006.01); **F28D 1/04** (2006.01); **F28D 21/00** (2006.01); **F28F 9/02** (2006.01); **F28F 9/22** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP)

F28D 1/0417 (2013.01); **F28F 9/0202** (2013.01); **F28F 9/22** (2013.01); **F28F 13/06** (2013.01); **F28D 2021/0084** (2013.01); **F28F 2250/10** (2013.01)

Citation (applicant)

EP 2933586 A1 20151021 - VALEO SYSTEMES THERMIQUES [FR]

Citation (search report)

- [XI] US 2018274864 A1 20180927 - SONG JUN YOUNG [KR], et al
- [X] GB 2409510 A 20050629 - DELPHI TECH INC [US]
- [X] US 2008023182 A1 20080131 - BEAMER HENRY EARL [US], et al
- [A] US 2015251517 A1 20150910 - HEYL PETER [DE], et al
- [A] JP 2001012823 A 20010119 - BOSCH AUTOMOTIVE SYSTEMS CORP
- [A] US 2007240850 A1 20071018 - HAN SEONGSEOK [KR]

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

DOCDB simple family (publication)

EP 3819577 A1 20210512; WO 2021089324 A1 20210514

DOCDB simple family (application)

EP 19461599 A 20191106; EP 2020079620 W 20201021