

Title (en)  
REFRIGERATOR

Title (de)  
KÜHLSCHRANK

Title (fr)  
RÉFRIGÉRATEUR

Publication  
**EP 4148356 A1 20230315 (EN)**

Application  
**EP 21800170 A 20210421**

Priority  
• KR 20200054355 A 20200507  
• KR 20200054356 A 20200507  
• KR 2021005057 W 20210421

Abstract (en)  
The present disclosure relates to a refrigerator. The refrigerator according to one embodiment of the present disclosure comprises: an evaporator; a defrosting heater; a temperature sensor; and a controller to control the defrosting heater. The controller is configured to: in response to a defrosting operation starting time arriving, perform a defrosting operation mode including a pre-defrosting cooling mode, a heater operation mode and a post-defrosting cooling mode; perform a continuous operation mode, in which the defrosting heater is continuously on; and when a temperature change rate sequentially increases, decreases and increases again, perform a pulse operation mode, in which the defrosting heater is repeatedly turned on and off. Accordingly, defrosting efficiency may be improved, and power consumption may be reduced.

IPC 8 full level  
**F25D 21/00** (2006.01); **F25D 21/08** (2006.01)

CPC (source: EP US)  
**F25D 21/006** (2013.01 - EP US); **F25D 21/02** (2013.01 - US); **F25D 21/08** (2013.01 - EP US); **F25D 2700/10** (2013.01 - EP)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4148356 A1 20230315**; **EP 4148356 A4 20240522**; US 2023194144 A1 20230622; WO 2021225309 A1 20211111

DOCDB simple family (application)  
**EP 21800170 A 20210421**; KR 2021005057 W 20210421; US 202117923442 A 20210421