

Title (en)

REFRIGERANT SYSTEM WITH VARIABLE CAPACITY EXPANDER

Title (de)

KÄLTEMITTELSYSTEM MIT EXPANSIONSVORRICHTUNG MIT VERSTELLBARER KAPAZITÄT

Title (fr)

SYSTÈME RÉFRIGÉRANT À EXPANSEUR DE CAPACITÉ VARIABLE

Publication

EP 2142860 A1 20100113 (EN)

Application

EP 07758650 A 20070316

Priority

US 2007064117 W 20070316

Abstract (en)

[origin: WO2008115227A1] A refrigerant system incorporates a variable capacity expander. A bypass line selectively bypasses at least a portion of the refrigerant approaching the expander to the intermediate expansion point within the expander. In this manner, the refrigerant expansion process is controlled more efficiently than in the prior art.

IPC 8 full level

F25B 9/00 (2006.01)

CPC (source: EP US)

F25B 9/008 (2013.01 - EP US); **F25B 9/06** (2013.01 - EP US); **F25B 1/10** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2400/14** (2013.01 - EP US); **F25B 2600/2501** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008115227 A1 20080925; CN 101636622 A 20100127; CN 101636622 B 20111019; EP 2142860 A1 20100113; EP 2142860 A4 20120606; HK 1140807 A1 20101022; US 2010031677 A1 20100211

DOCDB simple family (application)

US 2007064117 W 20070316; CN 200780052198 A 20070316; EP 07758650 A 20070316; HK 10107054 A 20100721; US 52775807 A 20070316