

Title (en)
REFRIGERATOR

Title (de)
KÜHLSCHRANK

Title (fr)
RÉFRIGÉRATEUR

Publication
EP 4273485 A1 20231108 (EN)

Application
EP 21914368 A 20211228

Priority
• JP 2020219789 A 20201229
• CN 2021141986 W 20211228

Abstract (en)
A refrigerators, an ice making device (30) of the refrigerator (10) comprises a water supply tank (31), an ice making tray (32), an ice storage container (33), a water supply pump (34), a water supply pipe (35) and a heating portion (36). The control portion (40) judges whether there is water in the water supply tank (31) via an infrared sensor (44), and variably controls the energization rate of the heating portion (36) according to the judgement result. According to this structure, bacteria are prevented from growing in the water remaining in the water supply pipe, and the suppression of the power consumption of the refrigerator (10) is achieved.

IPC 8 full level
F25D 29/00 (2006.01); **F25C 1/00** (2006.01)

CPC (source: EP)
F25C 1/25 (2018.01); **F25D 21/08** (2013.01); **F25D 23/126** (2013.01); **F25D 2323/122** (2013.01)

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 4273485 A1 20231108; **EP 4273485 A4 20240626**; CN 116670449 A 20230829; JP 2022104681 A 20220711; WO 2022143634 A1 20220707

DOCDB simple family (application)
EP 21914368 A 20211228; CN 2021141986 W 20211228; CN 202180087722 A 20211228; JP 2020219789 A 20201229