

Title (en)

Gravity filling valve device for ungassed liquids, with a self-levelling system operating under slight gas pressure, for bottling machines.

Title (de)

Gravitationsfüllventilvorrichtung für nicht-kohlensäurehaltige Flüssigkeiten, Füllmaschinen, mit einer unter schwachem Gasdruck betriebenen selbsttätigen Nivellierung.

Title (fr)

Dispositif de soupape de remplissage fonctionnante par gravité pour machines de remplissage de récipients en liquids non-gazeuses, avec système nivelante qui fonctionne sous une basse pression de gaz.

Publication

EP 0556492 A1 19930825 (EN)

Application

EP 92203163 A 19921014

Priority

IT MI920372 A 19920220

Abstract (en)

To prevent contact between the liquid (4) and the atmosphere during bottling, the final level of the liquid (4) transferred into the bottle (5) is established by injecting an inert gas under slight pressure into the full bottle (5) through the hose (37) and the hole (36). The gas rises together with the excess liquid through a tube (11) coaxial with the vertical duct (15). The level of the liquid in the bottle becomes definitive when it skims the lower end of the tube (11). <IMAGE>

IPC 1-7

B67C 3/20; **B67C 3/26**

IPC 8 full level

B67C 3/10 (2006.01); **B67C 3/20** (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP)

B67C 3/10 (2013.01); **B67C 3/20** (2013.01); **B67C 3/262** (2013.01); **B67C 2003/2651** (2013.01)

Citation (search report)

- [E] FR 2675793 A1 19921030 - CAREME PAUL, et al
- [X] GB 2162829 A 19860212 - KRONSEDER MASCHF KRONES
- [X] EP 0337913 A2 19891018 - PERRIER IBERICA [ES]

Cited by

CN115447851A; ITPD20130180A1; FR2841232A1; WO2004056693A1; WO9911559A1

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