

Title (en)  
Heat exchanger

Title (de)  
Wärmeübertrager

Title (fr)  
Echangeur de chaleur

Publication  
**EP 2711658 A3 20140910 (DE)**

Application  
**EP 13182842 A 20130903**

Priority  
DE 102012217340 A 20120925

Abstract (en)  
[origin: EP2711658A2] The exchanger (1) has fins which are arranged between the flat tubes (4) that form flow ducts through which a refrigerant is flown. The flat tubes are in fluid communication with a collecting tank (2). The refrigerant is made to flow into an inflow region (3) of the tank which is in fluid communication with the flow duct. A refrigerant passage (6) is provided from a line (5,5a) to the inflow region of tank. The passage is arranged in the middle area of the inflow region of tank where the middle area is provided in relation to direction oriented perpendicularly to a plane of the tubes.

IPC 8 full level  
**F28D 1/053** (2006.01); **F28F 1/12** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)  
**F28D 1/05375** (2013.01 - EP US); **F28F 1/12** (2013.01 - US); **F28F 9/0209** (2013.01 - EP US); **F28F 9/027** (2013.01 - EP US)

Citation (search report)

- [X] WO 2010005676 A2 20100114 - CARRIER CORP [US], et al
- [X] US 2011139422 A1 20110616 - ODDI FREDERICK VINCENT [US], et al
- [X] JP H06159983 A 19940607 - SHOWA ALUMINUM CORP
- [X] EP 2375209 A2 20111012 - DELPHI TECH INC [US]
- [X] EP 2278246 A2 20110126 - DANFOSS SANHUA HANGZHOU MICRO [CN]
- [X] EP 2362176 A2 20110831 - DANFOSS SANHUA HANGZHOU MICRO [CN]
- [X] CN 201909576 U 20110727 - DANFOSS SANHUA HANGZHOU MICRO
- [X] WO 2012034438 A1 20120322 - DANFOSS SANHUA HANGZHOU MICRO [CN], et al
- [X] EP 2299224 A2 20110323 - DANFOSS SANHUA HANGZHOU MICRO [CN]

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 2711658 A2 20140326; EP 2711658 A3 20140910**; CN 203657589 U 20140618; DE 102012217340 A1 20140327; US 2014083665 A1 20140327; US 9709338 B2 20170718

DOCDB simple family (application)  
**EP 13182842 A 20130903**; CN 201320590869 U 20130923; DE 102012217340 A 20120925; US 201314036452 A 20130925