

Title (en)

EVAPORATOR ASSEMBLY FOR ICE-MAKING APPARATUS

Title (de)

VERDAMPFERANORDNUNG FÜR EISBEREITER

Title (fr)

ENSEMBLE ÉVAPORATEUR POUR APPAREIL DE FABRICATION DE GLACE

Publication

EP 4030126 A1 20220720 (EN)

Application

EP 20863231 A 20200907

Priority

- US 201916568425 A 20190912
- CN 2020113703 W 20200907

Abstract (en)

An ice making assembly includes an ice mold defining a mold cavity and a refrigeration loop having an evaporator assembly in thermal communication with the ice mold. A compressor is operably coupled to the refrigeration loop for circulating a flow of refrigerant through the refrigerant loop to cool the evaporator assembly and the ice mold. The evaporator assembly includes a primary evaporator tube and a thermal enhancement structure, such as internal tubes and/or copper foam, placed therein to increase the refrigerant side surface area. The primary evaporator tube is deformed into a non-circular cross sectional shape and soldered or brazed onto a top wall of the ice mold.

IPC 8 full level

F25C 1/04 (2018.01); **F25B 39/00** (2006.01); **F28F 1/40** (2006.01)

CPC (source: EP US)

F25B 39/02 (2013.01 - EP US); **F25C 1/045** (2013.01 - EP); **F25C 1/12** (2013.01 - US); **F25C 2400/10** (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

DOCDB simple family (publication)

US 2021080159 A1 20210318; CN 114364935 A 20220415; EP 4030126 A1 20220720; EP 4030126 A4 20221019;
WO 2021047463 A1 20210318

DOCDB simple family (application)

US 201916568425 A 20190912; CN 2020113703 W 20200907; CN 202080063545 A 20200907; EP 20863231 A 20200907