

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)
BE DE FR GB IT

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

DOCDB simple family (application)
EP 99109060 A 19990507; DE 19824026 A 19980529; DE 59910800 T 19990507