Title (en)

Method for filling a cooling module assigned to a transport container for transporting cooled products

Title (de)

Verfahren zum Befüllen eines einem Transportbehälter zum Transportieren gekühlter Produkte zugeordneten Kühlmoduls

Title (fr)

Procédé de remplissage d'un module de refroidissement associé à un réservoir de transport pour le transport de produits réfrigérés

Publication

EP 2597402 A3 20171129 (DE)

Application

EP 12192227 A 20121112

Priority

DE 102011119526 A 20111126

Abstract (en)

[origin: EP2597402A2] The method involves bringing the cooling agent into thermal contact with a product (3) during intended use of a transport container (1). The product is cooled by using the evaporation-, melting or sublimation enthalpy of the cooling agent. The mass of the product placed in the storage area (2) is determined before start of the usage. A value for the total mass of water in the product is calculated from the mass and the specific water proportion of the placed product. An enthalpy value for the total mass of water in the product is determined at a tolerance temperature difference. An independent claim is included for a device for executing the cooling module filling method.

IPC 8 full level

F25D 3/12 (2006.01)

CPC (source: EP)

F25D 3/125 (2013.01)

Citation (search report)

- [XI] FR 2726353 A1 19960503 - CARBOXYQUE FRANCAISE [FR]
- [XI] DE 19808267 A1 19990902 - MESSER FRANCE SA [FR]
- [XI] EP 0631096 A1 19941228 - CARBOXYQUE FRANCAISE [FR]

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 2597402 A2 20130529; **EP 2597402 A3 20171129**; **EP 2597402 B1 20190731**; **EP 2597402 B8 20191127**; DE 102011119526 A1 20130529; ES 2747126 T3 20200310; HU E047109 T2 20200428; PL 2597402 T3 20200131; SI 2597402 T1 20191129

DOCDB simple family (application)

EP 12192227 A 20121112; DE 102011119526 A 20111126; ES 12192227 T 20121112; HU E12192227 A 20121112; PL 12192227 T 20121112; SI 201231669 T 20121112