

Title (en)
ICE MAKER AND REFRIGERATOR HAVING SAME

Title (de)
EISBEREITER UND KÜHLSCHRANK DAMIT

Title (fr)
MACHINE À GLAÇONS ET RÉFRIGÉRATEUR DOTÉ DE LADITE MACHINE

Publication
EP 4083543 A1 20221102 (EN)

Application
EP 20908248 A 20201216

Priority
• JP 2019234062 A 20191225
• CN 2020136817 W 20201216

Abstract (en)
An ice maker and a refrigerator having same. The ice maker comprises: a cooling part (40) having a heat dissipation device (10) and a metal piece (20); a liquid container (50) configured to store liquid; a liquid supply part (72) configured to supply liquid to the liquid container (50); a moving mechanism (60) configured to rotate and move the liquid container (50); and a control part (90). The metal piece (20) is mounted, so that a rod-shaped component (24) made of metal extends downward from a base end to the tip, and the rod-shaped component (24) is cooled by means of the heat dissipation device (10). The ice-making process is repeated multiple times under the control of the control part (90), and the following steps are carried out in the ice-making process: a liquid supply step, an ice making step, an avoidance step, a deicing step, and a recovering step. The ice maker is high in cooling efficiency, and can make ice within a short period of time.

IPC 8 full level
F25C 1/08 (2006.01); **F25B 1/00** (2006.01); **F25C 5/08** (2006.01)

CPC (source: EP US)
F25C 1/08 (2013.01 - EP US); **F25C 5/08** (2013.01 - EP US); **F25B 5/04** (2013.01 - EP); **F25B 21/02** (2013.01 - EP); **F25B 25/00** (2013.01 - EP); **F25B 41/20** (2021.01 - EP); **F25B 2400/0409** (2013.01 - EP); **F25C 1/25** (2018.01 - EP); **F25C 2600/04** (2013.01 - US)

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 4083543 A1 20221102; **EP 4083543 A4 20230607**; CN 114787567 A 20220722; CN 114787567 B 20231103; JP 2021103032 A 20210715; JP 7469789 B2 20240417; US 2023026532 A1 20230126; WO 2021129485 A1 20210701

DOCDB simple family (application)
EP 20908248 A 20201216; CN 2020136817 W 20201216; CN 202080086050 A 20201216; JP 2019234062 A 20191225; US 202017788292 A 20201216