

Title (en)
REFRIGERATION PLANT

Title (de)
KÄLTEANLAGE

Title (fr)
INSTALLATION FRIGORIFIQUE

Publication
EP 3658835 A1 20200603 (FR)

Application
EP 18758929 A 20180725

Priority
• FR 1757207 A 20170728
• FR 2018051907 W 20180725

Abstract (en)
[origin: WO2019020940A1] The invention relates to a refrigeration plant (5) comprising: a first chamber (10) containing water in the liquid state (14) at a temperature below or equal to the temperature of the triple point of water or less than 10°C above the temperature of the triple point of water and water in the gaseous state (11) at a first pressure equal to the saturation vapour pressure of water in equilibrium with the pressure of the water in the liquid state (14); a second chamber (30) at a second pressure strictly greater than the first pressure by at least a factor of two; a compression device (32) connecting the first chamber to the second chamber; a condensation device (34) suitable for condensing water in the gaseous state in the second chamber into water in the liquid state; and a device (24) for extracting cold power in the first chamber.

IPC 8 full level
F25C 3/04 (2006.01); **F25B 23/00** (2006.01); **F25C 1/16** (2006.01); **F25D 31/00** (2006.01)

CPC (source: EA EP KR US)
F25B 23/006 (2013.01 - EA EP KR); **F25C 1/16** (2013.01 - EA EP KR US); **F25C 3/04** (2013.01 - EA EP KR US);
F25D 31/00 (2013.01 - EA EP KR); **F25B 23/006** (2013.01 - US); **F25C 2303/044** (2013.01 - US)

Citation (examination)
EP 1247024 B1 20030709 - IDE TECHNOLOGIES LTD [IL]

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)
WO 2019020940 A1 20190131; AU 2018307454 A1 20200319; AU 2018307454 B2 20240411; BR 112020001728 A2 20200721;
BR 112020001728 B1 20231114; CA 3069841 A1 20190131; CN 111094879 A 20200501; CN 111094879 B 20220304; EA 039194 B1 20211216;
EA 202090341 A1 20200617; EP 3658835 A1 20200603; FR 3069624 A1 20190201; FR 3069624 B1 20191018; JP 2020535382 A 20201203;
JP 7158476 B2 20221021; KR 102539042 B1 20230531; KR 20200047541 A 20200507; US 11747069 B2 20230905;
US 2021156603 A1 20210527

DOCDB simple family (application)
FR 2018051907 W 20180725; AU 2018307454 A 20180725; BR 112020001728 A 20180725; CA 3069841 A 20180725;
CN 201880057106 A 20180725; EA 202090341 A 20180725; EP 18758929 A 20180725; FR 1757207 A 20170728; JP 2020526697 A 20180725;
KR 20207005648 A 20180725; US 201816634825 A 20180725