

Title (en)  
Cooler

Title (de)  
Kühler

Title (fr)  
Refroidisseur

Publication  
**EP 0961095 B1 20041013 (DE)**

Application  
**EP 99109060 A 19990507**

Priority  
DE 19824026 A 19980529

Abstract (en)  
[origin: EP0961095A2] The coolant tubes are flat (8) and the componetns joining them to one another are formed as disks (6), which have a breakthrough, via which they are connected to the inner space of the flat tubes. The flat tubes, at least at one face-side end, are closed. They have turbulence inserts and on their inside and/or outside are plated with solder.

IPC 1-7  
**F28D 1/053**; **F28F 3/02**

IPC 8 full level  
**F28D 1/03** (2006.01); **F28D 1/053** (2006.01); **F28F 3/02** (2006.01); **F28F 9/02** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP)  
**F28D 1/0375** (2013.01); **F28D 1/05358** (2013.01); **F28F 9/0221** (2013.01); **F28F 13/12** (2013.01)

Cited by  
DE102009033217A1; DE102008053308A1; FR2859779A1; EP1712864A1; EP2180282A3; US8636836B2; US8778063B2; US8607853B2; WO2005045342A1; WO2006072774A1; EP2180282A2; WO2011006771A2; WO2021254657A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0961095 A2 19991201**; **EP 0961095 A3 20001108**; **EP 0961095 B1 20041013**; DE 19824026 A1 19991202; DE 59910800 D1 20041118

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