

Title (en)
HOUSEHOLD APPLIANCE COMPRISING AN EXPANSION SYSTEM

Title (de)
HAUSHALTSGERÄT MIT EINEM EXPANSIONSSYSTEM

Title (fr)
APPAREIL ÉLECTROMÉNAGER COMPRENANT UN SYSTÈME D'EXPANSION

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Application
EP 10782275 A 20101124

Priority

- ES 200931159 A 20091214
- EP 2010068074 W 20101124

Abstract (en)
[origin: WO2011072999A2] The invention relates to a household appliance (1) comprising a treatment chamber (2) for treating articles (3), a process air guide (5) for guiding process air through said treatment chamber (2), said process air guide (5) comprising a blower (6) for driving the process air, a heater (7) for heating the process air and placed upstream of said treatment chamber (2), and a heat pump (7, 8, 9, 10, 11), wherein said heater (7) is a heat source (7) for transferring heat from a refrigerant circulating through said heat pump (7, 8, 9, 10, 11) to the process air, and wherein said heat pump (7, 8, 9, 10, 11) further comprises a heat sink (8) for transferring heat into the refrigerant, a compressor (9) for compressing the refrigerant, an expansion system (10) for expanding the refrigerant, and a refrigerant guide (11) for circulating the refrigerant through said heat pump (7, 8, 9, 10, 11) in a closed circuit. Said expansion system (10) has a variable restriction which may be controllable by a control unit (14) in response to signals from a sensor unit (15, 16).

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Cited by
EP3952032A1; DE102020214559A1; EP3919838A1; DE102020206823A1

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