

Title (en)
PUSH BUTTON DISPENSER WITH COMPRESSED GAS CAPSULE FOR BEVERAGE BOTTLES

Title (de)
DRUCKKNOPF-DISPENSER MIT DRUCKGAS-KAPSEL FÜR GETRÄNKEFLASCHEN

Title (fr)
DISTRIBUTEUR À BOUTON-POUSOIR ET À CAPSULE DE GAZ COMPRIMÉ POUR BOUTEILLES DE BOISSON

Publication
EP 2563712 A2 20130306 (DE)

Application
EP 11717996 A 20110426

Priority
• CH 6262010 A 20100428
• EP 2011056525 W 20110426

Abstract (en)
[origin: WO2011134929A2] The push-button dispenser with compressed-gas capsule (7) for bottles (2) consists of a head which can be screwed onto the bottle (2) and have a lateral pouring channel (4), a push-button (15) on its upper side and downwardly projecting suction tube (11). The latter is intended to extend as far as the base of the bottle (2) which is to be fitted with the dispenser, and it opens out at the top into a valve device in the head. This valve device has a regulating means (39) which can be moved axially in relation to the bottle (2) and is biased in the closing direction by a spring (17), and can be opened by manual pressure being applied to the push-button (15) from above. This reduces pressure in the interior of the suction tube (11) to ambient pressure, as a result of which liquid is expelled from the bottle (2), by way of the internal pressure prevailing in the bottle (2), out of the lower mouth opening of the suction tube (11) via the pouring channel (4). As a special feature, the dispenser is configured as a single-piece housing (14) with inner housing (37), which contains all the other elements of the dispenser, or bears the same externally, wherein the housing (14) forms, at the side, an open accommodating cylinder (8), with a steel piercing tube (23) installed concentrically therein so as to be directed outwards, for the purpose of accommodating a compressed-gas capsule (7). A compressed-gas capsule (7) can be pushed into this accommodating cylinder from beneath until its lead-sealed piercing closure reaches the tip of the piercing tube (23), and it is retained in this position by static friction. The action of an associated threaded cap (6) being screwed on then causes this compressed-gas capsule (7) to be pushed further into the accommodating cylinder (8) in the axial direction, in which case the piercing tube (23), which is cut obliquely at the front, pierces, with sealing action, the lead-sealed piercing closure of the compressed-gas capsule.

IPC 8 full level
B67D 1/04 (2006.01)

CPC (source: EP US)
B65D 83/20 (2013.01 - US); **B67D 1/0418** (2013.01 - EP US)

Citation (search report)
See references of WO 2011134929A2

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

DOCDB simple family (publication)
CH 703027 A2 20111031; CH 703027 B1 20140530; AU 2011246512 A1 20121220; AU 2011246512 B2 20150820; BR 112012027607 A2 20190924; CN 102906006 A 20130130; CN 102906006 B 20150916; EP 2563712 A2 20130306; JP 2013525217 A 20130620; MX 2012012500 A 20130117; RU 2012148840 A 20140610; US 2013134190 A1 20130530; US 8967435 B2 20150303; WO 2011134929 A2 20111103; WO 2011134929 A3 20120105; WO 2011134929 A4 20120308; ZA 201208109 B 20130731

DOCDB simple family (application)
CH 6262010 A 20100428; AU 2011246512 A 20110426; BR 112012027607 A 20110426; CN 201180025176 A 20110426; EP 11717996 A 20110426; EP 2011056525 W 20110426; JP 2013506617 A 20110426; MX 2012012500 A 20110426; RU 2012148840 A 20110426; US 201113643458 A 20110426; ZA 201208109 A 20121026