

Title (en)  
ANNULAR RECUPERATIVE HEAT EXCHANGER

Publication  
**EP 0071781 B1 19850109 (DE)**

Application  
**EP 82106236 A 19820713**

Priority  
DE 3131091 A 19810806

Abstract (en)  
[origin: US4527622A] A ring-shaped recuperative heat exchanger, for instance for small gas turbines, having axial channels for the exhaust gas system with increasing channel width over the diameter thereof, and having guide plates in a wavy shape for increasing the surface thereof. In an embodiment as a parallel flow or counterflow heat exchanger, the air supply channels are constructed in an identical or similar manner, with a separation of the channels from each other being effected by radially disposed intermediate plates. In a construction as a crossflow heat exchanger, the air conveying channels are formed by wavy shaped guide plates having constant wave height and wave width in a radial alignment. The separation between hot gas and air conveying channels is again effected by additional approximately radially disposed intermediate plates.

IPC 1-7  
**F28D 9/00**

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 3/02** (2006.01)

CPC (source: EP US)  
**F28D 9/0018** (2013.01 - EP US); **F28F 3/025** (2013.01 - EP US); **F28F 2250/108** (2013.01 - EP US); **Y10S 165/358** (2013.01 - EP US)

Cited by  
US4527622A; EP3839398A1; NL1025958C2; EP1022533A4; US6374910B2; US11333452B2; US11781821B2

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

DOCDB simple family (publication)  
**EP 0071781 A1 19830216; EP 0071781 B1 19850109; DE 3131091 A1 19830224; DE 3261848 D1 19850221; US 4527622 A 19850709**

DOCDB simple family (application)  
**EP 82106236 A 19820713; DE 3131091 A 19810806; DE 3261848 T 19820713; US 40538682 A 19820805**