

Title (en)
ICE-CRUSHING DEVICE AND REFRIGERATOR

Title (de)
EISZERKLEINERUNGSVORRICHTUNG UND KÜHLSCHRANK

Title (fr)
DISPOSITIF DE BROyage DE GLACE ET RÉFRIGÉRATEUR

Publication
EP 3851771 A4 20211110 (EN)

Application
EP 19860381 A 20190815

Priority
• CN 201811056803 A 20180911
• CN 2019100726 W 20190815

Abstract (en)
[origin: EP3851771A1] The present invention discloses an ice-crushing device and a refrigerator. The ice-crushing device comprises: an ice storage box; an ice-crushing module provided at a bottom of the ice storage box and comprising an ice blade shaft and several movable ice blades and several stationary ice blades mounted on the ice blade shaft, the ice-crushing module being communicated with the ice storage box through an ice outlet at the bottom of the ice storage box; a driving mechanism disposed on a side of the ice-crushing module and at least used to drive the movable ice blades to rotate relative to the stationary ice blades; wherein the driving mechanism comprises a motor and a first transmission unit and a second transmission unit driven by the motor, an ice-agitating rod is disposed in the ice storage box, the first transmission unit drives the movable ice blades to rotate relative to the stationary ice blades, the second transmission unit drives the ice-agitating rod to rotate, and a rotation axis of the first transmission unit is arranged parallel to a rotation axis of the second transmission unit.

IPC 8 full level
F25C 5/04 (2006.01)

CPC (source: CN EP)
F25C 5/046 (2013.01 - CN EP); **F25C 5/182** (2013.01 - CN); **F25D 23/12** (2013.01 - CN)

Citation (search report)
• [XYI] US 9810471 B2 20171107 - KANG SUNGSIK [KR], et al
• [XI] CN 103575012 A 20140212 - TAIZHOU LG ELECT REFRIGERATOR
• [X] US 2011067429 A1 20110324 - LEE DONG HOON [KR], et al
• [Y] CN 108444161 A 20180824 - QINGDAO HAIER CO LTD
• [Y] US 2011120152 A1 20110526 - TALEGAONKAR ARUN MADHAV [US], et al
• [A] EP 2584293 A2 20130424 - LG ELECTRONICS [KR], et al
• [A] EP 2876387 A1 20150527 - DONGBU DAEWOO ELECTRONICS CORP [KR]
• See references of WO 2020052403A1

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

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