

Title (en)
Heat exchanger

Title (de)
Wärmeübertrager

Title (fr)
Echangeur de chaleur

Publication
EP 1248063 B1 20060628 (DE)

Application
EP 02006050 A 20020316

Priority
DE 10115513 A 20010328

Abstract (en)
[origin: EP1248063A1] Heat exchanger, especially an evaporator in an air-conditioning system of a motor vehicle, used for transferring heat between a first and a second heat medium comprises a number of flat tubes (4, 4") forming a block through which the first heat medium flows. The flat tubes are arranged in parallel so that channels for the second heat medium (3) entering at one end (6) of the block are formed in between adjacent flat tubes. The flat tubes extend in the direction of the block depth (t) at least over a partial section at an angle (alpha) to the end surface of the block. Preferred Features: The angle is about 25-65, preferably 45 degrees . The flat tubes have an angled or rounded undulating cross-section. The flat tubes are made by extruding a light-weight sheet metal, especially aluminum or an aluminum alloy.

IPC 8 full level
F28D 1/053 (2006.01); **F28F 1/02** (2006.01); **F28F 1/26** (2006.01); **F28F 3/04** (2006.01)

CPC (source: EP)
F28D 1/05391 (2013.01); **F28F 1/022** (2013.01); **F28F 1/26** (2013.01); **F28F 3/04** (2013.01); **F28D 2021/0085** (2013.01)

Cited by
EP2407743A3; FR3104690A1; US11662148B2; WO2019026239A1; WO2021116577A1; WO2005073655A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1248063 A1 20021009; EP 1248063 B1 20060628; AT E331928 T1 20060715; DE 10115513 A1 20021010; DE 50207351 D1 20060810

DOCDB simple family (application)
EP 02006050 A 20020316; AT 02006050 T 20020316; DE 10115513 A 20010328; DE 50207351 T 20020316