

Title (en)

REFRIGERATION UNIT WITH AIR HUMIDITY MONITORING

Title (de)

KÄLTEGERÄT MIT LUFTFEUCHTEÜBERWACHUNG

Title (fr)

APPAREIL DE FROID MUNI D'UNE SURVEILLANCE DE L'HUMIDITÉ DE L'AIR

Publication

**EP 3314181 A1 20180502 (DE)**

Application

**EP 16726335 A 20160602**

Priority

- DE 102015211960 A 20150626
- EP 2016062467 W 20160602

Abstract (en)

[origin: WO2016206938A1] In the context of a refrigeration unit having a storage chamber (1) and an evaporator (4) that cools the storage chamber (1), a processing unit (8) is set up, at a given temperature (T) of the storage chamber (1), to assign values of the air humidity (r) in the storage chamber (1) and an evaporation temperature (TD) of the evaporator (4) to one another with the assumption that the absolute water vapor content of the air of the storage chamber (1) is the same as that of water-vapor-saturated air at the evaporation temperature (TD). This assignation makes it possible on one hand to estimate the relative air humidity in the storage chamber (1) on the basis of the temperatures, and on the other hand to control the air output temperature (TD), at constant temperature (T) in the storage chamber (1), in order to influence the air humidity (r) therein.

IPC 8 full level

**F25D 29/00** (2006.01); **F25D 17/04** (2006.01)

CPC (source: CN EP US)

**F25D 17/042** (2013.01 - CN EP US); **F25D 17/06** (2013.01 - CN); **F25D 21/04** (2013.01 - US); **F25D 23/00** (2013.01 - CN); **F25D 29/00** (2013.01 - EP US); **F25D 29/003** (2013.01 - CN); **F25D 29/005** (2013.01 - US); **F25B 2700/02** (2013.01 - CN EP US); **F25D 2317/04131** (2013.01 - US); **F25D 2400/36** (2013.01 - US); **F25D 2700/10** (2013.01 - CN EP US); **F25D 2700/12** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2016206938A1

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)

**DE 102015211960 A1 20161229**; CN 107810375 A 20180316; CN 107810375 B 20200814; EP 3314181 A1 20180502; US 2018187968 A1 20180705; WO 2016206938 A1 20161229

DOCDB simple family (application)

**DE 102015211960 A 20150626**; CN 201680037413 A 20160602; EP 16726335 A 20160602; EP 2016062467 W 20160602; US 201615739235 A 20160602