

Title (en)
BEVERAGE FILLING METHOD

Title (de)
GETRÄNKEABFÜLLVERFAHREN

Title (fr)
PROCÉDÉ DE REMPLISSAGE DE BOISSON

Publication
EP 3009394 A4 20160525 (EN)

Application
EP 14852219 A 20140905

Priority
• JP 2013213758 A 20131011
• JP 2014004566 W 20140905

Abstract (en)
[origin: EP3009394A1] Provided is a beverage filling method whereby a container can be filled with a normal filling amount of beverage even when bubbles are formed during a pressurization-draining process. A beverage (31) filling method is a method for filling a container (3) with a carbonated beverage (31) by means of a filling valve (100), which is equipped with a discharge port (102b) through which the beverage is discharged and a throttle (110) that is formed upstream of the discharge port (102b), and is characterized by involving: a cleaning process whereby the inside of the filling valve (100) is cleaned; a pressurization-draining process whereby air inside the filling valve (100) is discharged to the outside by means of pressurization, the inside of the filling valve (100) is completely filled with the beverage (31), and the discharge port (102b) and the throttle (110) are brought to a closed state; a bubble removing process whereby bubbles formed inside the filling valve (100) during the pressurization-draining process are removed after the pressurization-draining process; and a beverage filling process whereby the container (3) is filled with the beverage (31) after the bubble removing process.

IPC 8 full level
B67C 3/28 (2006.01); **B67C 3/00** (2006.01); **B67C 3/06** (2006.01)

CPC (source: EP)
B67C 3/001 (2013.01); **B67C 3/06** (2013.01); **B67C 3/28** (2013.01)

Citation (search report)
• [X] US 2013000779 A1 20130103 - GRUSON BERTRAND [FR]
• [X] EP 0979797 A1 20000216 - KHS MASCH & ANLAGENBAU AG [DE]
• [X] EP 0999176 A1 20000510 - SHIKOKU KAKOKI CO LTD [JP]
• [A] AU 502163 B2 19790712 - MITSUBISHI HEAVY IND LTD
• See references of WO 2015052872A1

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 3009394 A1 20160420; EP 3009394 A4 20160525; EP 3009394 B1 20190220; JP 2015074489 A 20150420; JP 6433646 B2 20181205; WO 2015052872 A1 20150416

DOCDB simple family (application)
EP 14852219 A 20140905; JP 2013213758 A 20131011; JP 2014004566 W 20140905