

Title (en)

AUTONOMOUS REFRIGERATED CONTAINER FOR STORAGE AND THERMOSTATTED TRANSPORT OF PRODUCTS

Title (de)

AUTONOMER KÜHLCONTAINER ZUR THERMOSTATISIERTEN LAGERUNG UND ZUM THERMOSTATISIERTEN TRANSPORT VON PRODUKTEN

Title (fr)

CONTENEUR RÉFRIGÉRÉ AUTONOME POUR LE STOCKAGE ET LE TRANSPORT DE PRODUITS SOUS TEMPÉRATURE CONTRÔLÉE

Publication

**EP 4227606 A1 20230816 (EN)**

Application

**EP 22382110 A 20220210**

Priority

EP 22382110 A 20220210

Abstract (en)

Fully autonomous refrigerated containers, which includes a gascooled magnetic refrigeration system (3), powered by a set of electrical batteries (4) integrated into the structure of the container, which are powered by two independent energy generation systems, a system based on wind turbines (6), and a piezoelectric generator system operated using vibrations and/or aerodynamics. The invention foresees a reduction in thermal loss by including magnetic seals in its access doors by way of a paramagnetic rubber perimeter lining profile (8).

IPC 8 full level

**F25B 21/00** (2006.01); **F25B 27/00** (2006.01); **F25D 11/00** (2006.01)

CPC (source: EP)

**F25D 11/003** (2013.01); **F25B 21/00** (2013.01); **F25B 27/00** (2013.01); **F25B 2321/002** (2013.01)

Citation (applicant)

CN 107031490 A 20170811 - UNIV QINGDAO AGRICULTURAL

Citation (search report)

- [I] US 2018274843 A1 20180927 - LOMBARDO MARY TERESA [US], et al
- [I] US 2017261237 A1 20170914 - HIGH DONALD R [US], et al
- [A] GB 2512406 A 20141001 - PERPETUAL V2G SYSTEMS LTD [GB]
- [AD] CN 107031490 A 20170811 - UNIV QINGDAO AGRICULTURAL

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)

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