

Title (en)  
CONTROL METHOD AND CONTROL APPARATUS FOR DISHWASHER

Title (de)  
STEUERUNGSVERFAHREN UND STEUERUNGSVORRICHTUNG FÜR GESCHIRRSPÜLMASCHINE

Title (fr)  
PROCÉDÉ DE RÉGULATION ET APPAREIL DE RÉGULATION POUR LAVE-VAISSELLE

Publication  
**EP 4144278 A4 20240529 (EN)**

Application  
**EP 21797871 A 20210422**

Priority  
• CN 202010365510 A 20200430  
• CN 2021088881 W 20210422

Abstract (en)  
[origin: EP4144278A1] A control method for a dishwasher, comprising: when it is determined that a washing stage to be run of a dishwasher does not require water for heating and washing, controlling water, which is produced by a water softening apparatus (300) that is in a regeneration working state, to flow into a washing cavity of the dishwasher, or controlling water in a water storage tank to flow into the washing cavity of the dishwasher (S101); and when it is determined that said washing stage of the dishwasher requires water for heating and washing, controlling the water, which is produced by the water softening apparatus (300) that is in the regeneration working state, to be discharged by means of a drainage pipeline or to flow into the water storage tank (S102). The water softening apparatus (300) comprises several first electrodes (1) and second electrodes (2) that are stacked together and staggered and that have opposite polarities, channels through which a water flow passes are formed between adjacent first electrodes (1) and second electrodes (2), the side of one among the two electrodes facing the channel is provided with an adsorption layer that adsorbs target cations, and the switching between a softening function and a regeneration function is achieved by means of exchanging the polarities of the first electrodes (1) and the second electrodes (2).

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

CPC (source: CN EP)  
**A47L 15/0028** (2013.01 - CN); **A47L 15/4214** (2013.01 - CN); **A47L 15/4229** (2013.01 - CN EP); **A47L 15/4297** (2013.01 - CN); **A47L 15/46** (2013.01 - CN); **A47L 2401/03** (2013.01 - EP); **A47L 2401/06** (2013.01 - CN EP); **A47L 2401/09** (2013.01 - CN); **A47L 2401/11** (2013.01 - CN EP); **A47L 2401/30** (2013.01 - EP); **A47L 2501/01** (2013.01 - CN); **A47L 2501/02** (2013.01 - CN); **A47L 2501/03** (2013.01 - EP); **A47L 2501/18** (2013.01 - CN EP); **A47L 2501/34** (2013.01 - EP)

Citation (search report)  
• [Y] EP 1762546 A1 20070314 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• [Y] US 2010132414 A1 20100603 - SONG TAE-WON [KR], et al  
• [A] KR 20140110668 A 20140917 - SAMSUNG ELECTRONICS CO LTD [KR]  
• [A] WO 2014014858 A2 20140123 - PREMARK FEG LLC [US], et al  
• See also references of WO 2021218759A1

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 4144278 A1 20230308; EP 4144278 A4 20240529; CN 111685679 A 20200922; CN 111685679 B 20220426; WO 2021218759 A1 20211104**

DOCDB simple family (application)  
**EP 21797871 A 20210422; CN 202010365510 A 20200430; CN 2021088881 W 20210422**