

Title (en)

A cooling device comprising a temperature controlled special compartment

Title (de)

Kühlvorrichtung mit einem Temperaturgeregelten Spezialfach

Title (fr)

Dispositif de refroidissement comprenant un compartiment spécial à température contrôlée

Publication

EP 3139115 B1 20190220 (EN)

Application

EP 16184776 A 20160818

Priority

TR 201511066 A 20150907

Abstract (en)

[origin: EP3139115A1] The present invention relates to a cooling device (1) comprising a fresh food compartment (2) wherein the foods are placed to be cooled; a freezing compartment (3) that is kept at lower temperatures than the fresh food compartment (2) and wherein the foods are placed to be frozen; a special compartment (4) that is disposed inside the fresh food compartment (2) and that is kept at a temperature between the fresh food compartment (2) temperature and the freezing compartment (3) temperature; a compressor (5) providing the compression of the refrigerant fluid; a condenser (6) that enables the refrigerant fluid leaving the compressor (5) to change to the liquid phase by being condensed; at least one fresh food compartment evaporator (7) providing the cooling of the fresh food compartment (2); at least one freezing compartment evaporator (8) providing the cooling of the freezing compartment (3); a first temperature sensor (10) that measures the temperature of the fresh food compartment (2) for controlling the cooling process; a second temperature sensor (11) that measures the temperature of the freezing compartment (3) for controlling the freezing process; a first valve (13) that is disposed at the outlet of the condenser (6), and a control unit (14) that enables the refrigerant fluid leaving the condenser (6) to be directed to the fresh food compartment evaporator (7) or the freezing compartment evaporator (8) by passing through the first valve (13) by evaluating the data received from the first temperature sensor (10) and the second temperature sensor (11).

IPC 8 full level

F25D 11/02 (2006.01); **F25B 5/02** (2006.01); **F25B 5/04** (2006.01)

CPC (source: EP US)

F25B 5/00 (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25D 11/022** (2013.01 - EP US); **F25B 2600/2507** (2013.01 - EP); **F25B 2600/2511** (2013.01 - EP); **F25B 2700/2104** (2013.01 - EP); **F25D 2700/121** (2013.01 - EP); **F25D 2700/122** (2013.01 - EP)

Citation (examination)

- CN 201852392 U 20110601 - HEFEI MIDEA ROYALSTAR REFRIGER, et al
- JP S6041779 U 19850325

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)

EP 3139115 A1 20170308; EP 3139115 B1 20190220

DOCDB simple family (application)

EP 16184776 A 20160818