

Title (en)
ROTATING PLATE FREEZER

Title (de)
ROTIERENDER PLATTENGEFRIERAPPARAT

Title (fr)
CONGÉLATEUR À PLAQUES ROTATIVES

Publication
EP 3983738 A4 20230607 (EN)

Application
EP 20822150 A 20200612

Priority
• NO 20190728 A 20190613
• NO 2020050156 W 20200612

Abstract (en)
[origin: WO2020251371A1] This publication relates to a plate freezer assembly (100) and a method for freezing a substance, such as biomass or seafood by means of a plate freezer assembly (100). The plate freezer assembly (100) comprises a freezer plate unit (110) being an assembly of a row of vertically arranged freezing plates (112) that are mutually interconnected in parallel, forming compartments (111) being accessible from the top allowing filling the compartments (111) with substance to be frozen. The plate freezer assembly (100) being arranged with confinement plates forming a bottom of the compartments (111), preventing the filled substance to be frozen to slide out. The freezing plates (112) are being provided with inlets (118) and outlets (119) for a freezer agent, associated with supply and return lines (121, 122) and a manifold system (120) And the freezing plates (112) are being separated and spaced apart in longitudinal direction. The plate freezer assembly (100) is being provided with devices allowing the freezer plate unit (110) to be rotated around a longitudinal axis between a filling and emptying position.

IPC 8 full level
F25D 31/00 (2006.01); **A23B 4/07** (2006.01); **A23L 3/365** (2006.01); **F25D 25/00** (2006.01)

CPC (source: EP NO)
F25D 25/027 (2013.01 - NO); **F25D 31/00** (2013.01 - NO); **F25D 31/001** (2013.01 - EP NO)

Citation (search report)
• [XDAYI] GB 2275468 A 19940831 - STAR REFRIGERATION [GB]
• [Y] EP 1524481 A1 20050420 - WORMGOOR AREND [NL]
• [Y] SE 337837 B 19710823 - INST SCHIFFBAU [DD]
• See references of WO 2020251371A1

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)
WO 2020251371 A1 20201217; EP 3983738 A1 20220420; EP 3983738 A4 20230607; NO 20190728 A1 20201214; NO 345467 B1 20210215

DOCDB simple family (application)
NO 2020050156 W 20200612; EP 20822150 A 20200612; NO 20190728 A 20190613