

Title (en)
A HYBRID HEAT EXCHANGER

Title (de)
HYBRIDER WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR HYBRIDE

Publication
EP 3739284 A1 20201118 (EN)

Application
EP 19461539 A 20190516

Priority
EP 19461539 A 20190516

Abstract (en)
A hybrid heat exchanger includes a hybrid core that includes a first core formed of a first heat exchange elements and a second core disposed adjacent to the first core and formed of a second heat exchange elements, pair of headers disposed on opposite sides of hybrid core is common for first and second core and pair of tanks common for first and second core. Each header is configured with first and second slots to receive first and second heat exchange elements respectively. Each tank is crimped to corresponding header and is divided into first chamber that along with first slots facilitate distribution of first heat exchange fluid to and collection of first heat exchange fluid from corresponding first core and second chamber that along with second set of slots facilitates distribution of second heat exchange fluid to and collection of second heat exchange fluid from corresponding second core.

IPC 8 full level
F28D 1/04 (2006.01); **F28D 1/053** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)
F28D 1/0435 (2013.01); **F28D 1/05366** (2013.01); **F28F 9/0214** (2013.01); **F28F 9/0226** (2013.01); **F28D 2021/0082** (2013.01); **F28D 2021/0084** (2013.01); **F28D 2021/0085** (2013.01); **F28D 2021/0094** (2013.01); **F28D 2021/0096** (2013.01); **F28F 2009/0292** (2013.01); **F28F 2225/08** (2013.01)

Citation (search report)

- [XY] US 2008078537 A1 20080403 - DESAI SAMEER [US]
- [Y] US 5163507 A 19921117 - JOSHI SHRIKANT M [US]
- [A] WO 2013084472 A1 20130613 - DENSO CORP [JP]
- [A] US 2007277956 A1 20071206 - BERGMILLER JÖRG [DE], et al
- [A] DE 102010053478 A1 20120606 - MODINE MFG CO [US]

Cited by
EP4033189A1; IT202100000920A1

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 3739284 A1 20201118; CN 113825967 A 20211221; WO 2020229491 A1 20201119

DOCDB simple family (application)
EP 19461539 A 20190516; CN 202080036546 A 20200512; EP 2020063227 W 20200512