

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

EP 2732090 A1 20140521 (DE)

Application

EP 12732611 A 20120626

Priority

- DE 102011078922 A 20110711
- EP 2012062280 W 20120626

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.

IPC 8 full level

D06F 58/20 (2006.01)

CPC (source: CN EP US)

D06F 58/206 (2013.01 - CN EP US); **D06F 58/20** (2013.01 - CN EP US); **D06F 58/34** (2020.02 - CN EP US); **D06F 2103/30** (2020.02 - CN EP US); **D06F 2103/32** (2020.02 - CN EP US); **D06F 2103/52** (2020.02 - CN EP US); **D06F 2105/02** (2020.02 - CN EP US); **D06F 2105/32** (2020.02 - CN EP US)

Citation (search report)

See references of WO 2013007506A1

Cited by

DE102020214559A1; EP3952032A1; EP3919838A1; DE102020206823A1

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

DOCDB simple family (publication)

DE 102011078922 A1 20130117; CN 103649405 A 20140319; CN 103649405 B 20161228; EP 2732090 A1 20140521; EP 2732090 B1 20190619; PL 2732090 T3 20191231; RU 2014101766 A 20150820; RU 2564601 C2 20151010; US 2014165420 A1 20140619; US 9708750 B2 20170718; WO 2013007506 A1 20130117

DOCDB simple family (application)

DE 102011078922 A 20110711; CN 201280034267 A 20120626; EP 12732611 A 20120626; EP 2012062280 W 20120626; PL 12732611 T 20120626; RU 2014101766 A 20120626; US 201214232362 A 20120626