

Title (en)  
METHOD AND DEVICE FOR DETECTING A WATER CHANGE IN A WATER-BEARING HOUSEHOLD APPLIANCE, IN PARTICULAR A DISHWASHER

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR DETEKTION EINES WASSERWECHSELS IN EINEM WASSERFÜHRENDEN HAUSHALTSGERÄT, INSBESONDERE EINER GESCHIRRSPÜLMASCHINE

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE DÉTECTION D'UN CHANGEMENT D'EAU DANS UN APPAREIL MÉNAGER UTILISANT DE L'EAU, EN PARTICULIER UN LAVE-VAISSELLE

Publication  
**EP 2693930 B1 20161005 (DE)**

Application  
**EP 12708003 A 20120306**

Priority

- DE 102011079488 A 20110720
- EP 2012053784 W 20120306

Abstract (en)  
[origin: WO2013010682A1] The invention relates to a method for detecting a water change in a water-bearing household appliance, in particular a dishwasher, comprising a sensor for detecting water, a sensor for detecting a temperature, and a control unit for processing the sensor data, wherein the method comprises the following steps: (a.) detecting water in a defined time interval Zlw, 1, wherein method step (b.) is performed after the absence of water has been detected at at least two, preferably at least three consecutive measuring points within a time interval Zlw, 2,; (b.) detecting water in a defined time interval Zlw, 2, wherein method step (c.) is performed within the time interval Zlw, 2 after at least a one-time detection of the presence of water; (c.) detecting the temperature in a time interval ZIT,3, wherein the method step (d.) is performed if in at least two, preferably at least three consecutive temperature measuring intervals ZIT, 4 that are within the time interval ZIT, 3, the temperature at the beginning of the measuring interval ZIT, 3 is greater than the temperature T2 at the end of the measuring interval ZIT, 3; (d.) carrying out method step (e.), if the time between the detection of water according to method step (b.) and the at least three consecutive detections of a negative temperature gradient according to method step (c.) is less than two minutes; and (e.) producing a control signal by means of the control unit on the basis of a detected water change according to method steps (a.) through (d.).

IPC 8 full level  
**A47L 15/44** (2006.01); **A47L 15/00** (2006.01); **A47L 15/42** (2006.01)

CPC (source: EP US)  
**A47L 15/0055** (2013.01 - EP US); **A47L 15/006** (2013.01 - EP US); **A47L 15/42** (2013.01 - US); **A47L 15/44** (2013.01 - US); **A47L 15/4445** (2013.01 - EP US); **A47L 15/4463** (2013.01 - EP US); **A47L 15/4472** (2013.01 - EP US); **A47L 15/449** (2013.01 - EP US); **A47L 2401/06** (2013.01 - EP US); **A47L 2401/12** (2013.01 - EP US); **A47L 2401/20** (2013.01 - EP US); **A47L 2401/30** (2013.01 - EP US); **A47L 2501/07** (2013.01 - EP US); **A47L 2501/26** (2013.01 - EP US)

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)  
**DE 102011079488 A1 20130124**; EP 2693930 A1 20140212; EP 2693930 B1 20161005; ES 2608587 T3 20170412; HU E031426 T2 20170728; PL 2693930 T3 20170731; US 2014130831 A1 20140515; WO 2013010682 A1 20130124

DOCDB simple family (application)  
**DE 102011079488 A 20110720**; EP 12708003 A 20120306; EP 2012053784 W 20120306; ES 12708003 T 20120306; HU E12708003 A 20120306; PL 12708003 T 20120306; US 201414159918 A 20140121