

Title (en)

Controlling temperature in a refrigerated transport container

Title (de)

Steuerung der Temperatur in einem Kühlfrachtcontainer

Title (fr)

Régulation de la température dans un récipient de transport réfrigéré

Publication

**EP 2642227 A1 20130925 (EN)**

Application

**EP 12160941 A 20120323**

Priority

EP 12160941 A 20120323

Abstract (en)

Temperature is controlled in a refrigerated transport container comprising a transport volume, a control unit, a cooling space, one or more fans providing air flow through the cooling space, where air passing through the cooling space passes a return air temperature sensor, a cooling unit, and a supply air temperature sensor. Supply air temperature ( $T_{sup}$ ) is controlled to bring temperatures in the transport volume within a desired temperature range around a first temperature set point ( $T_{set}$ ). The supply air temperature ( $T_{sup}$ ) or a time-averaged function thereof is controlled (402) to reach a temperature below the set point ( $T_{set}$ ) during a first limited time period; and the supply air temperature ( $T_{sup}$ ) is increased (403) during a second limited time period following said first time period, so that the supply air temperature ( $T_{sup}$ ) or a time-averaged function thereof at the end of said second time period is within said desired temperature range.

IPC 8 full level

**F25D 29/00** (2006.01); **B60H 1/32** (2006.01); **B60P 3/20** (2006.01)

CPC (source: EP)

**F25D 29/003** (2013.01); **F25D 2700/123** (2013.01)

Citation (search report)

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- [Y] WO 2011008649 A2 20110120 - CARRIER CORP [US], et al
- [A] US 6058716 A 20000509 - REASON JOHN [US], et al
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Cited by

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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)

**EP 2642227 A1 20130925**

DOCDB simple family (application)

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