

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

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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

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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)

Citation (search report)

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- [A] US 2013252537 A1 20130926 - WILEY JOSIAH [US], et al
- [A] US 2013087302 A1 20130411 - MCKIE JUSTIN [US], et al
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- See references of WO 2016204671A1

Designated contracting state (EPC)

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