

Title (en)

REFRIGERATION DISPLAY CASE, REFRIGERATION SYSTEM AND THERMOSTATIC CONTROL METHOD

Title (de)

KÜHLVITRINE, KÜHLSYSTEM UND THERMOSTATISCHES REGELUNGSVERFAHREN

Title (fr)

BOÎTIER D'AFFICHAGE DE RÉFRIGÉRATION, SYSTÈME DE RÉFRIGÉRATION ET PROCÉDÉ DE COMMANDE THERMOSTATIQUE

Publication

**EP 3500808 A1 20190626 (EN)**

Application

**EP 17751219 A 20170802**

Priority

- CN 201610670396 A 20160816
- US 2017045112 W 20170802

Abstract (en)

[origin: WO2018034846A1] The present invention provides a refrigeration display cabinet, a refrigeration system and a constant temperature control method. The refrigeration display cabinet includes: a refrigeration loop (110), including a compressor (111), a condenser (112), a throttling element (113) and an evaporator (114) which are connected in sequence through pipelines; and a control device (120) communicated with the refrigeration loop and used for directly or indirectly controlling the saturated suction temperature of the refrigeration loop in a preset threshold value range of -2 DEG C to +2 DEG C, wherein the evaporator is a finned heat exchanger, and has a fin density of not less than 6FPI. The refrigeration loop can provide high enough refrigeration capacity for the refrigeration display cabinet and avoid a frosting problem of the fins of the evaporator, thus avoiding a frosting blockage problem of the fins.

IPC 8 full level

**F25B 39/02** (2006.01); **F25B 41/30** (2021.01); **F25B 49/02** (2006.01); **F25D 11/00** (2006.01); **F25D 21/04** (2006.01)

CPC (source: CN EP)

**A47F 3/0439** (2013.01 - CN); **A47F 3/0478** (2013.01 - CN); **F25B 39/02** (2013.01 - CN EP); **F25B 41/30** (2021.01 - CN); **F25B 47/006** (2013.01 - CN); **F25B 49/022** (2013.01 - CN EP); **F25D 21/04** (2013.01 - EP); **F25B 2400/22** (2013.01 - EP); **F25B 2500/01** (2013.01 - EP); **F25B 2600/0251** (2013.01 - CN); **F25B 2700/197** (2013.01 - CN EP); **F25B 2700/2117** (2013.01 - CN); **F25B 2700/21175** (2013.01 - EP)

Citation (search report)

See references of WO 2018034846A1

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)

**WO 2018034846 A1 20180222**; CN 107752587 A 20180306; EP 3500808 A1 20190626

DOCDB simple family (application)

**US 2017045112 W 20170802**; CN 201610670396 A 20160816; EP 17751219 A 20170802