

Title (en)

Thermoelectric heat pump, heat exchanger, household appliance and method for operating a household appliance

Title (de)

Thermoelektrische Wärmepumpe, Wärmetauscher, Haushaltsgerät und Verfahren zum Betreiben eines Haushaltsgeräts

Title (fr)

Pompe à chaleur thermo-électrique, échangeur thermique, appareil domestique et procédé pour commander un appareil domestique

Publication

EP 2578741 A1 20130410 (EN)

Application

EP 11183858 A 20111004

Priority

EP 11183858 A 20111004

Abstract (en)

There is disclosed a dishwasher (1) comprising a rinsing chamber (4) for cleaning dishes. For drying rinsed dishes by process air (48) the latter can be discharged from the rinsing chamber and can be dried and heated via a heat exchanger (16). Downstream of the heat exchanger the process air is supplied to the rinsing chamber. The heat exchanger (16) includes a thermoelectric heat pump (62,64) for cooling and drying the process air, wherein waste heat of the heat pump is discharged through a heat pipe (66,68).

IPC 8 full level

D06F 58/20 (2006.01); **A47L 15/00** (2006.01); **A47L 15/48** (2006.01); **F25B 21/02** (2006.01)

CPC (source: EP US)

A47L 15/0013 (2013.01 - EP US); **A47L 15/0047** (2013.01 - EP); **A47L 15/483** (2013.01 - EP); **A47L 15/486** (2013.01 - EP); **F25B 21/02** (2013.01 - EP); **A47L 2401/18** (2013.01 - EP); **A47L 2401/19** (2013.01 - EP); **A47L 2501/11** (2013.01 - EP); **D06F 58/206** (2013.01 - EP US); **F25B 2321/0252** (2013.01 - EP)

Citation (applicant)

- DE 102008043554 A1 20100512 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- WO 2007138064 A1 20071206 - ARCELIK AS [TR], et al

Citation (search report)

- [X] DE 102004055926 A1 20060524 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [XY] DE 202009005871 U1 20100916 - AUTOKUEHLER GMBH & CO KG [DE]
- [Y] US 5649372 A 19970722 - SOUZA WILLIAM J [US]
- [A] US 2006254623 A1 20061116 - CLASSEN EGBERT [DE], et al
- [A] US 2009049843 A1 20090226 - ALBAYRAK HASAN GOEK CER [DE], et al
- [A] US 2009044576 A1 20090219 - MOSCHUETZ HARALD [DE]
- [A] WO 2010003936 A1 20100114 - ARCELIK AS [TR], et al
- [A] WO 2010140334 A1 20101209 - PANASONIC CORP [JP], et al
- [A] DE 10334792 A1 20050224 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

Cited by

US2015252517A1; US2019383528A1; US11649993B2; CN104894801A; EP3124682A1; US2015257627A1; KR20150108188A; CN106264409A; US10039434B2; US11166618B2; US11672404B2

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Designated extension state (EPC)

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