

Title (en)

Industrial dishwasher with improved water softening circuit and relevant operating method

Title (de)

Gewerblicher Geschirrspüler mit einem verbessertem Kreislauf zur Wasserenthärtung und entsprechendes Betriebsverfahren

Title (fr)

Lave-vaisselle industriel avec un circuit adoucisseur d'eau amélioré et procédé de fonctionnement associé

Publication

EP 2623013 B1 20140326 (EN)

Application

EP 12425021 A 20120202

Priority

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Abstract (en)

[origin: EP2623013A1] An industrial dishwasher includes a softener (2) with decalcifying resins through which water coming from the network (1) through a first inlet valve (EV1) reaches a break tank (3) and from there a heater (4) that feeds rinse sprinklers (6) by means of a rinse pump (5), a second network water inlet valve (EV2) that controls the flow towards a salt container (13) to obtain a sodium chloride solution which then reaches the softener (2), a deviating valve (14) located between the softener (2) and the break tank (3) and suitable to direct the water flow towards the break tank (3) through a first outlet (A) or directly towards a drain pipe (11) through a second outlet (B) and a first bypass pipe (BP1) that bypasses the break tank (3), as well as a third network water inlet valve (EV3) that controls the flow from the network (1) directly to the break tank (3) through a second bypass pipe (BP2) that bypasses the softener (2). In this way, it is possible to divide the hydraulic circuit of the dishwasher into a water softening circuit and a wash circuit that are completely independent and therefore to carry out the regeneration of the resins simultaneously with one or more wash cycles, without having to resort to pause periods or to complicated double water treatment circuits, whereby the regeneration is carried out only when required and without significantly affecting the exploitation of the machine.

IPC 8 full level

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CPC (source: EP)

A47L 15/4221 (2013.01); **A47L 15/4229** (2013.01); **A47L 15/0078** (2013.01)

Cited by

CN107928590A; EP3666153A1; US10028637B2; EP3662807A1; EP2976979A1; JP2016022386A; AU2015205840B2; CN110693432A; JP2021530293A

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