

Title (en)
REFRIGERANT VAPOR COMPRESSION SYSTEM

Title (de)
KÄLTEMITTELDAMPFKOMPRESSIONSSYSTEM

Title (fr)
SYSTÈME DE COMPRESSION DE VAPEUR DE RÉFRIGÉRANT

Publication
EP 2257748 A1 20101208 (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 15/00 (2006.01); **F25B 1/10** (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)

Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (publication)
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