

Title (en)

AUTONOMOUS REFRIGERATING/FREEZING UNIT WITH SUPPLY DC OR AC VOLTAGE POWER SUPPLY

Title (de)

AUTONOME KÜHL-/GEFRIEREINHEIT MIT GLEICH- ODER WECHSELSPANNUNGSVERSORGUNG

Title (fr)

UNITÉ DE RÉFRIGÉRATION/CONGÉLATION AUTONOME AVEC ALIMENTATION EN TENSION CONTINUE OU ALTERNATIVE

Publication

EP 3885677 A1 20210929 (EN)

Application

EP 20165718 A 20200325

Priority

EP 20165718 A 20200325

Abstract (en)

This device differs is built with heat insulating walls. It comprises a compressor (5) with control unit and in its inner sidewalls or trays, cold accumulators (2) are built in which are in close contact with the pipes (1) of an evaporator coil. The sole power source is at least one solar panels when there is no access to a regular electrical net. In particular. The device provides cooling and maintaining the desired temperature of the substance placed inside chamber, powered from solar panels, without additional electrical devices over a wide DC voltage range 10 to 45V or at constant voltage. The unit enhances autonomy over long time periods and produces cold, regardless of the region of electrification, as well as in regions with frequent prolonged disruptions in the power supply.

IPC 8 full level

F25D 11/00 (2006.01); **F25B 27/00** (2006.01)

CPC (source: EP)

F25D 11/006 (2013.01); **F25D 19/02** (2013.01); **F25D 2303/0832** (2013.01)

Citation (search report)

- [X] GB 2575859 A 20200129 - B MEDICAL SYSTEMS SARL [LU]
- [X] US 2018094846 A1 20180405 - KOELSCH RONALD [US]
- [X] WO 2016181223 A2 20161117 - 3RD STONE DESIGN INC
- [X] WO 2018005988 A1 20180104 - EMERSON CLIMATE TECHNOLOGIES [US]
- [XI] WO 2005090881 A1 20050929 - DRYZUN NATHAN [AU], et al

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)

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