

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Echangeur de chaleur

Publication
EP 1703227 A3 20120530 (DE)

Application
EP 06004561 A 20060307

Priority
DE 102005012235 A 20050315

Abstract (en)
[origin: EP1703227A2] The exchanger has two coils (20, 30), which are made from heat conducting material. The coils have same coil distance, where mutual offset of the coaxially arranged coils amounts to a half of the coil distance, so that the windings of the coils radially overlap one another. An axial coil distance and a diagonal gap between the coils are fixed by a spacer. A deflector plate divides volume bounded by the coils in to two partial volumes. Independent claims are also included for the following: (1) a method of operating a heat exchanger (2) a method of manufacturing a heat exchanger.

IPC 8 full level
F24H 1/43 (2006.01); **F28D 7/00** (2006.01); **F28D 7/02** (2006.01); **F28F 9/013** (2006.01)

CPC (source: EP)
F24H 1/43 (2013.01); **F28D 7/0066** (2013.01); **F28D 7/024** (2013.01); **F28F 9/0132** (2013.01); **F28F 2210/04** (2013.01)

Citation (search report)

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- [XYI] US 4901677 A 19900220 - DEMETRI ELIA P [US]
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- [XI] EP 0344351 A1 19891206 - VIA GMBH [DE]
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1703227 A2 20060920; EP 1703227 A3 20120530; EP 1703227 B1 20150225; DK 1703227 T3 20150526; ES 2536445 T3 20150525

DOCDB simple family (application)
EP 06004561 A 20060307; DK 06004561 T 20060307; ES 06004561 T 20060307