

Title (en)

METHOD AND DEVICE FOR FILLING BOTTLES OR THE LIKE WITH A LIQUID

Publication

EP 0180828 B1 19890517 (DE)

Application

EP 85113195 A 19851017

Priority

DE 3439736 A 19841031

Abstract (en)

[origin: US4655029A] A method and apparatus for filling a bottle with an oxygen sensitive liquid such as beer in which the bottle is pre-evacuated, pressurized with pure CO₂, over-filled with liquid at constant pressure and then brought back to the proper fill level by injecting pure CO₂ and forcing the excess back into the gas pressurized liquid storage tank while the bottle is still coupled to the filling head. After uncoupling, the bottle is transported to under a closure cap applying device at which there are nozzles that project CO₂ under the device and over and around the mouth of the bottle so the space even within the cap is purged of air. The CO₂ used for purging is adequately free of air since it is taken from the storage tank to which CO₂ is returned from the bottles as a result of filling liquid displacing the CO₂ gas which is diluted only to the extent that pre-evacuation is not perfect.

IPC 1-7

B67C 3/10; B67C 7/00

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP0554690A1; EP1132335A1; CN111578123A; FR2615181A1; EP4046959A1; DE102021103744A1; EP1787940B2

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