

Title (en)  
FILLING SYSTEM

Title (de)  
FÜLLSYSTEM

Title (fr)  
SYSTÈME DE REMPLISSAGE

Publication  
**EP 3019437 A1 20160518 (DE)**

Application  
**EP 14734465 A 20140630**

Priority  
• DE 102013107260 A 20130709  
• EP 2014063804 W 20140630

Abstract (en)  
[origin: WO2015003941A1] Single-chamber filling system for filling bottles (2) or similar containers with liquid contents, having a contents vessel (1), in which are formed, during the filling operation, a lower, contents-filled liquid space (1.1) and, above the latter, a gas space (1.2), having at least one filling element (4) which is arranged beneath the contents vessel (1) and has a filling-element housing (7), in which is formed a liquid channel (8), which is connected to the liquid space (1.1) and forms a contents-discharging opening (10) on an underside of the filling-element housing (7), said underside being directed away from the contents vessel (1), having a liquid valve (11), which is arranged in the liquid channel (8) and has a valve body (12), which is provided on a valve tappet (13), arranged equiaxially with a filling-element axis (FA), and can be moved axially for opening and closing the liquid valve (11) and for discharging the contents in a controlled manner into the container (2) arranged in a sealed position against the filling element (4), having a gas channel (14), which is formed in the valve tappet (13) and, at an upper end, opens out into the gas space (1.2) of the contents vessel (1) and, at the lower end, opens out into a head space of the container (2) arranged in a sealed position against the filling element (4), having a gas valve (16) which is provided in the gas channel (14) and which has a valve body (17) which can be moved in order to open and close the gas valve (16), and having an actuating element (18), which interacts with the tappet (13) of the liquid valve (11) and with the valve body (17) of the gas valve (16).

IPC 8 full level  
**B67C 3/26** (2006.01)

CPC (source: EP US)  
**B67C 3/26** (2013.01 - EP US); **B67C 3/262** (2013.01 - EP US); **B67C 2003/2602** (2013.01 - EP US)

Citation (search report)  
See references of WO 2015003941A1

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