

Title (en)
ICE DETECTION UNIT AND REFRIGERATOR WITH SUCH AN ICE DETECTION UNIT USING HYDRODYNAMIC PROPERTIES OF LIQUIDS AND METHOD FOR DEFROSTING OF A REFRIGERATOR

Title (de)
EISDETEKTIONSEINHEIT UND KÜHLSCHRANK MIT EINER SOLCHEN EISDETEKTIONSEINHEIT MIT VERWENDUNG VON HYDRODYNAMISCHEN EIGENSCHAFTEN VON FLÜSSIGKEITEN UND VERFAHREN ZUM ABTAUEN EINES KÜHLSCHRANKES

Title (fr)
UNITÉ DE DÉTECTION DE GLACE ET RÉFRIGÉRATEUR COMPORTANT UNE TELLE UNITÉ DE DÉTECTION DE GLACE UTILISANT LES PROPRIÉTÉS HYDRODYNAMIQUES DE LIQUIDES ET PROCÉDÉ DE DÉGIVRAGE D'UN RÉFRIGÉRATEUR

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Application
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Abstract (en)
The present invention refers to an ice detection unit (1). Said ice detection unit (1) comprises at least a deformable housing (4) for holding an indicator material (6), wherein said indicator material (6) has a phase change temperature at ambient pressure of 1 bar below 3°C, wherein said indicator material (6) is in a liquid phase above said phase change temperature and wherein said indicator material (6) is in a solid phase below said phase change temperature, wherein a volume of said deformable housing (4) changes with the phase of said indicator material (6), a defrost heater circuit (27), an activation or deactivation element (15) for activation or deactivating a defrost heater (30) of said defrost heater circuit (27), wherein the deformable housing (4) and the activation or deactivation element (15) are mechanically coupled, wherein a phase change of indicator material (4) causes a deflection of the activation or deactivation element (15) for activating or deactivating said defrost heater (30).

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Citation (applicant)
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