Title (en)

REFRIGERATOR AND CONTROLLING METHOD THEREOF

Title (de)

KÜHLSCHRANK UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)

RÉFRIGÉRATEUR ET SON PROCÉDÉ DE COMMANDE

Publication

EP 3764033 A4 20211201 (EN)

Application

EP 19763443 A 20190131

Priority

- KR 20180027434 A 20180308
- KR 2019001340 W 20190131

Abstract (en)

[origin: EP3764033A1] A control method of a refrigerator, according to an embodiment of the present invention, comprises the steps in which: a heating element of a sensor which is responsive to a change in the flow rate of air is turned off after being turned on for a predetermined period of time; a first sensing temperature (Ht1) of the heating element is sensed in a state in which the heating element is on, and a second sensing temperature (Ht2) of the heating element is sensed in a state in which the heating element is off; and the amount of frost on an evaporator is sensed on the basis of the temperature difference value between the first sensing temperature (Ht1) and the second sensing detection temperature (Ht2).

IPC 8 full level

F25D 21/02 (2006.01); **F25D 17/06** (2006.01); **F25D 21/00** (2006.01)

CPC (source: CN EP KR US)

F25D 17/06 (2013.01 - CN KR); **F25D 21/006** (2013.01 - CN KR US); **F25D 21/02** (2013.01 - CN EP KR US); **F25D 21/06** (2013.01 - CN US); F25B 2700/11 (2013.01 - CN KR); F25D 2400/02 (2013.01 - CN EP); F25D 2600/02 (2013.01 - CN KR); F25D 2700/12 (2013.01 - CN US)

Citation (search report)

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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 3764033 A1 20210113; **EP 3764033 A4 20211201**; AU 2019232055 A1 20201015; AU 2019232055 B2 20220825; CN 111801539 A 20201020; CN 111801539 B 20220426; CN 114704994 A 20220705; CN 114704994 B 20231229; KR 102614564 B1 20231218; KR 20190106242 A 20190918; US 2021055034 A1 20210225; WO 2019172532 A1 20190912

DOCDB simple family (application)

EP 19763443 A 20190131; AU 2019232055 A 20190131; CN 201980016711 A 20190131; CN 202210356346 A 20190131; KR 20180027434 A 20180308; KR 2019001340 W 20190131; US 202017012993 A 20200904