

Title (en)  
INSTALLATION FOR FILLING CONTAINERS BY USE OF COUNTER-PRESSURE

Publication  
**EP 0235065 B1 19900328 (FR)**

Application  
**EP 87470001 A 19870107**

Priority  
FR 8600591 A 19860115

Abstract (en)  
[origin: US4787427A] A filling apparatus operating by counterpressure and intended for use on bottling or filling machines for a barrel 1 equipped with an electric sensor 2 for controlling the fill level of the containers, and connected to a solenoid valve E and supply tank B filled with liquid under gaseous pressure, as well as to a detector P that senses the proximity of the container C to be filled. Barrel 1 of filling apparatus A contains a chamber 11 which, when no container C is being applied against the filling apparatus, is divided by two flexible membranes 5, 6-72 into three successive annular chambers 69, 70, 71 separated by the dividing walls 58, 62-621 of the two membranes 5, 6-72.

IPC 1-7  
**B67C 3/08**; **B67C 3/26**; **B67C 3/28**

IPC 8 full level  
**B67C 3/08** (2006.01); **B67C 3/26** (2006.01); **B67C 3/28** (2006.01); **B67C 3/06** (2006.01)

CPC (source: EP US)  
**B67C 3/08** (2013.01 - EP US); **B67C 3/2631** (2013.01 - EP US); **B67C 3/285** (2013.01 - EP US); **B67C 2003/2662** (2013.01 - EP US); **B67C 2003/2685** (2013.01 - EP US)

Cited by  
EP0341627A1; EP0458093A3; EP0581155A1; EP0268524A1; US4967813A

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**US 4787427 A 19881129**; DE 3762042 D1 19900503; EP 0235065 A1 19870902; EP 0235065 B1 19900328; ES 2010152 A4 19891101; ES 2010152 B3 19900701; FR 2592869 A1 19870717; FR 2592869 B1 19880311; IT 1206840 B 19890511; IT 8767016 A0 19870114; JP H0735196 B2 19950419; JP S62193992 A 19870826

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