

Title (en)

REFRIGERANT SYSTEM WITH REHEAT REFRIGERANT CIRCUIT

Title (de)

KÄLTEMITTELSYSTEM MIT NACHHEIZUNGSKÄLTEMITTELKREIS

Title (fr)

SYSTÈME RÉFRIGÉRANT À CIRCUIT DE FLUIDE FRIGORIGÈNE DE RÉCHAUFFEMENT

Publication

EP 2250445 A1 20101117 (EN)

Application

EP 08724970 A 20080130

Priority

US 2008001225 W 20080130

Abstract (en)

[origin: WO2009096915A1] A refrigerant system is provided that includes a cooling refrigerant circuit, a reheat refrigerant circuit, an evaporator fan, and a controller. The evaporator fan forces indoor air in a first direction and a second direction. The indoor air passes across the evaporator before the reheat coil, in the first direction, but passes across the reheat coil before the evaporator, in the second direction. The controller, when in a conventional cooling mode, controls the reheat refrigerant circuit so that the reheat refrigerant circuit is not in fluid communication with the cooling refrigerant circuit and controls the evaporator fan to force the indoor air in the first direction. Conversely, the controller, when in a defrost mode, controls the reheat refrigerant circuit so that the reheat refrigerant circuit is in fluid communication with the cooling refrigerant circuit and controls the evaporator fan to force the indoor air in the second direction.

IPC 8 full level

F24F 3/14 (2006.01)

CPC (source: EP US)

F24F 3/153 (2013.01 - EP US); **F24F 11/43** (2017.12 - EP US); **F25D 21/125** (2013.01 - EP US)

Citation (search report)

See references of WO 2009096915A1

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009096915 A1 20090806; CN 101932883 A 20101229; EP 2250445 A1 20101117; US 2010307172 A1 20101209

DOCDB simple family (application)

US 2008001225 W 20080130; CN 200880125983 A 20080130; EP 08724970 A 20080130; US 86412208 A 20080130