

Title (en)  
ICE MAKER

Title (de)  
EISMASCHINE

Title (fr)  
MACHINE À GLAÇONS

Publication  
**EP 4191167 A4 20240103 (EN)**

Application  
**EP 21863538 A 20210824**

Priority  
• JP 2020147406 A 20200902  
• CN 2021114175 W 20210824

Abstract (en)  
[origin: EP4191167A1] An ice maker (1) is provided which may make ice efficiently with a simple structure and is easy to disassemble from and assemble to a refrigerator. An ice maker (1) disposed inside a refrigerator (100) is provided, including: a cooling part (50) having a cooling pipe (40) where cold air passing through an evaporator (140) of the refrigerator flows, a heat sink (10) disposed in the cooling pipe (40) and having a plurality of cooling fins (12), and a metal plate (20) mounted to allow a metal rod-like member (24) to extend downwards from a base end portion to a tip portion, the rod-like member (24) being cooled by the heat sink (10); and a liquid container (60) capable of storing liquid, a predetermined region of the rod-like member (24) from the tip portion being immersed in the liquid contained in the liquid container (60), and ice being generated around the rod-like member (24) cooled by the heat sink (10).

IPC 8 full level  
**F25C 1/12** (2006.01); **F25B 21/04** (2006.01)

CPC (source: EP)  
**F25C 1/08** (2013.01); **F25C 1/25** (2017.12); **F25D 17/065** (2013.01); **F25B 21/04** (2013.01); **F25C 1/18** (2013.01); **F25C 5/08** (2013.01); **F25C 2305/0221** (2021.08); **F25D 2317/061** (2013.01); **F25D 2317/0671** (2013.01)

Citation (search report)  
• [I] DE 102010001460 A1 20110804 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• [I] DE 102010001465 A1 20110804 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• [I] WO 2009010424 A2 20090122 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al  
• [I] DE 102010001456 A1 20110804 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• [A] WO 2017071072 A1 20170504 - QINGDAO HAIER REFRIGERATOR CO LTD [CN]  
• [A] DE 202007005090 U1 20070531 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• See references of WO 2022048471A1

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 4191167 A1 20230607; EP 4191167 A4 20240103; CN 115997091 A 20230421; JP 2022042145 A 20220314; WO 2022048471 A1 20220310**

DOCDB simple family (application)  
**EP 21863538 A 20210824; CN 2021114175 W 20210824; CN 202180053436 A 20210824; JP 2020147406 A 20200902**