

Title (en)

A PASSIVE TEMPERATURE CONTROL SYSTEM FOR TRANSPORT AND STORAGE CONTAINERS

Title (de)

PASSIVES TEMPERATURREGELSYSTEM FÜR TRANSPORT- UND LAGERBEHÄLTER

Title (fr)

SYSTÈME DE COMMANDE À TEMPÉRATURE PASSIVE POUR CONTENEURS DE TRANSPORT ET DE STOCKAGE

Publication

**EP 3475633 A1 20190501 (EN)**

Application

**EP 17754429 A 20170626**

Priority

- GB 201611031 A 20160624
- GB 2017000095 W 20170626

Abstract (en)

[origin: WO2017220953A1] The present invention relates to the field of the transportation and storage of goods and to a passive temperature control system for such a transport and storage containers. The present invention seeks to provide a system that can enable goods to be securely and reliably transported and stored for limited periods within specified temperature ranges. Pharmaceuticals, proteins, biological samples and other temperature sensitive products, including food items, are regularly shipped in containers year round and are subjected to a wide range of temperatures. Though they are shipped in insulated containers and/or climate controlled environments, the temperature stability of the shipping containers can be significantly improved by utilising suitable phase change materials (PCM 1, PCM 2) in an ordered fashion. The present invention provides a simple solution to the maintenance of temperature profiles for the transport and storage of temperature sensitive products.

IPC 8 full level

**F25D 3/06** (2006.01); **F25D 3/08** (2006.01)

CPC (source: EP GB US)

**B65B 55/00** (2013.01 - US); **B65D 81/38** (2013.01 - GB); **B65D 81/3813** (2013.01 - GB); **B65D 81/3823** (2013.01 - EP US); **F25D 3/06** (2013.01 - EP GB US); **F25D 3/08** (2013.01 - EP GB US); **F25D 2201/12** (2013.01 - US); **F25D 2201/1282** (2013.01 - EP US); **F25D 2303/08222** (2013.01 - EP); **F25D 2303/085** (2013.01 - EP US)

Citation (search report)

See references of WO 2017220953A1

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 2017220953 A1 20171228**; **WO 2017220953 A9 20180208**; CA 3028335 A1 20171228; EP 3475633 A1 20190501; GB 201611031 D0 20160810; GB 201710195 D0 20170809; GB 2556358 A 20180530; SG 11201811525Y A 20190130; US 2019226744 A1 20190725

DOCDB simple family (application)

**GB 2017000095 W 20170626**; CA 3028335 A 20170626; EP 17754429 A 20170626; GB 201611031 A 20160624; GB 201710195 A 20170626; SG 11201811525Y A 20170626; US 201716312996 A 20170626