

Title (en)
START-UP FOR REFRIGERANT SYSTEM WITH HOT GAS REHEAT

Title (de)
START EINES KÜHLSYSTEMS MIT HEISSGASNEUERHITZUNG

Title (fr)
DEMARRAGE POUR SYSTEME REFRIGERANT AVEC RECHAUFFAGE DE GAZ CHAUD

Publication
EP 2334995 A4 20140402 (EN)

Application
EP 09818193 A 20090902

Priority
• US 2009055694 W 20090902
• US 10202508 P 20081002

Abstract (en)
[origin: WO2010039385A2] A refrigerant system has a compressor for compressing and delivering refrigerant to a heat rejecting heat exchanger. Refrigerant from the heat rejecting heat exchanger passes through an expansion device, and then to an evaporator. A reheat circuit includes a reheat valve for selectively tapping refrigerant from a location downstream of the compressor and upstream of the condenser. The reheat refrigerant passes through a reheat heat exchanger, the reheat heat exchanger being positioned to be in a path of air having passed over the evaporator, and delivered into an indoor environment to be conditioned. A control for the refrigerant system is operable to receive inputs from the indoor environment to be conditioned, and to control the several components in the refrigerant system, the control being operable to determine a request for dehumidification provided without any request for significant change in the temperature of the air being delivered into the indoor environment to be conditioned, but said control starting operation of the refrigerant system by enabling cooling mode of operation initially and at least for a short period of time.

IPC 8 full level
F25B 49/00 (2006.01); **F24F 3/153** (2006.01); **F25B 6/04** (2006.01); **F25B 29/00** (2006.01); **F25B 40/00** (2006.01); **F25B 47/02** (2006.01)

CPC (source: EP US)
F24F 3/153 (2013.01 - EP US); **F25B 6/04** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 2313/02333** (2013.01 - EP US); **F25B 2400/06** (2013.01 - EP US)

Citation (search report)
• [Y] US 6941770 B1 20050913 - TARAS MICHAEL F [US], et al
• [Y] JP 2007155305 A 20070621 - HITACHI APPLIANCES INC
• [Y] US 2006090502 A1 20060504 - TARAS MICHAEL F [US], et al
• [Y] US 6705093 B1 20040316 - TARAS MICHAEL F [US], et al
• [A] WO 2005108886 A2 20051117 - CARRIER CORP [US]
• [A] JP 2002106913 A 20020410 - MATSUSHITA ELECTRIC IND CO LTD
• [A] US 2004089015 A1 20040513 - KNIGHT JOHN TERRY [US], et al
• [A] US 2005115254 A1 20050602 - KNIGHT JOHN T [US], et al
• [A] US 2005022541 A1 20050203 - RAYBURN RONALD RICHARD [US], et al
• See references of WO 2010039385A2

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 SM TR

DOCDB simple family (publication)
WO 2010039385 A2 20100408; WO 2010039385 A3 20100624; EP 2334995 A2 20110622; EP 2334995 A4 20140402; US 2011146306 A1 20110623

DOCDB simple family (application)
US 2009055694 W 20090902; EP 09818193 A 20090902; US 200913061616 A 20090902