

Title (en)

REFRIGERATION APPLIANCE COMPRISING A COMPARTMENT THAT CAN BE HEATED AND COOLED

Title (de)

KÄLTEGERÄT MIT HEIZ- UND KÜHLBAREM FACH

Title (fr)

APPAREIL FRIGORIFIQUE COMPRENANT UN COMPARTIMENT POUVANT ÊTRE CHAUFFÉ ET REFROIDI

Publication

**EP 4051972 A1 20220907 (DE)**

Application

**EP 20797692 A 20201019**

Priority

- DE 102019216582 A 20191028
- EP 2020079314 W 20201019

Abstract (en)

[origin: WO2021083697A1] The invention relates to a refrigeration appliance, in particular a domestic refrigeration appliance, comprising at least a first, a second and a third storage chamber (2, 3, 4), and a refrigerant circuit on which the following are connected in series between a pressure connection and a suction connection of a compressor (14): a condenser (15), a first expansion valve (17), a first heat exchanger (5) of the first storage chamber (2), a second expansion valve (18), and a second heat exchanger (6) of the second storage chamber (3), a third heat exchanger (7) associated with the third storage chamber (4), and a control circuit (13) for controlling the operation of the compressor (14) and the expansion valves (17, 18). The third heat exchanger (7) is connected in series downstream of the second heat exchanger (6). The control circuit (13) is designed to maintain a higher storage temperature (T4s) in the third storage chamber (4) than in the second storage chamber (3).

IPC 8 full level

**F25D 11/02** (2006.01); **F25B 5/04** (2006.01); **F25B 49/02** (2006.01); **F25D 23/12** (2006.01); **F25D 31/00** (2006.01)

CPC (source: CN EP US)

**F25B 5/04** (2013.01 - EP US); **F25B 6/04** (2013.01 - EP); **F25B 41/325** (2021.01 - CN); **F25B 49/02** (2013.01 - EP US);  
**F25D 11/02** (2013.01 - CN); **F25D 11/022** (2013.01 - EP US); **F25D 23/12** (2013.01 - EP); **F25D 29/00** (2013.01 - CN);  
**F25D 31/005** (2013.01 - CN EP); **F25B 2600/0253** (2013.01 - EP); **F25B 2600/2507** (2013.01 - EP); **F25B 2600/2513** (2013.01 - CN EP)

Citation (search report)

See references of WO 2021083697A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102019216582 A1 20210429**; CN 114616432 A 20220610; CN 114616432 B 20240109; EP 4051972 A1 20220907;  
US 2022364781 A1 20221117; WO 2021083697 A1 20210506

DOCDB simple family (application)

**DE 102019216582 A 20191028**; CN 202080075044 A 20201019; EP 2020079314 W 20201019; EP 20797692 A 20201019;  
US 202017771843 A 20201019