

Title (en)  
Heat exchanger

Title (de)  
Wärmetauscher

Title (fr)  
Echangeur de chaleur

Publication  
**EP 0583851 B1 19971119 (EN)**

Application  
**EP 93202885 A 19860917**

Priority  
• EP 86307161 A 19860917  
• US 78308785 A 19851002  
• US 90269786 A 19860905

Abstract (en)  
[origin: EP0219974A2] An improved condenser for use in air conditioning or refrigeration systems. A pair of spaced headers (10,12) have a plurality of tubes (20) extending in hydraulic parallel between them and each tube (20) defines a plurality of hydraulically parallel, fluid flow paths (46,48,50,52,54,56,58,60) between the headers (10,12). Each of the fluid flow paths (46,48,50,52,54,56,58,60) has a hydraulic diameter in the range of about 0.015 to about 0.07 inches.  
[origin: EP0219974A2] The condenser comprises a pair of flow headers (10,12), one of which has a vapour inlet whilst the other has a condensate outlet (26). Flattened distribution tubes (20) between the headers define discrete hydraulically parallel fluid pathways. Each fluid pathway has an hydraulic diameter between 0.015 to 0.040 inches. There are several condenser tubes each extending between and in fluid communication with the headers.

IPC 1-7  
**F28D 1/053**; **F28F 1/02**; **F25B 39/04**

IPC 8 full level  
**F25B 39/04** (2006.01); **F28D 1/047** (2006.01); **F28D 1/053** (2006.01); **F28F 1/02** (2006.01); **F28F 3/02** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP KR)  
**F25B 39/04** (2013.01 - EP KR); **F28D 1/0478** (2013.01 - EP); **F28D 1/05383** (2013.01 - EP); **F28F 1/022** (2013.01 - EP); **F28F 3/025** (2013.01 - EP); **F28F 9/0243** (2013.01 - EP); **F25B 2500/01** (2013.01 - EP); **F28D 2021/0084** (2013.01 - EP); **F28F 2260/02** (2013.01 - EP)

Citation (examination)  
JP S5913877 U 19840127

Cited by  
DE10054158A1; DE10137907A1; US6302193B1; US8713963B2; US8439104B2; EP1203922A2; US6546997B2; US8234881B2; US8938988B2; US7677057B2; US7757753B2; US7980094B2; US6772602B2; US7802439B2; US7832231B2; US7895860B2; EP1992891B1

Designated contracting state (EPC)  
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