

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 A2 20011004 (DE)

Application
EP 01105969 A 20010310

Priority
• DE 10015717 A 20000329
• DE 10018392 A 20000413

Abstract (en)
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).

Abstract (de)
Rohrbündelwärmeaustauscher mit mehreren Rohrbündeln (5A, 5B, 5C), die jeweils mit zugehörigen Rohrböden (52) eine selbständige Baugruppe bilden, und dessen Gehäuse einen Mantelteil (1), das in einzelnen Kammern (10A, 10B, 10C) jeweils eine Rohrbündelbaugruppe aufnimmt, und separaten Kopfteilen (2, 3) besteht, die mit den Rohrböden (52) der Rohrbündelbaugruppen dichtend zusammenwirken. <IMAGE>

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)

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 1139055 A2 20011004; **EP 1139055 A3 20020116**; **EP 1139055 B1 20021009**; AT E225927 T1 20021015; BR 0101236 A 20011030; BR 0101236 B1 20090113; CA 2342425 A1 20010929; CA 2342425 C 20050517; CN 1147681 C 20040428; CN 1316624 A 20011010; DK 1139055 T3 20030127; ES 2184719 T3 20030416; JP 2001296092 A 20011026; JP 3605371 B2 20041222; PT 1139055 E 20030228; US 2001045273 A1 20011129

DOCDB simple family (application)
EP 01105969 A 20010310; AT 01105969 T 20010310; BR 0101236 A 20010329; CA 2342425 A 20010328; CN 01112128 A 20010329; DK 01105969 T 20010310; ES 01105969 T 20010310; JP 2001093582 A 20010328; PT 01105969 T 20010310; US 82203201 A 20010329