Title (en)

DEVICE AND METHOD FOR PROVIDING ADDITIONAL HEAD TO SUPPORT A REFRIGERATION LIQUID FEED SYSTEM

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BEREITSTELLUNG EINES ZUSÄTZLICHEN KOPFS ZUR UNTERSTÜTZUNG EINES KÜHLFLÜSSIGKEITS-ZUFUHRSYSTEMS

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR DÉLIVRER UNE TÊTE SUPPLÉMENTAIRE POUR SUPPORTER UN SYSTÈME D'ALIMENTATION EN LIQUIDE DE RÉFRIGÉRATION

Publication

EP 2449322 A1 20120509 (EN)

Application

EP 10794456 A 20100624

Priority

- SE 2010050724 W 20100624
- SE 0900890 A 20090629

Abstract (en)

[origin: WO2011002402A1] The disclosure relates to a refrigerant device and a method for providing additional head to support a refrigeration liquid feed system. The refrigerating device comprises a refrigerant liquid container (2), a sinking conduit(4) and a rising conduit (6), the sinking conduit (4) extending downwardly to a connection with the rising conduit(6), the rising conduit (6) extending upwardly from the connection with the sinking conduit (4). The refrigerating device further comprises an evaporator(8) having an inlet (12) connected downstream to the rising conduit (6) and an outlet (14) connected to the refrigerant liquid container (2) via a return conduit (10), and a gas injector (16) connected to the rising conduit (6), adapted to supply gas in order to allow gas to rise together with liquid refrigerant in the rising conduit (6) thereby reducing the total density of the mixture of liquid refrigerant and gas relative the density of liquid refrigerant.

IPC 8 full level

F25B 41/00 (2021.01); **F04F 1/18** (2006.01); **F25B 23/00** (2006.01)

CPC (source: EP US)

F04F 1/18 (2013.01 - EP US); **F25B 23/006** (2013.01 - EP US); **F25B 41/00** (2013.01 - EP US); F25B 2400/23 (2013.01 - EP US)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2011002402 A1 20110106; AU 2010266750 A1 20111215; AU 2010266750 B2 20130418; BR PI1011880 A2 20160329; CA 2764959 A1 20110106; CN 102803870 A 20121128; CN 102803870 B 20141001; EP 2449322 A1 20120509; EP 2449322 A4 20170503; JP 2012532304 A 20121213; JP 2015129631 A 20150716; JP 5778140 B2 20150916; US 2012090339 A1 20120419

DOCDB simple family (application)

SE 2010050724 W 20100624; AU 2010266750 A 20100624; BR PI1011880 A 20100624; CA 2764959 A 20100624; CN 201080026872 A 20100624; EP 10794456 A 20100624; JP 2012517457 A 20100624; JP 2015013800 A 20150128; US 201013378921 A 20100624