

Title (en)
Improved filling valve.

Title (de)
Füllventil.

Title (fr)
Soupape de remplissage.

Publication
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Application
EP 90811027 A 19901227

Priority
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Abstract (en)
Filling valves for counterpressure filling of containers with carbonated liquids. The filling valves comprise valve bodies for conducting the carbonated liquids to the container from an external reservoir, the valve body having an end from which the carbonated liquid is dispensed to the container. The valves further comprise counterpressure valves movably mounted in the valve body for controlling the flow of counterpressure gas to the containers. Vent tubes mounted in the valve bodies through the dispensing end of the valve bodies, the vent tubes being slidable with respect to the valve bodies from a retracted position to an extended position in the containers in response to the counterpressure gas are provided. Pressure relief passages interfaced through the valve bodies for venting gas from the valves after the liquid has filled the containers whereby movement of the vent tubes from the extended position to the retracted position is substantially unimpeded are further provided. Housings movably mounted with respect to the valve bodies for securing the containers to the valves during filling and actuating cams coupled thereto for moving the housings relative to the valve bodies onto the containers are further provided in accordance with the invention. <IMAGE>

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B67C 3/08; **B67C 3/26**

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

CPC (source: EP)
B67C 3/08 (2013.01); **B67C 3/26** (2013.01)

Citation (search report)
• [XD] US 4750533 A 19880614 - YUN CHUNG J [US]
• [Y] US 4938261 A 19900703 - PETRI ULRICH H [US], et al
• [A] US 3626996 A 19711214 - BINGHAM JOSEPH P, et al
• [A] GB 1359496 A 19740710 - HOLSTEIN & KAPPERT MASCHF

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