



(11) **EP 2 116 781 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
30.05.2012 Bulletin 2012/22

(51) Int Cl.:
F24F 3/14 ^(2006.01) **F28F 3/08** ^(2006.01)
F28F 9/02 ^(2006.01)

(43) Date of publication A2:
11.11.2009 Bulletin 2009/46

(21) Application number: **09250555.1**

(22) Date of filing: **27.02.2009**

(84) Designated Contracting States:
**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 TR**
Designated Extension States:
AL BA RS

(30) Priority: **07.05.2008 KR 20080042163**

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(54) **Dehumidifier**

(57) The present invention provides a dehumidifier, including a main body (2), comprising a dehumidification passage in which indoor air is sucked in and the sucked-in indoor air is dehumidified and a reconditioning passage in which reconditioning air circulates, a dehumidification rotor (60), comprising a dehumidification portion configured to dehumidify the indoor air and a reconditioning portion reconditioned using the reconditioning air, and a condensing heat exchanger (200) in which a plurality of heat exchange plates (220,240,260), each comprising a plurality of condensing ducts (232,253,272), is arranged

in parallel. The condensing ducts are configured so that the reconditioning air passed through the reconditioning portion is sucked in through upper parts of the condensing ducts and the sucked-in reconditioning air is discharged through lower parts of the condensing ducts. Thus, the flow of air within the condensing heat exchanger can become uniform and the heat exchange area is widened. Accordingly, the dehumidification performance of the dehumidifier can be improved and noise caused when the dehumidifier is driven can be reduced.

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EUROPEAN SEARCH REPORT

Application Number
EP 09 25 0555

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 24 April 2012	Examiner Lienhard, Dominique
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03-82 (P04C01)

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