

Title (en)

Header arrangement for holding side plates and maintaining constant pressing of outer fins

Title (de)

Sammlerausbau zum Halten der Kernabdeckung und zum Beibehalten einer konstanten Verpressung an den äusseren Lamellen

Title (fr)

Montage d'une chambre de distribution pour supporter les joues latérales et maintenir un pressage constant des ailettes extérieures

Publication

EP 1754946 A3 20120829 (DE)

Application

EP 06017134 A 20060817

Priority

US 20628905 A 20050818

Abstract (en)

[origin: EP1754946A2] The heat exchanger collector has a collector tube (10) with a number of openings for heat exchanger tubes (120, 125) and a number of protrusions (30) on the end of the collector tube for holding an end element. The protrusions form an opening, e.g. a semicircular opening, at each end of the collector tube : Independent claims are also included for (A) an air conditioning system (B) and a motor vehicle with a heating and air conditioning system with a heat exchanger.

IPC 8 full level

F28F 9/00 (2006.01); **F28D 1/053** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)

F28D 1/05366 (2013.01 - EP US); **F28F 9/001** (2013.01 - EP US); **F28F 9/0243** (2013.01 - EP US); **F28D 2021/0084** (2013.01 - EP US); **F28F 2265/26** (2013.01 - EP US)

Citation (search report)

- [XY] JP 2003004395 A 20030108 - ZEXEL VALEO CLIMATE CONTR CORP
- [X] DE 69616877 T2 20020411 - DELPHI TECH INC [US]
- [X] DE 69820822 T2 20040701 - DELPHI TECH INC [US]
- [XD] DE 19814827 A1 19991007 - BEHR GMBH & CO [DE]
- [YA] EP 0840082 A1 19980506 - VALEO THERMIQUE MOTEUR SA [FR]
- [Y] US 5992514 A 19991130 - SUGIMOTO TATSUO [JP], et al
- [A] JP H05248783 A 19930924 - NIPPON DENSO CO

Cited by

US11668532B2; US12042945B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1754946 A2 20070221; **EP 1754946 A3 20120829**; **EP 1754946 B1 20150722**; US 2007039723 A1 20070222

DOCDB simple family (application)

EP 06017134 A 20060817; US 20628905 A 20050818