

Title (en)

AIR TREATMENT DEVICE AND METHOD FOR CONTROLLING AIR LEAKAGE IN AN AIR TREATMENT DEVICE

Title (de)

LUFTBEHANDLUNGSVORRICHTUNG UND VERFAHREN ZUR STEUERUNG VON LUFTLECKS IN EINER  
LUFTBEHANDLUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE TRAITEMENT DE L'AIR ET PROCÉDÉ DE CONTRÔLE D'UNE FUITE D'AIR DANS UN DISPOSITIF DE TRAITEMENT DE L'AIR

Publication

**EP 3311090 A1 20180425 (EN)**

Application

**EP 16812040 A 20160518**

Priority

- SE 1550823 A 20150616
- SE 2016050447 W 20160518

Abstract (en)

[origin: WO2016204671A1] Device and method for controlling the air leakage at a rotary heat exchanger (3) arranged in an air handling unit (4), which rotary heat exchanger (3) comprises an axially supported rotatable rotor (5). The rotor (5) is provided in an enclosing rotor chamber (6), which rotor chamber (6) comprises an air volume (16) surrounding the rotor (5). The invention is characterized by that the pressure of the air volume (16) in the rotor chamber (6) is ensured to always be equal to, or at least almost equal to, the pressure in an outdoor air chamber (25), by that a pressure compensation means (27) equalizes the pressures between the chambers (6, 25). This together with ensuring that the pressure in the outdoor air chamber (25) is the highest pressure, by that the pressures within the air handling unit (4) are controlled and regulated by means of measurement devices and a control device to make sure that the pressure in the outdoor air chamber (25) is the highest pressure at all operating points, whereby the eventual leakage around the rotor (5) always occurs from the rotor chamber (6) in direction towards the other chambers (21, 22, 26).

IPC 8 full level

**F28D 19/04** (2006.01); **F24F 12/00** (2006.01)

CPC (source: EP SE)

**F24F 11/74** (2017.12 - EP); **F24F 12/006** (2013.01 - EP); **F28D 19/041** (2013.01 - EP); **F28D 19/047** (2013.01 - EP SE);  
**F24F 2203/10** (2013.01 - EP); **F24F 2203/104** (2013.01 - SE); **F24F 2203/1096** (2013.01 - EP SE); **Y02B 30/56** (2013.01 - EP)

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 2016204671 A1 20161222**; EP 3311090 A1 20180425; EP 3311090 A4 20181121; SE 1550823 A1 20161217; SE 539066 C2 20170404

DOCDB simple family (application)

**SE 2016050447 W 20160518**; EP 16812040 A 20160518; SE 1550823 A 20150616