

Title (en)

DEVICE FOR COOLING A POURABLE OR LIQUID PRODUCT

Title (de)

VORRICHTUNG ZUM KÜHLEN EINES RIESELFÄHIGEN ODER FLIESSFÄHIGEN PRODUKTES

Title (fr)

DISPOSITIF DE REFROIDISSEMENT D'UN PRODUIT VERSABLE OU FLUIDE

Publication

EP 2655997 A2 20131030 (DE)

Application

EP 11788438 A 20111124

Priority

- DE 102010055706 A 20101222
- EP 2011070968 W 20111124

Abstract (en)

[origin: WO2012084406A2] The invention relates to a device for cooling a pourable or liquid product, comprising a container (1) for receiving or conveying the pourable or liquid product. A plurality of cooling zones (13a, 13b, 13c) are provided along the container (1) in the direction of conveyance of the pourable or liquid product. According to the invention, said cooling zones (13a, 13b, 13c) are embodied in such a manner that they can be supplied with a respective cooling medium (15a, 15b, 15c) independently from each other. Said device also comprises control means in order to control the cooling power of the individual cooling zones (13a, 13b, 13c) independently from each other.

IPC 8 full level

F28D 11/02 (2006.01)

CPC (source: EP US)

F25D 31/002 (2013.01 - US); **F28D 11/02** (2013.01 - EP US); **F28D 21/001** (2013.01 - EP US); **F28F 5/02** (2013.01 - EP US); **F28D 7/0075** (2013.01 - EP US); **F28D 7/106** (2013.01 - EP US); **F28D 2021/0042** (2013.01 - EP US); **F28D 2021/0045** (2013.01 - EP US); **F28F 27/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2012084406A2

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

DOCDB simple family (publication)

WO 2012084406 A2 20120628; **WO 2012084406 A3 20121122**; CA 2822482 A1 20120628; CA 2822482 C 20160503; CN 103380348 A 20131030; DE 102010055706 A1 20120628; EP 2655997 A2 20131030; JP 2014512499 A 20140522; US 2014083118 A1 20140327

DOCDB simple family (application)

EP 2011070968 W 20111124; CA 2822482 A 20111124; CN 201180061482 A 20111124; DE 102010055706 A 20101222; EP 11788438 A 20111124; JP 2013545147 A 20111124; US 201113995837 A 20111124