

Title (en)

IMPROVED MONOBLOCK REFRIGERATION SYSTEM AND RELATED PARAMETER CONTROL METHOD

Title (de)

VERBESSERTES MONOBLOCK-KÜHLSYSTEM UND ENTSPRECHENDES PARAMETERSTEUERVERFAHREN

Title (fr)

SYSTÈME DE RÉFRIGÉRATION MONOBLOC AMÉLIORÉ ET PROCÉDÉ DE COMMANDE DE PARAMÈTRE ASSOCIÉ

Publication

**EP 4338990 A1 20240320 (EN)**

Application

**EP 22197695 A 20220926**

Priority

IT 202200019128 A 20220919

Abstract (en)

The invention is a monoblock refrigeration system comprising an evaporator (1), a compressor (2), a condenser (3), an expansion valve (4) and at least one electronic device or control unit in turn comprising at least one interface for a user which is configured for the selection of one or more from at least two preset programs, wherein each program is related to a specific food or product in general to be stored and contains the operating parameters, including at least the temperature that must be reached inside said cold room, the  $\Delta T$  between the temperature inside the cold room and the temperature in the evaporator, the air flow rate in the evaporation unit.

IPC 8 full level

**B60H 1/00** (2006.01); **B60H 1/32** (2006.01); **B60P 3/20** (2006.01); **F25B 1/00** (2006.01); **F25B 41/31** (2021.01); **F25B 49/02** (2006.01); **F25D 11/00** (2006.01)

CPC (source: EP)

**F25B 1/005** (2013.01); **F25B 41/31** (2021.01); **F25B 49/02** (2013.01); **F25D 11/00** (2013.01); **F25B 2600/0253** (2013.01); **F25B 2600/2513** (2013.01); **F25B 2700/172** (2013.01); **F25B 2700/2104** (2013.01); **F25B 2700/2106** (2013.01); **F25B 2700/21175** (2013.01)

Citation (search report)

- [X] US 2006042296 A1 20060302 - LUDWIG BRADLEY M [US], et al
- [X] US 2015316311 A1 20151105 - KOPECKA MARKÉTA [CZ], et al
- [X] US 2018195789 A1 20180712 - SWAB MICHAEL [US]
- [X] JP 2006266661 A 20061005 - MITSUBISHI HEAVY IND LTD
- [A] EP 3517865 A1 20190731 - DENSO CORP [JP]
- [A] US 2017151859 A1 20170601 - DYKES DAVID J [US], et al
- [A] JP 2019138619 A 20190822 - CARRIER CORP
- [A] EP 3812666 A1 20210428 - THERMO KING CORP [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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4338990 A1 20240320**

DOCDB simple family (application)

**EP 22197695 A 20220926**