

Title (en)
Heat exchanger with diffuser

Title (de)
Wärmetauscher mit einem Diffusor

Title (fr)
Echangeur de chaleur avec diffuseur

Publication
EP 1376043 A3 20080528 (DE)

Application
EP 03007724 A 20030404

Priority
DE 10229083 A 20020628

Abstract (en)
[origin: EP1376043A2] Engine cooling fluid flows through the heat exchanger to extract heat from the exhaust gas. The diffuser surrounds the rectangular-section tube (2) through which the exhaust gas flows and the tube has a wall (3) separating the exhaust gas from the cooling fluid. The tube has a lining dividing it into two channels (2a,2b). The channels are in contact along one of their broad sides (15) and contain baffles (26). The lining is supported by the inner surface (5) of the tube and is made of sections pinched together by pinched groove regions (6,7) in the tube.

IPC 8 full level
F28F 9/02 (2006.01); **F28D 9/00** (2006.01); **F28F 3/02** (2006.01)

CPC (source: EP)
F28D 9/0043 (2013.01); **F28F 9/0219** (2013.01); **F28F 9/0221** (2013.01); **F28D 21/0003** (2013.01); **F28F 3/025** (2013.01); **F28F 2235/00** (2013.01); **F28F 2250/108** (2013.01); **F28F 2275/14** (2013.01)

Citation (search report)

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- [A] DE 4031436 A1 19920409 - BAVARIA ANLAGENBAU GMBH [DE]
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- [A] DE 19927607 A1 20001221 - BEHR GMBH & CO [DE]
- [A] JP 2000220987 A 20000808 - TOKYO RADIATOR SEIZO KK
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

Designated extension state (EPC)
AL LT LV MK RO

DOCDB simple family (publication)
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EP 03007724 A 20030404; DE 10229083 A 20020628