

Title (en)

VENTED LAUNDRY DRYING HAVING AN ADDITIONAL HEATER AND HEAT EXCHANGER UNIT

Title (de)

ABLUFT-WÄSCHETROCKNUNG MIT ZUSATZHEIZUNG UND WÄRMETAUSCHERAGGREGAT

Title (fr)

SÈCHE-LINGE À ÉVACUATION DOTÉ D'UN CHAUFFAGE ADDITIONNEL ET ENSEMBLE ÉCHANGEUR DE CHALEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2013007506A1] The invention relates to a vented laundry dryer 1, comprising an air inlet duct 3, an air outlet duct 5, a heat recovery system 8-11 for transferring heat from the air outlet duct 5 to the air inlet duct 3, and an additional heater 7, wherein the heat recovery system 8-11 is a heat pump comprising an evaporator 8, a liquefier 9, a condenser 10, and a relaxation unit 11, wherein the liquefier 9 is thermally coupled to the air inlet duct 3, and the evaporator 8 is thermally coupled to the air outlet duct 5, and a relaxation property of the relaxation unit 11 can be adjusted depending on at least one parameter that is connected to an activity of the additional heater 7. A method is used to operate a vented heat dryer 1 comprising an additional heater 7 and a heat pump 8-11 having a relaxation unit 11, wherein the method comprises the following steps: (a) monitoring at least one parameter that is connected to an activity of the additional heater 7; and (b) changing a relaxation property of the relaxation unit 11 depending on the at least one parameter.

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Citation (examination)

- EP 2194182 A1 20100609 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- DE 102007061985 A1 20090625 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

Cited by

DE102020214559A1; EP3952032A1; EP3919838A1; DE102020206823A1

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