

Title (en)  
Heat exchanger

Title (de)  
Wärmetauscher

Title (fr)  
Echangeur de chaleur

Publication  
**EP 1146307 A3 20040121 (EN)**

Application  
**EP 01303404 A 20010411**

Priority  
GB 0009380 A 20000414

Abstract (en)  
[origin: EP1146307A2] A cast monoblock heat exchanger (1) has heat exchange fins (5) that span the gap between opposed walls of primary heat exchange passageways (4). The fin (5) arrangement maximises the fin (5) surface area to improve heat exchange efficiency and increases structural rigidity and the transfer of stresses caused by the expansion and contraction of the heat exchanger (1) during use. <IMAGE>

IPC 1-7  
**F28F 7/02**

IPC 8 full level  
**F28F 3/04** (2006.01); **F28F 7/02** (2006.01)

CPC (source: EP)  
**F28F 3/048** (2013.01); **F28F 7/02** (2013.01)

Citation (search report)

- [X] EP 0971179 A1 20000112 - HOLDING J H DECKERS N V [AN]
- [X] NL 1009225 C1 19991124 - BRABANT ALUCAST PRODUCTS B V [NL]
- [X] DE 19809859 A1 19990909 - MANN & HUMMEL FILTER [DE]
- [X] GB 2000268 A 19790104 - ASS ENG LTD

Cited by  
ITBO20100636A1; WO2012052977A3

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1146307 A2 20011017; EP 1146307 A3 20040121; GB 0009380 D0 20000531**

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