

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRAGER

Title (fr)
TRANSMETTEUR DE CHALEUR

Publication
EP 2798298 A1 20141105 (DE)

Application
EP 12812663 A 20121221

Priority
• DE 102011090176 A 20111230
• EP 2012076852 W 20121221

Abstract (en)
[origin: WO2013098274A1] The invention relates to a plate-type heat exchanger (1), in particular for motor vehicles, comprising a plurality of plate pairs (20) in order to form first (32), second (36), and third flow paths (39). A spatial region (6) for fourth flow paths is formed between adjacent plate pairs (20), and a plate pair (20) consists of at least one first plate (21) and a second plate (22) in order to form the first flow path (32) and the second flow path (36) between the first (21) and the second plate (22). The first (21) and the second plate (22) are associated with a first attachment plate (24) and a second attachment plate (26), respectively. The third flow path (39) is formed between the first plate (21) and the second attachment plate (26) which is placed on the first plate (21), and the first flow path (32) is formed between the second plate (22) and the first attachment plate (24) which is placed on the second plate (22); or the third flow path is formed between the first plate and the first attachment plate which is placed on the first plate, and the first flow path is formed between the second plate and the second attachment plate which is placed on the second plate.

IPC 8 full level
F28D 1/03 (2006.01); **F28D 1/04** (2006.01); **F28D 20/00** (2006.01)

CPC (source: EP US)
F28D 1/0333 (2013.01 - EP US); **F28D 1/0426** (2013.01 - EP US); **F28D 9/0062** (2013.01 - US); **F28D 2020/0008** (2013.01 - EP US); **F28D 2020/0013** (2013.01 - EP US); **F28D 2021/0085** (2013.01 - EP US)

Citation (search report)
See references of WO 2013098274A1

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 2013098274 A1 20130704; CN 204359165 U 20150527; DE 102011090176 A1 20130704; EP 2798298 A1 20141105; EP 2798298 B1 20160316; US 2014352936 A1 20141204; US 9845997 B2 20171219

DOCDB simple family (application)
EP 2012076852 W 20121221; CN 201290001097 U 20121221; DE 102011090176 A 20111230; EP 12812663 A 20121221; US 201214369057 A 20121221