

Title (en)
EXHAUST GAS HEAT EXCHANGER

Title (de)
ABGAS-WÄRMETAUSCHER

Title (fr)
ECHANGEUR THERMIQUE DE GAZ D'ECHAPPEMENT

Publication
EP 1411315 A4 20091028 (EN)

Application
EP 02751694 A 20020725

Priority
• JP 0207566 W 20020725
• JP 2001224651 A 20010725
• JP 2001350437 A 20011115

Abstract (en)
[origin: EP1411315A1] An exhaust gas heat exchanger, comprising first wings (111c) projected in a first direction orthogonal to the circulating direction of EGR gas and second wings projected in a direction orthogonal to the circulating direction of the EGR gas and different from the first direction provided on the inside of an inner fin (111), wherein, since the EGR gas flows macroscopically in an exhaust gas passage (110a) while meandering in the direction (D1) orthogonal to the longitudinal direction (D0) of the exhaust gas passage after colliding with the wing.

IPC 1-7
F28F 3/06; **F02M 25/07**

IPC 8 full level
F02M 25/07 (2006.01); **F28D 1/06** (2006.01); **F28D 7/16** (2006.01); **F28F 3/02** (2006.01); **F28F 3/06** (2006.01); **F28F 3/08** (2006.01); **F28F 13/12** (2006.01); **F28F 19/01** (2006.01)

CPC (source: EP)
F02M 26/32 (2016.02); **F28D 7/16** (2013.01); **F28D 7/1684** (2013.01); **F28F 3/027** (2013.01); **F28F 13/12** (2013.01); **F28D 21/0003** (2013.01)

Citation (search report)
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• [X] US 4984626 A 19910115 - ESFORMES JACK L [US], et al
• [X] JP H08271167 A 19961018 - SHOWA ALUMINUM CORP
• [A] DE 19654363 A1 19980625 - BEHR GMBH & CO [DE]
• [A] DE 19654367 A1 19980625 - BEHR GMBH & CO [DE]
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