Title (en)

DEFROSTING CONTROL METHOD FOR REFRIGERATOR

Title (de)

ABTAUSTEUERUNGSVERFAHREN FÜR KÜHLSCHRANK

Title (fr)

PROCÉDÉ DE COMMANDE DE DÉGIVRAGE POUR RÉFRIGÉRATEUR

Publication

EP 4145074 A4 20231108 (EN)

Application

EP 21797732 A 20210226

Priority

- CN 202010506563 A 20200605
- CN 2021078168 W 20210226

Abstract (en)

[origin: EP4145074A1] A defrosting control method for a refrigerator includes: measuring a temperature in a storage space, and determining whether the temperature of the storage space reaches a first preset temperature value during a temperature decreasing process; when the temperature of the storage space reaches the first preset temperature value during the temperature decreasing process, starting a defrosting program to perform defrosting once, wherein the defrosting program includes a first defrosting program, and the first defrosting program includes: turning off a low-temperature-level evaporation portion, and starting a first defrosting heating apparatus to heat an evaporator; measuring the temperature in the storage space, and determining whether a difference between the temperature of the storage space and the first preset temperature value is greater than a first preset difference; and when the difference between the temperature of the storage space and the first preset temperature value is greater than the first preset difference, stopping the first defrosting program, and turning on the low-temperature-level evaporation portion. Defrosting can be performed many times in a timely manner, which not only ensures that the refrigeration is not affected by excessive frost, but also avoids the influence of excessive temperature rise caused by the defrosting on the nutritional preservation of food.

IPC 8 full level

F25D 21/06 (2006.01); **F25D 21/00** (2006.01); **F25D 21/08** (2006.01); **F25D 29/00** (2006.01)

CPC (source: CN EP)

F25D 11/022 (2013.01 - CN); **F25D 11/025** (2013.01 - CN); **F25D 21/006** (2013.01 - EP); **F25D 21/008** (2013.01 - CN EP); **F25D 21/06** (2013.01 - EP); **F25D 21/08** (2013.01 - CN EP); **F25D 29/00** (2013.01 - CN EP); F25B 7/00 (2013.01 - EP); F25B 47/02 (2013.01 - EP); F25D 2400/361 (2013.01 - EP); F25D 2600/02 (2013.01 - CN); F25D 2600/06 (2013.01 - CN); F25D 2700/12 (2013.01 - CN); F25D 2700/122 (2013.01 - EP)

Citation (search report)

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- [A] US 5765382 A 19980616 - MANNING WILLIAM R [US], et al
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- See also references of WO 2021218342A1

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

DOCDB simple family (publication)

EP 4145074 A1 20230308; **EP 4145074 A4 20231108**; **EP 4145074 B1 20240821**; CN 113758121 A 20211207; CN 113758121 B 20230418; JP 2023528838 A 20230706; JP 7516568 B2 20240716; WO 2021218342 A1 20211104

DOCDB simple family (application)

EP 21797732 A 20210226; CN 202010506563 A 20200605; CN 2021078168 W 20210226; JP 2022574237 A 20210226