

Title (en)

Heat exchanger, more particularly supercharge air cooler, for automotive vehicle

Title (de)

Wärmeübertrager, insbesondere Ladeluftkühler, für ein Kraftfahrzeug

Title (fr)

Echangeur de chaleur, en particulier radiateur d'air de suralimentation, pour véhicule automobile

Publication

EP 0864839 A2 19980916 (DE)

Application

EP 98103324 A 19980226

Priority

- DE 19709909 A 19970311
- DE 19722100 A 19970527

Abstract (en)

The heat exchanger has a ribbed block of tubes located between two flow boxes. Each flow box (3) is assembled from at least two shell elements which are brought together tightly in a longitudinal plane of the block (2). The boxes are each joined by a union to a flow circuit. Each box is designed to be bulbous towards the end in a flow region of the flow medium by curved walls with large radii from the union (8). Each box is assembled from two half shells serving as shell elements. Two half shells each have a jointing flange along their edges.

Abstract (de)

Bekannte Wärmeübertrager weisen Kühlmittelkästen auf, die aufgrund der Begrenzung ihrer Ziehtiefe lediglich eingeschränkt strömungstechnischen Anforderungen entsprechen können. Erfindungsgemäß ist jeder Strömungsmittelkasten aus wenigstens zwei Schalenelementen aufgebaut, die in einer Längsebene des Rippenrohrblockes dicht zusammengefügt sind. Ladeluftkühler. <IMAGE>

IPC 1-7

F28F 9/02

IPC 8 full level

F28D 1/053 (2006.01); **F28F 9/02** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP)

F28D 1/05366 (2013.01); **F28F 9/02** (2013.01); **F28F 9/0246** (2013.01); **F28D 2021/0082** (2013.01); **F28D 2021/0094** (2013.01)

Citation (applicant)

- EP 0676608 A1 19951011 - VALEO ENGINE COOLING AB [SE]
- DE 19543986 A1 19970528 - BEHR GMBH & CO [DE]

Cited by

EP1923653A1; CN104364599A; EP2474805A1; WO2014003880A1; WO2006050982A1

Designated contracting state (EPC)

DE FR

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EP 0864839 A2 19980916; **EP 0864839 A3 19990421**; **EP 0864839 B1 20020206**; JP 3996258 B2 20071024; JP H10292996 A 19981104

DOCDB simple family (application)

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