

Title (en)  
WATER SUPPLY AND TREATMENT SYSTEM FOR HOUSEHOLD APPLIANCES ADAPTED TO OPERATE AT ATMOSPHERIC PRESSURE AND RELATED HOUSEHOLD APPLIANCE

Title (de)  
WASSERAUFBEREITUNGSSYSTEM FÜR HAUSHALTSGERÄTE, EINGERICHTET UM BEI ATMOSPHERISCHEM DRUCK ZU ARBEITEN UND DAS ENTSPRECHENDE HAUSHALTSGERÄT

Title (fr)  
DISPOSITIF DE TRAITEMENT DE L'EAU POUR LES APPAREILS MÉNAGERS ADAPTÉ POUR FONCTIONNER À PRESSION ATMOSPHÉRIQUE ET APPAREIL MÉNAGER CORRESPONDANT

Publication  
**EP 4046561 A1 20220824 (EN)**

Application  
**EP 22156736 A 20220215**

Priority  
IT 202100003668 A 20210217

Abstract (en)  
Water supply and treatment system (2) for household appliances (1), comprising: a backflow prevention device (3), of the type with outlet at atmospheric pressure, comprising an outlet (32); a first tank (5) defining a first volume (V1) containing a decalcifying substance in the form of granules. The water supply and treatment system (2) is designed to operate at atmospheric pressure. The water supply and treatment system (2) comprises an element (32A), wherein a part of said element (32A) being adapted to receive the water exiting through said outlet (32) of the backflow prevention device (3) and being under atmospheric pressure, having a hydraulic head with respect to an outlet (52) of the first tank (5) towards a wash chamber (12) of the household appliance (1) such as to allow the passage of a water flow into said first tank (5). The ratio between a volume of the decalcifying substance (V2) and the volume (V1) of the first tank (5), adapted to contain said volume (V2) of decalcifying substance, is such as to: allow the decalcifying substance to move in different operating configurations of the water supply and treatment system (2); and prevent said granules from getting compacted during the life of the system.

IPC 8 full level  
**A47L 15/42** (2006.01); **D06F 39/00** (2020.01)

CPC (source: EP)  
**A47L 15/4229** (2013.01); **A47L 15/4217** (2013.01); **D06F 39/007** (2013.01)

Citation (applicant)  
• EP 2564752 A1 20130306 - BITRON SPA [IT]  
• WO 2016203443 A1 20161222 - BITRON SPA [IT]

Citation (search report)  
• [XAYI] EP 0749720 A1 19961227 - WHIRLPOOL EUROP [NL]  
• [Y] EP 1275335 A1 20030115 - T & P SPA [IT]  
• [Y] EP 3494860 A1 20190612 - BITRON SPA [IT]  
• [A] AT 301793 B 19720925 - ZANUSSI A SPA INDUSTRIE [IT]  
• [A] EP 1270072 A2 20030102 - T & P SPA [IT]  
• [A] EP 0570872 A1 19931124 - AWECO KUNSTSTOFFTECH GERAETE [DE]

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 4046561 A1 20220824**; IT 202100003668 A1 20220817

DOCDB simple family (application)  
**EP 22156736 A 20220215**; IT 202100003668 A 20210217