

Title (en)

Cooling system and defrosting control method thereof

Title (de)

Kühlsystem und Abtausteuerverfahren dafür

Title (fr)

Système de refroidissement et procédé de commande de dégivrage correspondant

Publication

EP 2426443 A3 20150708 (EN)

Application

EP 11178950 A 20110826

Priority

KR 20100085793 A 20100902

Abstract (en)

[origin: EP2426443A2] A cooling system including an evaporator to exchange heat with air, a frost detector installed on the evaporator to detect frost, and a control unit to determine whether a current time corresponds to a frost detection point, to control the frost detector to operate when the current time corresponds to the frost detection point, and to control a defrosting operation based on a frost detection signal from the frost detector. It is possible to accurately detect the amount of frost formed on the evaporator by executing the frost detection under constant frost detection environmental conditions.

IPC 8 full level

F25D 21/02 (2006.01); **F25D 21/00** (2006.01)

CPC (source: EP KR US)

F25D 21/004 (2013.01 - KR); **F25D 21/006** (2013.01 - EP KR US); **F25D 21/02** (2013.01 - EP KR US); **F25D 21/06** (2013.01 - KR); **F25D 29/00** (2013.01 - KR); **F25D 2321/00** (2013.01 - KR); **F25D 2700/10** (2013.01 - KR); **F25D 2700/12** (2013.01 - KR)

Citation (search report)

- [X] US 4297852 A 19811103 - BROOKS ROBERT B
- [X] WO 9616364 A1 19960530 - SAMSUNG ELECTRONICS CO LTD [KR], et al

Cited by

EP2741032A3; DE102014221317A1; WO2016062535A1; US9638455B2

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 2426443 A2 20120307; **EP 2426443 A3 20150708**; CN 102384614 A 20120321; CN 102384614 B 20151028; KR 20120022315 A 20120312; US 2012055181 A1 20120308

DOCDB simple family (application)

EP 11178950 A 20110826; CN 201110251584 A 20110829; KR 20100085793 A 20100902; US 201113137479 A 20110819