

Title (en)
HEAT EXCHANGER WITH RESTRICTOR

Title (de)
WÄRMETAUSCHER MIT DROSSEL

Title (fr)
ÉCHANGEUR DE CHALEUR COMPRENANT UN RESTRICTEUR

Publication
EP 3916332 A1 20211201 (EN)

Application
EP 20461536 A 20200527

Priority
EP 20461536 A 20200527

Abstract (en)
A heat exchanger (100) includes a first and a second tank (10a) and (10b) disposed opposite to each other and heat exchange tubes (14). The first tank (10a) includes an inlet (12a) and an outlet (12b). The heat exchange tubes (14) connect and configure fluid communication between the first tank (10a) and the second tank (10b). The heat exchange tubes include a first set of heat exchange tubes (14a), a second set of heat exchange tubes (14b) and at least one intermediate tube (14c) disposed between them. At least one of the first tank (10a), the second tank (10b) and the at least one intermediate tube (14c) includes a restrictor (16) that prevents fluid communication between the at least one intermediate tube (14c) and the inlet (12a) and the at least one intermediate tube (14c) and the outlet (12b) through the first tank (10a).

IPC 8 full level
F28D 1/053 (2006.01)

CPC (source: EP)
F28D 1/05375 (2013.01); **F28F 2009/226** (2013.01); **F28F 2270/02** (2013.01)

Citation (search report)

- [X1] US 2008308264 A1 20081218 - ANTONIJEVIC DRAGI [YU]
- [XY] EP 3246646 A1 20171122 - VALEO SYSTEMES THERMIQUES [FR]
- [Y] US 2018363987 A1 20181220 - ITOU SHUNJI [JP], et al
- [A] US 2018292138 A1 20181011 - ROBERTS ANDREW [GB], et al
- [A] US 2015330683 A1 20151119 - ALLAN LISA A [US], et al
- [A] WO 2018020136 A1 20180201 - VALEO SYSTEMES THERMIQUES [FR]
- [A] FR 2947331 A1 20101231 - 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

DOCDB simple family (publication)
EP 3916332 A1 20211201; WO 2021239329 A1 20211202

DOCDB simple family (application)
EP 20461536 A 20200527; EP 2021060045 W 20210419