

Title (en)

LIGHT-LOAD DEHUMIDIFICATION AND REFRIGERATION METHOD AND DEVICE

Title (de)

LEICHTLASTENTFEUCHTUNGS- UND -KÜHLUNGSVERFAHREN UND -VORRICHTUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉSHUMIDIFICATION ET DE RÉFRIGÉRATION DE CHARGE LÉGÈRE

Publication

EP 3293467 A4 20180502 (EN)

Application

EP 15893991 A 20151206

Priority

- CN 201510298623 A 20150530
- CN 2015096510 W 20151206

Abstract (en)

[origin: EP3293467A1] The present invention provides an under-loading dehumidification and refrigeration apparatus, where an evaporator (3) is divided into a first evaporator section (5) and a second evaporator section (7), and a throttling apparatus (6) is connected in series between the first evaporator section (5) and the second evaporator section (7); and in a case of refrigeration and dehumidification, an electronic expansion valve A (8) performs throttling on a liquid refrigerant input from a condenser (2); and the first evaporator section (5) and the second evaporator section (7) raise a temperature of a gas-liquid two-phase refrigerant to become a gas refrigerant, to reduce an ambient temperature to perform dehumidification; or in a case of constant temperature dehumidification, the electronic expansion valve A (8) performs no throttling, and the first evaporator section (5) reduces a temperature of the liquid refrigerant; the throttling apparatus (6) performs throttling on the liquid refrigerant; and the second evaporator section (7) raises a temperature of a gas-liquid two-phase refrigerant to become a gas refrigerant, to reduce an ambient temperature to perform dehumidification.

IPC 8 full level

F25B 1/00 (2006.01); **F25B 5/04** (2006.01); **F25B 6/04** (2006.01); **F25B 39/02** (2006.01); **F25B 41/34** (2021.01); **F25B 41/37** (2021.01); **F25B 49/02** (2006.01)

CPC (source: CN EP)

F24F 3/1405 (2013.01 - CN); **F24F 5/001** (2013.01 - CN); **F24F 13/30** (2013.01 - CN); **F25B 5/04** (2013.01 - EP); **F25B 6/04** (2013.01 - EP); **F25B 39/02** (2013.01 - CN EP); **F25B 39/028** (2013.01 - EP); **F25B 41/31** (2021.01 - CN); **F25B 41/39** (2021.01 - EP); **F25B 49/02** (2013.01 - EP); **F24F 2003/144** (2013.01 - CN)

Citation (search report)

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- See references of WO 2016192347A1

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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)

EP 3293467 A1 20180314; **EP 3293467 A4 20180502**; BR 112017025830 A2 20180904; CN 104896637 A 20150909; WO 2016192347 A1 20161208

DOCDB simple family (application)

EP 15893991 A 20151206; BR 112017025830 A 20151206; CN 2015096510 W 20151206; CN 201510298623 A 20150530