

Title (en)
CHARGE MANAGEMENT IN REFRIGERANT VAPOR COMPRESSION SYSTEMS

Title (de)
CHARGENVERWALTUNG IN KÄLTEMITTELDAMPFKOMPRESSIONSSYSTEMEN

Title (fr)
GESTION DE LA CHARGE DANS DES SYSTÈMES DE RÉFRIGÉRATION À COMPRESSION DE VAPEUR

Publication
EP 2304345 A2 20110406 (EN)

Application
EP 09747454 A 20090513

Priority
• US 2009043770 W 20090513
• US 5316908 P 20080514

Abstract (en)
[origin: WO2009140370A2] A refrigerant vapor compression system includes a compression device, a refrigerant heat rejection heat exchanger, an expansion device, and a refrigerant heat absorption heat exchanger disposed in a closed-loop refrigerant circuit in serial refrigerant flow relationship. A refrigerant storage device is connected by at least one refrigerant line in fluid communication with the refrigerant circuit and a flow control device interdisposed in that refrigerant line. Refrigerant may be selectively withdrawn from and returned to the high-pressure side of the refrigerant circuit; or withdrawn from and returned to the low-pressure side of the refrigerant circuit; or withdrawn from the high-pressure side of the refrigerant circuit and returned to the low-pressure side of the refrigerant circuit. The refrigerant may be withdrawn from and returned to the refrigerant circuit during operation or during an off-cycle.

IPC 8 full level
F25B 45/00 (2006.01); **F25B 9/00** (2006.01)

CPC (source: EP US)
F25B 9/008 (2013.01 - EP US); **F25B 45/00** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2600/17** (2013.01 - EP US)

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009140370 A2 20091119; WO 2009140370 A3 20100422; CN 102132112 A 20110720; EP 2304345 A2 20110406; EP 2304345 A4 20141015; JP 2011521194 A 20110721; US 2011041523 A1 20110224

DOCDB simple family (application)
US 2009043770 W 20090513; CN 200980117081 A 20090513; EP 09747454 A 20090513; JP 2011509646 A 20090513; US 92295009 A 20090513