

Title (en)

REFRIGERATION CIRCUIT AND HEATING AND COOLING SYSTEM

Title (de)

KÄLTEKREISLAUF SOWIE HEIZ- UND KÜHLSYSTEM

Title (fr)

CIRCUIT DE RÉFRIGÉRATION ET SYSTÈME DE CHAUFFAGE ET DE REFROIDISSEMENT

Publication

EP 2844932 A1 20150311 (EN)

Application

EP 12719374 A 20120504

Priority

EP 2012058274 W 20120504

Abstract (en)

[origin: WO2013164036A1] A refrigeration circuit (1a, 1b, 1c, 1d, 1e) comprises a compressor (2), a condenser (14a, 14b), an expansion device (8), an evaporator (10), a heat rejecting heat exchanger (4), and a gas-liquid-separator (6), which is configured to separate the refrigerant leaving the heat rejecting heat exchanger (4) into a gaseous phase refrigerant portion and liquid phase refrigerant portion. The gas-liquid-separator (6) has a liquid phase output line (6b) with a liquid refrigerant control device (16). The refrigeration circuit (1a, 1b, 1c, 1d, 1e) further comprises a liquid meter (18), which is configured to measure the level of liquid refrigerant within the gas-liquid-separator (6), and a liquid level control device (20) coupled to the liquid meter (18) and to the liquid refrigerant control device (16). The liquid level control device (20) is configured to drive the liquid refrigerant control device (16) based on a signal provided by the liquid meter (18).

IPC 8 full level

F25B 6/04 (2006.01)

CPC (source: EP)

F25B 6/04 (2013.01); **F25B 2339/047** (2013.01); **F25B 2400/16** (2013.01); **F25B 2400/23** (2013.01); **F25B 2600/2519** (2013.01); **F25B 2700/04** (2013.01)

Citation (search report)

See references of WO 2013164036A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013164036 A1 20131107; EP 2844932 A1 20150311; EP 2844932 B1 20190227

DOCDB simple family (application)

EP 2012058274 W 20120504; EP 12719374 A 20120504