

Title (en)  
High effectiveness gas to gas heat exchangers

Title (de)  
Hocheffektiver Gas-zu-Gas-Wärmetauscher

Title (fr)  
Échangeurs de chaleur gaz/gaz haute efficacité

Publication  
**EP 2607830 A1 20130626 (EN)**

Application  
**EP 11194253 A 20111219**

Priority  
EP 11194253 A 20111219

Abstract (en)  
A recuperator (100) comprising: a heat exchange assembly comprising a plurality of heat exchange plates (200); an inlet for a first fluid (101), and an outlet for said first fluid (102); an inlet for a second fluid (103) and an outlet for said second fluid (104); a plurality of first fluid channels, extending along a plurality of first paths between the inlet for the first fluid (101) and the outlet for the first fluid (102); a plurality of second fluid channels extending along a plurality of second paths between the inlet for the second fluid (103) and the outlet for the second fluid (104); characterised in that said plurality of first fluid channels are arranged side by side with and to follow closely said plurality of second fluid channels, such that said first fluid flowing in said plurality of first fluid channels flows adjacent and in an opposite direction to said second fluid flowing in said plurality of second fluid channels, said first and second channels separated by at least one said heat exchange plate (200) such that heat transfers through said heat transfer plate between said first and second fluids.

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 3/04** (2006.01)

CPC (source: EP)  
**F28D 9/0043** (2013.01); **F28F 3/046** (2013.01); **F28D 21/0003** (2013.01); **F28F 9/026** (2013.01)

Citation (applicant)  
US 2002185265 A1 20021212 - NASH JAMES S [US], et al

Citation (search report)  
• [X] WO 0198723 A1 20011227 - SERCK HEAT TRANSFERT LTD [GB], et al  
• [X] EP 2136175 A1 20091223 - SCHULT JOACHIM [DE]  
• [A] US 2004069475 A1 20040415 - BROST VIKTOR [DE], et al  
• [A] EP 1936310 A1 20080625 - SCHULT JOACHIM [DE]

Cited by  
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Designated extension state (EPC)  
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