Title (en)

METHOD OF OPERATION OF A HEAT PUMP DRYING AND/OR WASHING APPLIANCE AND HEAT PUMP DRYING AND/OR WASHING APPLIANCE

Title (de)

VERFAHREN ZUM BETRIEB EINER WÄRMEPUMPENTROCKNUNGS- UND/ODER -WASCHVORRICHTUNG SOWIE WÄRMEPUMPENTROCKNUNGS- UND/ODER -WASCHVORRICHTUNG

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN APPAREIL DE LAVAGE ET/OU DE SÉCHAGE DE POMPE À CHALEUR ET UN TEL APPAREIL DE LAVAGE OU DE SÉCHAGE

Publication

**EP 3124678 B1 20180620 (EN)**

Application

**EP 15178405 A 20150727**

Priority

EP 15178405 A 20150727

Abstract (en)

[origin: EP3124678A1] The present invention relates to method to operate a washing and/or drying appliance (1) including #¢ A treating chamber where items are introduced and treated with a process medium; #¢ a heat pump (30) system having a refrigerant circuit (38) in which a refrigerant can flow, said refrigerant circuit (38) including a first heat exchanger (31) where the refrigerant is cooled off, a second heat exchanger (32) where the refrigerant is heated up, a compressor (33) to pressurize and circulate the refrigerant through the refrigerant circuit, said compressor (33) including an electric motor, and a pressure-lowering device (34); said first and/or second heat exchanger being apt to perform heat exchange between said refrigerant flowing in said refrigerant circuit (38) and said process medium; said method comprising: #¢ storing a plurality (j) of data couples, a first element of each data couple being function of a maximum current value i MAXj for the compressor electric motor current, and the second element of the couple being a corresponding function of a compressor maximum temperature value T MAxj associated to the maximum current value i MAXj of the first element, said plurality of data couples delimiting a safety work space for said compressor; #¢ measuring substantially at the same time a temperature value T M representative of the temperature of said compressor and a current value i M representative of the current absorbed by said electric motor of said compressor while said heat pump is in operation; #¢ comparing said measured temperature value T M and said measured current value i M with said plurality of data couples; and #¢ cutting power supply to said compressor if: o there is a data couple (T MAXj* , i MAXj* ) in said plurality for which | T MAXj * - T M | = min j (| T M - T MAXj |) and i M #¥ i MAXj* or ## there is a data couple (T MAXj* , i MAXj* ) in said plurality for which | i MAXj* - i M | = min j (| i M - i MAXj |) and T M #¥ T MAXj *.

IPC 8 full level

**D06F 58/20** (2006.01); D06F 58/34 (2020.01)

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Cited by

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