

Title (en)

EXCHANGER AND/OR REACTOR-EXCHANGER MANUFACTURED IN AN ADDITIVE PROCESS

Title (de)

IN EINEM ADDITIVVERFAHREN HERGESTELLTER AUSTAUSCHER UND/ODER REAKTORAUSTAUSCHER

Title (fr)

ÉCHANGEUR ET/OU ÉCHANGEUR-RÉACTEUR FABRIQUE PAR MÉTHODE ADDITIVE

Publication

EP 3166717 A1 20170517 (FR)

Application

EP 15753963 A 20150630

Priority

- FR 1456623 A 20140709
- FR 2015051784 W 20150630

Abstract (en)

[origin: WO2016005676A1] Disclosed is a reactor-exchanger or an exchanger comprising at least 3 levels, each of which includes at least one region with millimeter channels promoting heat exchange and at least one distribution region upstream and/or downstream of the region with millimeter channels, characterized in that the reactor-exchanger or exchanger is a unit that has no mounting interfaces between the various levels.

IPC 8 full level

B01J 19/00 (2006.01)

CPC (source: CN EP KR US)

B01J 19/0013 (2013.01 - US); **B01J 19/0093** (2013.01 - CN EP KR US); **B01J 19/249** (2013.01 - US); **F28D 9/0081** (2013.01 - US); **F28F 3/12** (2013.01 - US); **B01J 2219/00076** (2013.01 - US); **B01J 2219/00783** (2013.01 - CN EP KR US); **B01J 2219/00822** (2013.01 - CN EP KR US); **B01J 2219/00835** (2013.01 - CN EP KR US); **B01J 2219/00855** (2013.01 - CN EP KR US); **B01J 2219/0086** (2013.01 - CN EP KR US); **B01J 2219/00864** (2013.01 - CN EP KR US); **B01J 2219/00873** (2013.01 - CN EP KR US); **B01J 2219/2462** (2013.01 - US); **B01J 2219/2492** (2013.01 - US); **F28D 2021/0022** (2013.01 - CN EP KR US); **F28D 2021/0078** (2013.01 - CN EP KR US); **F28F 2260/02** (2013.01 - CN EP KR US)

Citation (search report)

See references of WO 2016005676A1

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)

WO 2016005676 A1 20160114; CA 2954447 A1 20160114; CN 106660008 A 20170510; EP 3166717 A1 20170517; FR 3023494 A1 20160115; FR 3023494 B1 20200605; JP 2017527432 A 20170921; JP 6622280 B2 20191218; KR 20170028955 A 20170314; US 2017197196 A1 20170713

DOCDB simple family (application)

FR 2015051784 W 20150630; CA 2954447 A 20150630; CN 201580047047 A 20150630; EP 15753963 A 20150630; FR 1456623 A 20140709; JP 2017500867 A 20150630; KR 20177002782 A 20150630; US 201515324843 A 20150630