

Title (en)

A METHOD FOR CONTROLLING THE FORMATION OF FROST IN COOLING UNITS OF REFRIGERATION SYSTEMS

Title (de)

VERFAHREN ZUR VERRINGERUNG DER EISBILDUNG IN KÜHLAGGREGATEN EINES KÜHLSYSTEMS

Title (fr)

PROCÉDÉ DE CONTRÔLE DE LA FORMATION DE GIVRE DANS UNITÉS DE REFROIDISSEMENT EN SYSTÈMES DE RÉFRIGÉRATION

Publication

EP 3879211 A1 20210915 (EN)

Application

EP 21161323 A 20210308

Priority

IT 202000005218 A 20200311

Abstract (en)

A method for controlling the formation of frost in cooling units of refrigeration systems which comprise at least one heat exchange battery (2) equipped with a fan (3) and defrosting devices for the heat exchange surfaces, in which the defrosting cycle is automatically started upon reaching predetermined threshold values of the air flow rate at the fan (3), or of the air pressure in said cooling unit (1). The method has the main advantage of automatically determining the moment when it is necessary to start the defrosting cycle, thus avoiding starting the system in the absence of frost formation.

IPC 8 full level

F25D 21/02 (2006.01); **F24F 11/41** (2018.01); **F25D 21/00** (2006.01); **F25D 21/08** (2006.01)

CPC (source: EP)

F24F 11/41 (2017.12); **F25D 21/006** (2013.01); **F25D 21/025** (2013.01); **F25D 21/08** (2013.01)

Citation (search report)

- [X] JP H06147602 A 19940527 - MATSUSHITA SEIKO KK
- [X] US 5692385 A 19971202 - HOLLENBECK ROBERT K [US], et al
- [X] DE 10315523 A1 20041014 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [X] JP 2011247525 A 20111208 - PANASONIC CORP

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 3879211 A1 20210915; IT 202000005218 A1 20210911

DOCDB simple family (application)

EP 21161323 A 20210308; IT 202000005218 A 20200311