Title (en)

PUSH BUTTON DISPENSER FOR BOTTLES WITH CARBONATED BEVERAGES

Title (de)

DRUCKKNOPF-DISPENSER FÜR FLASCHEN MIT KARBONISIERTEN GETRÄNKEN

Title (fr)

DISTRIBUTEUR À BOUTON-POUSSOIR POUR BOUTEILLES CONTENANT DES BOISSONS GAZÉIFIÉES

Publication

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Application

EP 11717559 A 20110426

Priority

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Abstract (en)

[origin: WO2011134928A2] The push-button dispenser for bottles with carbonated beverages has a head (1) which can be screwed onto a bottle and has a lateral pouring channel (15) and a push-button (16) on its upper side. A suction tube (10) projects downwards, this tube being intended to extend down as far as the base of the bottle (20) to be fitted with the dispenser. This suction tube opens out at the top into a valve device in the head (1), this valve device having a regulating means (5) which can be moved axially in relation to the bottle (20) and is biased in the closing direction by a spring (3). In order for the regulating means to be opened, pressure is applied to the push-button (16) from above, and therefore the pressure in the interior of the suction tube (10) is reduced to ambient pressure. This causes liquid to be expelled from the bottle, by way of the internal pressure prevailing in the bottle, out of the lower mouth opening of the suction tube (10) via the pouring channel (15). As a special feature, the suction tube (10) is produced from an elastomeric plastics material and its outer cross section and inner cross section are configured such that, with the internal pressure reduced to ambient pressure, in relation to the increased pressure prevailing from outside, it can have its throughflow cross section narrowed by deformation. This means that, despite the pressure in the bottle gradually decreasing, the amount of liquid which flows out per unit of time is kept more or less constant. The push-button dispenser makes it possible for bottles with carbonated beverages to be, for all practical purposes, completely emptied in an extremely convenient and reliable manner, in the upright or even horizontal position, just at the push of a button.

IPC 8 full level

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