Title (en)

METHOD FOR FILLING BOTTLES OR SIMILAR CONTAINERS WITH A LIQUID PRODUCT UNDER COUNTERPRESSURE AND FILLING MACHINE FOR CARRYING OUT THIS METHOD

Title (de)

VERFAHREN ZUM FÜLLEN VON FLASCHEN ODER DERGLEICHEN BEHÄLTER MIT EINEM FLÜSSIGEN FÜLLGUT UNTER GEGENDRUCK SOWIE FÜLLMASCHINE ZUM DURCHFÜHREN DIESES VERFAHRENS

Title (fr)

PROCÉDÉ POUR REMPLIR DES BOUTEILLES OU RÉCIPIENTS SIMILAIRES D'UN PRODUIT LIQUIDE PAR CONTRE-PRESSION, ET MACHINE DE REMPLISSAGE POUR LA MISE EN OEUVRE DE CE PROCÉDÉ

Publication

EP 2125600 B1 20120718 (DE)

Application

EP 08707082 A 20080117

Priority

• EP 2008000316 W 20080117
• DE 102007009435 A 20070223

Abstract (en)

[origin: WO2008101572A1] A method for filling bottles or similar containers (2) with a liquid product under counterpressure, with the use of a filling machine (1) which has a plurality of filling elements (5) on a rotor (3), a boiling vessel (15) which is common to the filling elements (5) and the interior space of which forms a liquid space (15.1) taken up by the liquid product and a gas space (15.2) above the product for an inert gas which is under pressure (filling pressure), and at least one return gas channel (29) common to all of the filling elements (5) or to a group of filling elements, wherein, before the filling operation, the interior space of the containers (2) is prestressed in each case via a controlled gas path (21, 24, 28) of each filling element with inert gas which comes from the gas space of the boiling vessel (15) and is at the filling pressure, and, during the filling operation, at least part of the inert gas is forced out of the containers into the at least one return gas channel (29) by the inflowing product.

IPC 8 full level

B67C 3/28 (2006.01); **B67C 3/06** (2006.01); **B67C 3/10** (2006.01)

CPC (source: EP US)

B67C 3/06 (2013.01 - EP US); **B67C 3/10** (2013.01 - EP US); **B67C 3/286** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102007009435 A1 20080828; BR PI0806082 A2 20110830; CN 101626972 A 20100113; CN 101626972 B 20111019; EP 2125600 A1 20091202; EP 2125600 B1 20120718; JP 2010519141 A 20100603; JP 5331712 B2 20131030; MX 2009008808 A 20090831; PL 2125600 T3 20121231; RU 2406685 C1 20101220; SI 2125600 T1 20121030; US 2010212773 A1 20100826; US 2013180619 A1 20130718; US 8726946 B2 20140520; WO 2008101572 A1 20080828

DOCDB simple family (application)

DE 102007009435 A 20070223; BR PI0806082 A 20080117; CN 200880003978 A 20080117; EP 08707082 A 20080117; EP 2008000316 W 20080117; JP 2009550217 A 20080117; MX 2009008808 A 20080117; PL 08707082 T 20080117; RU 2009135385 A 20080117; SI 200830765 T 20080117; US 201313781317 A 20130228; US 54533909 A 20090821