

Title (en)

Distributed refrigeration system with custom storage modules

Title (de)

Verteiltes Kühlsystem mit individuell angepassten Speichermodulen

Title (fr)

Système de réfrigération distribué avec modules de stockage personnalisés

Publication

**EP 2009374 A2 20081231 (EN)**

Application

**EP 08252117 A 20080619**

Priority

US 76986407 A 20070628

Abstract (en)

A distributed refrigeration appliance system for use in a residential kitchen and other locations in a dwelling and includes multiple separate refrigeration appliance modules (20,22), a central cooling system (10) and a cooling circuit. The system can also include one or more satellite stations (282) having a heat exchanger and arranged for supplying chilled air to one or more refrigeration appliance modules (214). One or more refrigeration appliance modules (326) can include a thermal cascade cooling device to cool the module to lower temperatures than the cooling circuit can attain. One or more refrigeration appliance modules can be refrigeration/storage modules that can provide refrigerated, unconditioned or heated storage space. The central cooling system can be a vapor compression system having a refrigerant circuit connecting the modules. Alternately, the central cooling system can cool a secondary cooling medium circuit. The refrigeration system can also have more than one refrigeration machine providing cooling to the secondary refrigeration loop.

IPC 8 full level

**F25D 17/02** (2006.01)

CPC (source: EP US)

**F25B 25/00** (2013.01 - EP US); **F25D 11/02** (2013.01 - EP US); **F25D 11/022** (2013.01 - EP US); **F25D 11/025** (2013.01 - EP US); **F25D 11/027** (2013.01 - EP US); **F25D 15/00** (2013.01 - EP US); **F25D 17/045** (2013.01 - EP US); **F25D 17/065** (2013.01 - EP US); **F25D 29/00** (2013.01 - EP US); **F25B 7/00** (2013.01 - EP US); **F25B 9/14** (2013.01 - EP US); **F25B 21/02** (2013.01 - EP US); **F25D 23/003** (2013.01 - EP US); **F25D 23/10** (2013.01 - EP US); **F25D 2317/0682** (2013.01 - EP US); **F25D 2323/0023** (2013.01 - EP US); **F25D 2700/123** (2013.01 - EP US)

Citation (applicant)

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- US 5377498 A 19950103 - CUR NIHAT O [US], et al
- WO 2006022420 A1 20060302 - TAKEDA PHARMACEUTICAL [JP], et al
- WO 2006022503 A1 20060302 - RETAIL TECH CO LTD [KR], et al
- WO 2006022528 A1 20060302 - LG CHEMICAL LTD [KR], et al
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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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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