

Title (en)
METHOD FOR EXCHANGING HEAT

Title (de)
VERFAHREN ZUM AUSTAUSCH VON WÄRME

Title (fr)
PROCEDE D'ECHANGE DE CHALEUR

Publication
EP 3830511 B1 20240612 (FR)

Application
EP 19753417 A 20190716

Priority
• FR 1857133 A 20180731
• FR 2019051779 W 20190716

Abstract (en)
[origin: WO2020025873A1] The invention relates to a heat exchanger (E1) comprising a plurality of plates (2) parallel to a longitudinal direction (z) and together defining a first series of passages (10) for the flow of at least one refrigerant (F1) intended to exchange heat with at least one calorogenic fluid (C), at least one passage (10) of the first series defined between two adjacent plates (2) comprising a refrigerant inlet (31) configured to introduce the refrigerant (F1) into a portion (100) of said passage (10) and a refrigerant outlet (41) configured to discharge the refrigerant (F1) from the portion (100). According to the invention, said at least one passage (10) of the first series further comprises at least one other refrigerant inlet (32) configured to introduce another refrigerant (F2) into another portion (200) of said passage (10) and at least one other refrigerant outlet (42) configured to discharge the other refrigerant (F2) from the other portion (200), said other inlets and outlets (32, 42) being arranged so that said at least one passage (10) is divided, in the longitudinal direction (z), into at least said portion (100) and said other portion (200).

IPC 8 full level
F28D 9/00 (2006.01); **F25J 1/00** (2006.01); **F25J 1/02** (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP RU US)
F25J 1/0022 (2013.01 - EP); **F25J 1/0052** (2013.01 - EP); **F25J 1/0214** (2013.01 - EP US); **F25J 1/0262** (2013.01 - EP);
F25J 5/002 (2013.01 - EP US); **F28D 9/0068** (2013.01 - EP US); **F28D 9/0093** (2013.01 - EP RU US); **F25J 1/0022** (2013.01 - US);
F25J 1/0052 (2013.01 - US); **F25J 1/0262** (2013.01 - US)

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

DOCDB simple family (publication)
WO 2020025873 A1 20200206; CN 112601925 A 20210402; EP 3830511 A1 20210609; EP 3830511 B1 20240612; FR 3084739 A1 20200207;
FR 3084739 B1 20200717; JP 2021534362 A 20211209; JP 7399938 B2 20231218; PT 3830511 T 20240729; RU 2755968 C1 20210923;
US 2021164734 A1 20210603

DOCDB simple family (application)
FR 2019051779 W 20190716; CN 201980054689 A 20190716; EP 19753417 A 20190716; FR 1857133 A 20180731;
JP 2021501290 A 20190716; PT 19753417 T 20190716; RU 2021103939 A 20190716; US 201917263231 A 20190716