

Title (en)

ICE MAKING APPARATUS AND REFRIGERATOR

Title (de)

EISHERSTELLUNGSVORRICHTUNG UND KÜHLSCHRANK

Title (fr)

APPAREIL À GLAÇONS ET RÉFRIGÉRATEUR

Publication

EP 4187179 A4 20231227 (EN)

Application

EP 21791869 A 20210428

Priority

- CN 202010895632 A 20200831
- CN 2021090384 W 20210428

Abstract (en)

[origin: EP4187179A1] The present invention provides an ice making apparatus and a refrigerator. The ice making apparatus includes an ice making assembly; an ice storage box for receiving ice cubes made by the ice making assembly; a first sensor disposed at the bottom of the ice storage box and used for detecting an ice storage weight in the ice storage box; an input module for inputting a pre-stored ice cube quantity in the ice storage box; a storage module for storing an amount of ice made in a single process and a single ice cube weight; and a control module for calculating an amount of ice to be made according to the pre-stored ice cube quantity, the single ice cube weight and the ice storage weight, and controlling the ice making assembly according to the amount of ice to be made and the amount of the ice made in the single process.

IPC 8 full level

F25C 5/187 (2018.01)

CPC (source: CN EP)

F25C 1/00 (2013.01 - CN); **F25C 5/18** (2013.01 - CN); **F25C 5/187** (2013.01 - EP); **F25D 23/12** (2013.01 - CN); **F25D 29/005** (2013.01 - CN); **F25C 2600/04** (2013.01 - CN); **F25C 2700/02** (2013.01 - CN EP); **F25D 2400/36** (2013.01 - CN); **F25D 2400/361** (2013.01 - EP)

Citation (search report)

- [Y] US 10648721 B2 20200512 - TEMIZKAN SENOL [DE]
- [Y] EP 2064499 B1 20130710 - LG ELECTRONICS INC [KR]
- [A] US 2008157644 A1 20080703 - LEE DONG HOON [KR], et al
- [A] US 2016216022 A1 20160728 - PARK JUNSOO [KR], et al
- See references of WO 2021213529A1

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 4187179 A1 20230531; **EP 4187179 A4 20231227**; CN 114111139 A 20220301; CN 114111139 B 20230516; WO 2021213529 A1 20211028

DOCDB simple family (application)

EP 21791869 A 20210428; CN 202010895632 A 20200831; CN 2021090384 W 20210428