

Title (en)

Controller and method for controlling a defrost operation in a refrigerator

Title (de)

Steuervorrichtung und Verfahren zum Steuern des Abtauvorgangs in einem Kühlschrank

Title (fr)

Dispositif de commande et procédé pour commander l'opération de dégivrage dans un réfrigérateur

Publication

**EP 1180652 B1 20060927 (EN)**

Application

**EP 00117310 A 20000818**

Priority

EP 00117310 A 20000818

Abstract (en)

[origin: EP1180652A1] The present invention relates to a controller (1) and a method of controlling a defrost operation in a refrigerator. The duration of a refrigeration period is determined by the amount of time needed for defrosting the evaporator (2) of the refrigerator. A heater (13) is provided for supplying thermal energy to accelerate the defrost operation. If the defrost duration deviates from a target defrost duration, the next refrigeration period is adjusted accordingly to maintain the actual defrost duration close to the target defrost duration. According to the invention the target defrost duration is determined based on the detection of a power supply condition of the refrigerator. Preferably, also the thermal dispersion is detected. The invention achieves an optimized adaptive defrost even when operating the refrigerator in countries where the mains power supply suffers from load dependent voltage instabilities. <IMAGE>

IPC 8 full level

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CPC (source: EP)

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Cited by

CN100385187C; RU2504721C2; CN100374800C; EP1725819A4; CN115183514A; WO2005083337A1; US7320226B2; WO03098134A1; WO2004088223A1

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