

Title (en)

Heat exchanger, more particularly charged air cooler

Title (de)

Wärmetauscher, insbesondere Ladeluftkühler

Title (fr)

Echangeur de chaleur, en particulier refroidisseur d'air de suralimentation

Publication

EP 1795847 A3 20121017 (DE)

Application

EP 06024366 A 20061124

Priority

DE 102005058769 A 20051209

Abstract (en)

[origin: EP1795847A2] The heat exchanger has flat pipes (1), and corrugated ribs (2). A connecting plate (5) fixes the heat exchanger or intercooler in a housing, where individual parts of the intercooler are soldered with each other. A set of manifolds (3.2 - 3.4) is provided, and flat pipes-corrugated ribs rows are arranged consecutively in a flow direction of supercharged air. The plate is arranged at a front side of the manifolds.

IPC 8 full level

F28D 7/16 (2006.01); **F02B 29/04** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP US)

F28D 7/1623 (2013.01 - EP US); **F28D 7/1692** (2013.01 - EP US); **F28F 9/26** (2013.01 - EP US); **F28F 21/084** (2013.01 - EP US); **F28D 2021/0082** (2013.01 - EP US); **F28F 2280/06** (2013.01 - EP US)

Citation (search report)

- [XY] EP 0762072 A2 19970312 - MODINE MFG CO [US] & DE 69613918 T2 20011108 - MODINE MFG CO [US]
- [Y] EP 1088689 A2 20010404 - DENSO CORP [JP]
- [Y] AU 674925 B2 19970116 - SANDEN CORP
- [Y] US 2002139520 A1 20021003 - PINTO ARCHIBALD E [US]
- [A] EP 1296108 A2 20030326 - BEHR GMBH & CO [DE]

Cited by

CN102062549A; CN113776374A; CN104937364A; FR3019641A1; CN106460637A; US10247481B2; WO2015149950A1; WO2014116351A1; WO2012080113A1; DE102010063264A1; US10337799B2; EP2466089A2; DE102010063265A1; US8857415B2

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 1795847 A2 20070613; **EP 1795847 A3 20121017**; DE 102005058769 A1 20070614; DE 102005058769 B4 20161103; US 2007193731 A1 20070823; US 7793710 B2 20100914

DOCDB simple family (application)

EP 06024366 A 20061124; DE 102005058769 A 20051209; US 63451306 A 20061206