

Title (en)

Condenser with small hydraulic diameter flow path

Title (de)

Verflüssiger mit einem kleinen hydraulischen Durchmesser aufweisender Strömungsbahn

Title (fr)

Condenseur à branche d'écoulement à petit diamètre hydraulique

Publication

EP 0219974 B1 19961106 (EN)

Application

EP 86307161 A 19860917

Priority

- 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

F25B 39/04; **F28F 1/02**

IPC 8 full level

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CPC (source: EP KR)

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Cited by

EP1065454A1; WO0047939A1; US2018038661A1; EP1265046A3; EP0499390A1; US5458190A; US5099576A; EP0374896A3; US5482112A; US5246064A; DE10025486A1; DE10223712C1; DE3843306A1; USRE35742E; CN113091380A; DE3923936A1; US5190100A; USRE35711E; DE102006062261A1; DE20208337U1; DE3843305A1; EP0255313A3; USRE35655E; EP1265046A2; EP1531309A2; US8713963B2; WO9215833A1; WO2017004061A1; WO03078911A3; US6622785B2; US11060801B2; FR2809484A1; US6536512B2; US8234881B2; US8938988B2; EP1503164B1; US7802439B2; US7832231B2; US7895860B2; US7677057B2; EP0990828A2; WO0020807A2; US7757753B2; US7980094B2

Designated contracting state (EPC)

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