

Title (en)
Refrigerator and method for controlling the same

Title (de)
Kühlschrank und Steuerungsverfahren dafür

Title (fr)
Réfrigérateur et procédé pour son contrôle

Publication
EP 2413075 B1 20210217 (EN)

Application
EP 11175667 A 20110727

Priority
• KR 20100073368 A 20100729
• KR 20100073369 A 20100729

Abstract (en)
[origin: EP2413075A2] The present invention relates to refrigerators, and more particularly, to a refrigerator which can measure an amount of frost on an evaporator in real time and determine a frost removing time; and a method for controlling the same. The refrigerator includes a body having at least one storage space for low temperature storage, a compressor in the body for compressing refrigerant, an evaporator for making heat exchange between the refrigerant from the compressor and air in the storage space, a frost removal heater for removing frost from the evaporator, an optical sensor having a light emitting unit for directing a light to the evaporator and a light receiving unit for receiving the light from the light emitting unit, and a control unit for controlling operation of the frost removal heater with reference to a quantity of the light received at the light receiving unit.

IPC 8 full level
F25D 21/02 (2006.01); **F25D 21/00** (2006.01); **F25D 21/08** (2006.01)

CPC (source: EP US)
F25D 21/006 (2013.01 - EP US); **F25D 21/02** (2013.01 - EP US); **F25D 21/08** (2013.01 - EP US)

Cited by
CN112050541A

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

DOCDB simple family (publication)
EP 2413075 A2 20120201; **EP 2413075 A3 20161123**; **EP 2413075 B1 20210217**; US 2012023974 A1 20120202

DOCDB simple family (application)
EP 11175667 A 20110727; US 201113192906 A 20110728