

Title (en)
Heat exchanger with connecting element

Title (de)
Wärmetauscher mit einem Verbindungsstück

Title (fr)
Echangeur de chaleur avec élément de connection

Publication
EP 0994322 B1 20030820 (DE)

Application
EP 99119580 A 19991002

Priority
DE 19847770 A 19981016

Abstract (en)
[origin: EP0994322A2] Guide channels (10) inside the end section (9) of the connector piece (3) branch off in a star shape from the inlet part (8) of the piece. The cooled pipes (4) are set in a base (6) and arranged to form a partial circuit, into which the guide channels lead. The connector piece has a cylindrical inlet part connected to the uncooled pipe (2), which widens out into an end section containing guide channels running coaxial to one of the cooled pipes and leading away from the inlet part.

IPC 1-7
F28F 9/26; **F16L 59/18**

IPC 8 full level
F16L 41/03 (2006.01); **F16L 59/18** (2006.01); **F28D 1/04** (2006.01); **F28F 1/00** (2006.01); **F28F 9/02** (2006.01); **F28F 9/26** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP KR US)
F28D 1/04 (2013.01 - KR); **F28F 9/02** (2013.01 - EP US); **F28F 9/0275** (2013.01 - EP US); **F28F 9/26** (2013.01 - EP US)

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

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EP 0994322 A2 20000419; **EP 0994322 A3 20001220**; **EP 0994322 B1 20030820**; AT E247815 T1 20030915; DE 19847770 A1 20000420; DE 59906655 D1 20030925; ES 2207098 T3 20040516; JP 2000121267 A 20000428; JP 4289740 B2 20090701; KR 100603854 B1 20060724; KR 20000028950 A 20000525; PT 994322 E 20040130; US 6202740 B1 20010320

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