

Title (en)

A laundry dryer with a heat pump system

Title (de)

Wäschetrockner mit Wärmepumpensystem

Title (fr)

Sèche-linge avec système de pompe à chaleur

Publication

EP 2570546 B1 20210113 (EN)

Application

EP 11181841 A 20110919

Priority

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Abstract (en)

[origin: EP2570546A1] The present invention relates to a laundry dryer with a heat pump system comprising a refrigerant circuit for a refrigerant and an air stream circuit for an air stream. The refrigerant circuit includes a compressor (14), a condenser (18), an expansion device and an evaporator (16). The air stream circuit includes at least one air stream fan (20), a laundry drum (26), the evaporator (16) and the condenser (18) connected in series and forming a closed loop. The refrigerant circuit and the air stream circuit are thermally coupled by the evaporator (16) and the condenser (18). The evaporator (16) is provided for cooling down the air stream and heating up the refrigerant. The condenser (18) is provided for heating up the air stream and cooling down the refrigerant. The air stream circuit includes an air duct (24) arranged in a basement (28) of the laundry dryer. The evaporator (16) and the condenser (18) are arranged inside the air duct (24). The air duct (24) comprises at least one curved portion, wherein the evaporator (16) and the condenser (18) are arranged inside said curved portion of the air duct (24).

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CPC (source: EP US)

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Citation (examination)

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- DE 202006018205 U1 20070215 - V ZUG AG [CH]
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EP4130374A1; CN105696291A; CN105696282A; CN107366999A; WO2023101317A1; US11186943B2; US11761141B2

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