

Title (en)  
CONVECTIONAL HEAT EXCHANGER

Title (de)  
KONVEKTIONSWÄRMETAUSCHER

Title (fr)  
ECHANGEUR THERMIQUE PAR CONVECTION

Publication  
**EP 1062470 A1 20001227 (EN)**

Application  
**EP 99906584 A 19990309**

Priority  
• PL 9900006 W 19990309  
• PL 32522498 A 19980310

Abstract (en)  
[origin: WO9946548A1] This convectional heat exchanger is structured of tube (1) inside which there is an inner medium. There are two ends of the tube operating as an inlet and an outlet of the inner medium, if that medium is forced to flow. This tube is bent into a spiral shape at the same time with its heat exchanging element (2) which is formed of at least one flat (5) and two corrugated (3 and 4) strips occurring alternatively. The outer band (7) being an extension of the flat strip ensures permanent reciprocal contact in the tangent places of the tube and the strips.

IPC 1-7  
**F28D 7/04**; **F28F 1/12**; **F28D 1/047**

IPC 8 full level  
**F28D 1/047** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP)  
**F28D 1/0473** (2013.01); **F28F 1/126** (2013.01)

Citation (search report)  
See references of WO 9946548A1

Designated contracting state (EPC)  
DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**WO 9946548 A1 19990916**; **WO 9946548 B1 19991125**; AU 2644599 A 19990927; EP 1062470 A1 20001227; PL 190383 B1 20051230; PL 325224 A1 19990913

DOCDB simple family (application)  
**PL 9900006 W 19990309**; AU 2644599 A 19990309; EP 99906584 A 19990309; PL 32522498 A 19980310