

Title (en)

Temperature control method and unit for cooler devices

Title (de)

Temperatursteuerungsverfahren und Einheit für Kühlvorrichtungen

Title (fr)

Procédé de contrôle de la température et unité pour dispositif de refroidissement

Publication

**EP 2386812 A3 20140423 (EN)**

Application

**EP 11165217 A 20110509**

Priority

TR 201003866 A 20100514

Abstract (en)

[origin: EP2386812A2] A cooler device (1) adapted to operate with the method according to the present invention comprises at least one cooler compartment (10) and at least one freezer compartment (11); temperature sensors (13, 14) situated in said compartments (10, 11) to measure the temperature in said compartments (10, 11); a cooling setup containing evaporator (2), condenser (9), compressor (5) units, at least one fan (3), circulating air cooled down by the evaporator (2) within the cooler device (1), and at least one damper (4) that is opened and closed in an airflow channel (6) between the compartments (10, 11); and a control unit (12) controlling the operation of the cooler device. According to this method, temperatures measured (TF, TR) are compared to predetermined threshold values (TF1, TF2, TR1, TR2) in the control unit (12) and the operation states of the compressor (5) and fan (3) and the open/closed position of the damper (4) are determined according to the result of such comparisons.

IPC 8 full level

**F25D 17/04** (2006.01); **F25D 17/06** (2006.01)

CPC (source: EP)

**F25D 17/045** (2013.01); **F25D 17/065** (2013.01); **F25B 2600/0251** (2013.01); **F25B 2600/112** (2013.01); **F25D 2317/0666** (2013.01); **F25D 2700/12** (2013.01); **F25D 2700/122** (2013.01)

Citation (search report)

- [X] US 6125641 A 20001003 - KIM SEOK RO [KR], et al
- [A] JP H02133771 A 19900522 - TOSHIBA CORP
- [A] JP H07146053 A 19950606 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

CN103968633A; EP2762806A3; US9297566B2; US9453661B2; US10151522B2; US9328956B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2386812 A2 20111116; EP 2386812 A3 20140423**

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