

Title (en)

INTEGRATED HEAT EXCHANGER FOR A VEHICLE

Title (de)

INTEGRIERTER WÄRMETAUSCHER FÜR EIN FAHRZEUG

Title (fr)

ÉCHANGEUR DE CHALEUR INTÉGRÉ POUR UN VÉHICULE

Publication

EP 2792988 A4 20151021 (EN)

Application

EP 12858280 A 20121119

Priority

- KR 20110133946 A 20111213
- KR 2012009779 W 20121119

Abstract (en)

[origin: EP2792988A1] Disclosed is an integrated heat exchanger for a vehicle, in which an exhaust gas heat exchanging part (exhaust gas recirculation (EGR) cooler) and an oil heat exchanging part (oil cooler) are integrated to be able to optimize the use of a space within the vehicle.

IPC 8 full level

F01M 5/00 (2006.01); **F01P 3/20** (2006.01); **F28D 7/16** (2006.01); **F28D 9/00** (2006.01); **F28D 21/00** (2006.01); **F28F 3/08** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP KR)

F01M 5/00 (2013.01 - KR); **F01M 5/001** (2013.01 - EP); **F01M 5/002** (2013.01 - EP); **F01P 3/20** (2013.01 - KR); **F28D 7/0066** (2013.01 - EP); **F28D 7/1692** (2013.01 - EP); **F28D 9/00** (2013.01 - KR); **F28D 9/005** (2013.01 - EP); **F28D 9/0093** (2013.01 - EP); **F28D 21/0003** (2013.01 - EP); **F28F 3/08** (2013.01 - KR); **F28F 9/26** (2013.01 - EP); **F01P 2060/045** (2013.01 - EP); **F01P 2060/08** (2013.01 - EP); **F01P 2060/16** (2013.01 - EP); **F28D 2021/0089** (2013.01 - EP); **F28F 9/002** (2013.01 - EP); **F28F 2280/06** (2013.01 - EP)

Citation (search report)

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- [A] DE 102006023809 B3 20070913 - PIERBURG GMBH [DE]
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- [A] EP 1099847 A2 20010516 - ISUZU MOTORS LTD [JP]
- [A] JP H10281015 A 19981020 - CALSONIC CORP
- [A] JP 2008045477 A 20080228 - MAHLE FILTER SYSTEMS JP CORP
- See references of WO 2013089357A1

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EP3141861A1; FR3134882A1; WO2023202842A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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