

Title (en)

Clothes treating apparatus with heat pump and control method thereof

Title (de)

Kleidungsbehandlungsvorrichtung mit Wärmepumpe und Steuerungsverfahren dafür

Title (fr)

Appareil de traitement pour vêtements avec pompe à chaleur et procédé de commande de celui-ci

Publication

EP 2722432 A3 20150422 (EN)

Application

EP 13189197 A 20131018

Priority

KR 20120117474 A 20121022

Abstract (en)

[origin: EP2722432A2] A clothes treating apparatus having a heat pump includes: a drum (110) for accommodating a dry target; a heat pump (130, 135, 150, 160) configured to cool air transmitted from the drum (110) and subsequently heat the same; a heating unit (170) configured to heat air transmitted from the heat pump (130, 135, 150, 160) to the drum (110); a sensing unit (137, 139) configured to sense a current physical parameter value of a heating medium; and a control unit (200) configured to control the heating unit (170) on the basis of the current physical parameter value of the heating medium. Speed drying can be performed, energy efficiency can be increased, and durability of the heat pump can be enhanced.

IPC 8 full level

D06F 58/20 (2006.01); **D06F 58/28** (2006.01); **D06F 58/26** (2006.01)

CPC (source: CN EP KR US)

D06F 58/04 (2013.01 - KR); **D06F 58/206** (2013.01 - CN EP KR US); **D06F 58/38** (2020.02 - KR); **D06F 34/26** (2020.02 - CN EP KR US); **D06F 58/26** (2013.01 - CN EP US); **D06F 58/34** (2020.02 - CN EP US); **D06F 2103/30** (2020.02 - CN EP KR US); **D06F 2103/32** (2020.02 - CN EP KR US); **D06F 2103/50** (2020.02 - CN EP KR US); **D06F 2105/26** (2020.02 - CN EP KR US); **D06F 2105/28** (2020.02 - CN EP KR US)

Citation (search report)

- [X] US 2012017466 A1 20120126 - BEERS DAVID G [US], et al
- [X] US 2012017465 A1 20120126 - BEERS DAVID G [US], et al
- [X] WO 2012134148 A2 20121004 - LG ELECTRONICS INC [KR], et al
- [X] DE 4304226 A1 19940818 - MIELE & CIE [DE]
- [X] DE 102007016076 A1 20081009 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

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WO2017005528A1

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)

DE 202013104697 U1 201311220; AU 2013245554 A1 20140508; AU 2016201175 A1 20160317; AU 2016201175 B2 20170309; BR 102013026924 A2 20170509; BR 102013026924 B1 20210720; CN 103774397 A 20140507; CN 103774397 B 20170804; EP 2722432 A2 20140423; EP 2722432 A3 20150422; EP 2722432 B1 20190424; KR 102009277 B1 20190809; KR 20140050985 A 20140430; RU 2013142952 A 20150327; RU 2560343 C2 20150820; US 2014109436 A1 20140424

DOCDB simple family (application)

DE 202013104697 U 20131018; AU 2013245554 A 20131018; AU 2016201175 A 20160225; BR 102013026924 A 20131018; CN 201310492657 A 20131018; EP 13189197 A 20131018; KR 20120117474 A 20121022; RU 2013142952 A 20130920; US 201314057207 A 20131018