

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)

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