

Title (en)

Cooling element with excessive cooling protection

Title (de)

Kühlelement mit Unterkühlungsschutz

Title (fr)

Elément de refroidissement et protection contre le sous-refroidissement

Publication

EP 2098809 B1 20110216 (DE)

Application

EP 08152376 A 20080306

Priority

EP 08152376 A 20080306

Abstract (en)

[origin: EP2098809A1] The element (110) has a casing (112) provided with a heat transfer wall (122) to interchange thermal energy with goods i.e. medicament, to be refrigerated. A fluid space (120) is adjacent to the wall, and a storage space (118) is separated from the fluid space by a separating element (114). The storage space is arranged such that a supply of cooling agent (126) e.g. parafme, is kept away from the fluid space in a solid aggregation condition. The cooling agent is transferred from the storage space into the fluid space in a fluid aggregation condition. Independent claims are also included for the following: (1) a cooling container comprising an outer container with a receiver for spatial fixing of a cooling element (2) a method for cooling goods to be refrigerated (3) a method for manufacturing a cooling element.

IPC 8 full level

F25D 3/08 (2006.01)

CPC (source: EP US)

F25D 3/08 (2013.01 - EP US); **F25D 2303/082** (2013.01 - EP US); **F25D 2600/04** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2098809 A1 20090909; EP 2098809 B1 20110216; AT E498807 T1 20110315; DE 502008002609 D1 20110331;
US 2011126557 A1 20110602; US 2012042663 A9 20120223; WO 2009109494 A1 20090911

DOCDB simple family (application)

EP 08152376 A 20080306; AT 08152376 T 20080306; DE 502008002609 T 20080306; EP 2009052213 W 20090225; US 73606709 A 20090225