

Title (en)

CONTINUOUS FOOD PRODUCT COOLING SYSTEM

Title (de)

KONTINUIERLICHES KÜHLSYSTEM FÜR LEBENSMITTELPRODUKTE

Title (fr)

SYSTÈME DE REFROIDISSEMENT CONTINU DE PRODUIT ALIMENTAIRE

Publication

EP 2129980 A4 20140305 (EN)

Application

EP 08730766 A 20080226

Priority

- US 2008055026 W 20080226
- US 90361707 P 20070226

Abstract (en)

[origin: WO2008106454A1] A multi-stage continuous liquid chilling system for chilling particulate food product with a chilling liquid. Particulate product is conveyed through a rotating drum as vanes inside the drum control and move the product from the inlet towards the outlet. As the product is conveyed it is tumbled and mixed with the chilling liquid in a succession of processing sections, each including a flood portion and a drain portion. In both sections the food product is exposed to a spray of chilled liquid, which is drained off and used in an earlier stage in the processing cycle. While product is moved from the inlet to the outlet of the drum the chilling liquid is pumped in the opposite direction with a series of transfer pumps each connected to the drain sections in each chilling zone.

IPC 8 full level

F25D 17/02 (2006.01); **A23L 3/36** (2006.01); **F25D 13/06** (2006.01); **F25D 25/04** (2006.01)

CPC (source: EP US)

A23L 3/361 (2013.01 - EP US); **F25D 13/065** (2013.01 - EP US); **F25D 25/04** (2013.01 - EP US); **F25D 2400/28** (2013.01 - EP US)

Citation (search report)

- [X] US 5752431 A 19980519 - ZITTEL DAVID R [US]
- [A] US 5329842 A 19940719 - ZITTEL DAVID R [US]
- [A] US 4238997 A 19801216 - HENGSTENBERG ECKHART [DE]
- See references of WO 2008106454A1

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)

WO 2008106454 A1 20080904; AU 2008221469 A1 20080904; AU 2008221469 B2 20120524; CA 2679115 A1 20080904; EP 2129980 A1 20091209; EP 2129980 A4 20140305; US 2010050656 A1 20100304

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