

Title (en)  
REFRIGERANT VAPOR COMPRESSION SYSTEM

Title (de)  
KÄLTEMITTELDAMPFKOMPRESSIONSSYSTEM

Title (fr)  
SYSTÈME DE COMPRESSION DE VAPEUR DE RÉFRIGÉRANT

Publication  
**EP 2257748 A4 20140625 (EN)**

Application  
**EP 08743495 A 20080219**

Priority  
US 2008054268 W 20080219

Abstract (en)  
[origin: WO2009105092A1] A refrigerant vapor compression system includes a first compression device, a refrigerant heat rejection heat exchanger, an expansion device, a refrigerant heat absorption heat exchanger, a second compression device, and a refrigerant-to-refrigerant heat exchanger having first refrigerant flow pass, a second refrigerant flow pass and a third refrigerant flow pass, with the second refrigerant flow pass disposed in heat exchange relationship with each of the first refrigerant flow pass and the third refrigerant flow pass. The second refrigerant flow pass is interdisposed in an economizer circuit. The heat transfer interaction between the first and second refrigerant flow passes functions as a subcooler of refrigerant flowing to the refrigerant heat absorption heat exchanger and the heat transfer interaction between the second and third refrigerant flow passes functions as an intercooler of refrigerant passing from the discharge outlet of the second compression device to the suction inlet of the first compression device.

IPC 8 full level  
**F25B 1/10** (2006.01); **F25B 15/00** (2006.01)

CPC (source: EP US)  
**F25B 1/10** (2013.01 - EP US); **F25B 2400/072** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US)

Citation (search report)

- [Y] WO 2006062860 A2 20060615 - CARRIER CORP [US], et al
- [Y] WO 2007111594 A1 20071004 - CARRIER CORP [US], et al
- See references of WO 2009105092A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009105092 A1 20090827**; CN 101946137 A 20110112; CN 101946137 B 20130828; DK 2257748 T3 20180129; EP 2257748 A1 20101208; EP 2257748 A4 20140625; EP 2257748 B1 20171227; HK 1152557 A1 20120302; JP 2011512509 A 20110421; US 2010326100 A1 20101230

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**US 2008054268 W 20080219**; CN 200880127059 A 20080219; DK 08743495 T 20080219; EP 08743495 A 20080219; HK 11106565 A 20110624; JP 2010547601 A 20080219; US 86784608 A 20080219