Title (en)

REFRIGERATOR AND METHOD FOR CONTROLLING SAME

Title (de)

KÜHLSCHRANK UND VERFAHREN ZUR STEUERUNG DAVON

Title (fr)

RÉFRIGÉRATEUR ET SON PROCÉDÉ DE COMMANDE

Publication

EP 3779333 A4 20211229 (EN)

Application

EP 19774782 A 20190319

Priority

- KR 20180034516 A 20180326
- KR 2019003206 W 20190319

Abstract (en)

[origin: US2021010738A1] A method for controlling a refrigerator includes operating, for a predetermined period of time, a heating element of a sensor disposed on a bypass passage which allows a portion of air to bypass an evaporator disposed in a heat-exchange space; sensing the temperature of the heating element in on or off state; and sensing the blockage of an air passage in the heat-exchange space on the basis of the difference in value of the temperature between a first sensed temperature, which is the lowest value, and a second sensed temperature, which is the highest value, from among the sensed temperatures of the heating element.

IPC 8 full level

F25D 21/02 (2006.01); F25D 21/08 (2006.01)

CPC (source: CN EP KR US)

F25D 17/04 (2013.01 - CN KR); **F25D 21/002** (2013.01 - CN KR); **F25D 21/006** (2013.01 - CN US); **F25D 21/02** (2013.01 - CN EP KR US); **F25D 29/008** (2013.01 - CN KR); F25B 2700/11 (2013.01 - CN KR); F25D 21/08 (2013.01 - EP)

Citation (search report)

- [E] EP 3764033 A1 20210113 - LG ELECTRONICS INC [KR]
- [I] JP S60226688 A 19851111 - HITACHI LTD
- [I] GB 1586308 A 19810318 - ELECTRIC POWER RES INST
- [A] US 3465534 A 19690909 - SUTTON WALTER T JR, et al
- [A] US 3355904 A 19671205 - SUTTON JR WALTER T, et al
- See also references of WO 2019190114A1

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)

US 2021010738 A1 20210114; AU 2019243005 A1 20201015; AU 2019243005 B2 20220714; CN 111868462 A 20201030; CN 111868462 B 20220415; CN 114704993 A 20220705; CN 114704993 B 20240402; EP 3779333 A1 20210217; EP 3779333 A4 20211229; KR 102536378 B1 20230525; KR 20190112482 A 20191007; WO 2019190114 A1 20191003

DOCDB simple family (application)

US 202017030888 A 20200924; AU 2019243005 A 20190319; CN 201980019360 A 20190319; CN 202210309715 A 20190319; EP 19774782 A 20190319; KR 20180034516 A 20180326; KR 2019003206 W 20190319