

Title (en)  
Heat exchanger with multiple tube bundles

Title (de)  
Mehrfachrohrbündel-Wärmeaustauscher

Title (fr)  
Echangeur de chaleur à multiple faisceaux de tubes

Publication  
**EP 1139055 A3 20020116 (DE)**

Application  
**EP 01105969 A 20010310**

Priority  
• DE 10015717 A 20000329  
• DE 10018392 A 20000413

Abstract (en)  
[origin: EP1139055A2] The multiple pipe bundle heat exchanger has a housing (1,2,3) in which a multiplicity of pipe bundles (5A,5B,5C) are installed between axially opposing pipe bases. The housing is divided by walls (14) into chambers (10A,10B,10C) corresponding in number to the quantity of pipe bundles. The pipe bundles are formed as independent assembly groups comprising the heat exchange pipes (51) and pipes bases (52) fixed at their two axial ends. The housing consists of the cover part (1) and the dividing walls (14) forming the chambers. At both axial ends it has flanges (13) to which are fixed head pieces (2,3).

IPC 1-7  
**F28F 9/22**; **F28D 7/16**; **F28F 9/00**

IPC 8 full level  
**F28F 9/02** (2006.01); **F28D 7/00** (2006.01); **F28D 7/16** (2006.01); **F28F 9/22** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP US)  
**F28D 7/0066** (2013.01 - EP US); **F28D 7/0075** (2013.01 - EP US); **F28F 9/22** (2013.01 - EP US); **F28F 9/26** (2013.01 - EP US)

Citation (search report)  
• [A] US 4089369 A 19780516 - LIPETS ADOLF USHEROVICH, et al  
• [A] EP 0650025 A1 19950426 - TETRA LAVAL HOLDINGS & FINANCE [CH]  
• [A] EP 0628779 A2 19941214 - ATLAS COPCO AIRPOWER NV [BE]  
• [A] WO 9105633 A1 19910502 - CASTERLINE RICHARD [US]  
• [A] EP 0930429 A2 19990721 - STEYR NUTZFAHRZEUGE [AT]  
• [A] US 3863708 A 19750204 - GRIMES GEORGE R  
• [A] GB 308715 A 19300519 - GRISCOM RUSSELL CO  
• [A] GB 598310 A 19480216 - JOHN HOGG ROBERTSON  
• [DA] DE 2507870 A1 19750904 - HAUGUSTAIN FERNAND & CH 586882 A5 19770415 - HAUGUSTAIN FERNAND

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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