

Title (en)  
LIGHT BASED ICE DETECTION UNIT, REFRIGERATOR WITH ICE DETECTION UNIT AND METHOD FOR DEFROSTING OF A REFRIGERATOR

Title (de)  
LICHTBASIERTE EISDETEKTIONSEINHEIT, KÜHLSCHRANK MIT EISDETEKTIONSEINHEIT UND VERFAHREN ZUM ABTAUEN EINES KÜHLSCHRANKES

Title (fr)  
UNITÉ DE DÉTECTION DE GLACE À BASE DE LUMIÈRE, UNITÉ DE DÉTECTION DE GLACE POUR RÉFRIGÉRATEUR ET PROCÉDÉ DE DÉGIVRAGE D'UN RÉFRIGÉRATEUR

Publication  
**EP 3339774 A1 20180627 (EN)**

Application  
**EP 16206198 A 20161222**

Priority  
EP 16206198 A 20161222

Abstract (en)  
The before mentioned invention refers to an ice detection unit (1), at least comprising a light source (6) for emitting visible light (60), an optical means (62) for dividing said visible light (60) in multiple light beams (7.1-7.7), multiple detection means (8.1-8.7) for detecting light of said light beams (7.1-7.7) and for outputting of signals representing detected light, wherein refraction property changes of said optical means (62) are causing light path changes of the light paths of said multiple light beams (7.1-7.7), wherein refraction property changes are caused in dependency of the amount of ice on a surface of said optical means (62), wherein said signal output at least differs between a situation without ice on said surface of said optical means (62) and a situation with ice on said surface of said optical means (62).

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

CPC (source: EP)  
**F25D 21/02** (2013.01); **F25B 2700/111** (2013.01)

Citation (applicant)

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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 3339774 A1 20180627**; TR 201702945 A2 20180723

DOCDB simple family (application)  
**EP 16206198 A 20161222**; TR 201702945 A 20170227