

Title (en)

FILLING SYSTEM AND METHOD FOR TREATING CONTAINERS WITH A PROCESS GAS

Title (de)

FÜLLSYSTEM SOWIE VERFAHREN ZUM BEHANDELN VON BEHÄLTERN MIT EINEM PROZESSGAS

Title (fr)

DISPOSITIF DE REMPLISSAGE ET METHODE DE TRAITER DES RECIPIENTS AVEC UN GAZ DE PROCÉDÉ

Publication

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Application

EP 14739372 A 20140703

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Abstract (en)

[origin: WO2015004001A1] The invention relates to a filling system for filling bottles or similar containers (2) with a liquid product, having a product vessel (1) in which, during the filling process, there are formed a lower liquid space (1.1), which is taken up by product, and a gas space (1.2) above said liquid space, having at least one filling element (4) which is arranged below the product vessel (1) and which has a filling element housing (7) in which there is formed a liquid duct (8) which is connected to the liquid space (1.1) and which forms a product dispensing opening (10) at an underside, facing away from the product vessel (1), of the filling element housing (7), having a liquid valve (11) which is arranged in the liquid duct (8) and which has a valve body (12), which valve body is provided on a valve plunger (13) arranged coaxially with a filling element axis (FA) and which valve body, for the purposes of opening and closing the liquid valve and controlled release of the product, can be moved axially into the container (2) arranged at the filling element (4), having a first gas duct (14) which is formed in the valve plunger (13) and issues at an upper end into the gas space (1.2) of the product vessel (1) and at the lower end into a head space of the container (2) arranged at the filling element (4), having a first gas valve (16) which is provided in the first gas duct (14) and which has a gas valve body (17), which gas valve body is movable for the purposes of opening and closing the first gas valve (16), and having at least one actuation element (18) which interacts with the gas valve body (17) of the first gas valve (16).

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