

Title (en)  
REFRIGERATING SYSTEM AND CONDENSER FOR DECOMPRESSION TUBE SYSTEM

Title (de)  
KÜHLSYSTEM UND KONDENSATOR FÜR DEKOMPRESSIONSROHRSYSTEM

Title (fr)  
SYSTEME DE REFROIDISSEMENT ET CONDENSEUR DE SYSTEME DE TUYAUTERIE DE DECOMPRESSION

Publication  
**EP 1426714 A4 20090701 (EN)**

Application  
**EP 02798815 A 20020909**

Priority  

- JP 0209195 W 20020909
- JP 2001278975 A 20010914
- US 32454201 P 20010926

Abstract (en)  
[origin: EP1426714A1] This refrigeration system is an orifice-tube system constituting a refrigeration cycle in which a refrigerant passes through a compressor 1, a condenser 10, an orifice-tube 3, an evaporator 4, and an accumulator 5 in this order and then returns to the compressor 1. The condenser 10 is constituted by the so-called multi-flow type heat exchanger having a plurality of passes P1-P3. The intermediate pass P2 is constituted as a decompression pass for decompressing the refrigerant. After condensing the refrigerant by the first pass P1, the condensed refrigerant is decompressed and evaporated by the decompression pass P2, and then the evaporated refrigerant is re-condensed by the third pass P3. This refrigeration system is excellent in response characteristic to thermal load fluctuations and in refrigeration performance. <IMAGE>

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**F25B 39/04**; B60H 1/32; F25B 1/00; F25B 41/06

IPC 8 full level  
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CPC (source: EP US)  
**F25B 39/04** (2013.01 - EP); **F25B 41/30** (2021.01 - EP US); **F28D 1/0316** (2013.01 - EP); **F28D 1/05391** (2013.01 - EP US); **F25B 6/04** (2013.01 - EP); **F25B 2339/0445** (2013.01 - EP); **F25B 2400/13** (2013.01 - EP); **F28D 2021/0084** (2013.01 - EP)

Citation (search report)  

- No further relevant documents disclosed
- See references of WO 03025477A1

Cited by  
US7802439B2; US8439104B2; WO2009018150A1; WO2008083220A1; US7942020B2; US8561427B2; US8234881B2; US8938988B2; US9651317B2

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**EP 1426714 A1 20040609**; **EP 1426714 A4 20090701**; CN 1555476 A 20041215; WO 03025477 A1 20030327

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**EP 02798815 A 20020909**; CN 02817916 A 20020909; JP 0209195 W 20020909