

Title (en)

CLOTHES DRYER AND METHOD OF DRYING CLOTHES

Title (de)

WÄSCHETROCKNER UND VERFAHREN ZUM TROCKNEN VON WÄSCHE

Title (fr)

SÈCHE-LINGE ET PROCÉDÉ DE SÉCHAGE DE VÊTEMENTS

Publication

EP 4339355 A1 20240320 (EN)

Application

EP 22382865 A 20220919

Priority

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Abstract (en)

Clothes dryer (1) and method of drying clothes, said dryer (1) comprising a drum (2) through which there circulates an airflow through an air conduit (14), and a heat pump through which there circulates a coolant in a closed circuit. The method of drying clothes comprises a standard drying program and a quick drying program. The heat pump comprises an evaporator (3) which, in a first step of the method, cools and dehumidifies the air exiting the drum (2), a compressor (5), a condenser (6) which, in a second step of the method, heats the air circulating through the air conduit (14) before entering the drum (2), an expansion valve (12), and a fan (4). The heat pump also comprises a heat exchanger (7) arranged downstream of the condenser (6) according to the direction of the airflow circulating through the air conduit (14). In the quick drying program, the coolant circulates through the heat exchanger (7) before reaching the condenser (6), the coolant being in the gaseous state both at the inlet and at the outlet of the heat exchanger (7), with a further heat input being provided to the air circulating through the air conduit (14) in a third step of the method.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

WO 2009016173 A1 20090205 - ARCELIK AS [TR], et al

Citation (search report)

- [A] CN 211972835 U 20201120 - QINGDAO HAIER DRUM WASHING MACHINE CO LTD, et al
- [A] EP 3181751 A1 20170621 - WHIRLPOOL CO [US]
- [A] US 2014109322 A1 20140424 - PARK BIO [KR], et al
- [A] EP 3199690 A1 20170802 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)

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