

**ECLA****EUROPEAN CLASSIFICATION****B67C****CLEANING, FILLING WITH LIQUIDS OR SEMILIQUIDS, OR EMPTYING, OF BOTTLES, JARS, CANS, CASKS, BARRELS, OR SIMILAR CONTAINERS, NOT OTHERWISE PROVIDED FOR; FUNNELS****B67C3/00**

**Bottling liquids or semiliquids; Filling jars or cans with liquids or semiliquids using bottling or like apparatus; Filling casks or barrels with liquids or semiliquids** (filling containers with liquids or semiliquids using apparatus other than bottling or like apparatus [B65B3/00](#)) [[C1003](#)]

**B67C3/00C**

- . [N: Cleaning of filling devices]

**B67C3/00C2**

- . . [N: using cups or dummies to be placed under the filling heads] [[N9912](#)]

**B67C3/00C2B**

- . . . [N: permanently attached to the filling machine and movable between a rest and a working position] [[N9912](#)]

**B67C3/00C4**

- . . [N: Cleaning outside parts of filling devices] [[N9912](#)]

**B67C3/00D**

- . [N: Applications of control, warning or safety devices in filling machinery ([flow-control B67C3/28](#))] [[N0203](#)]

**B67C3/00F**

- . [N: Bottling or like apparatus specially adapted to be transported, e.g. positioned on a truck or in a container] [[N1203](#)]

**B67C3/02**

- . Bottling liquids or semiliquids; Filling jars or cans with liquids or semiliquids using bottling or like apparatus

**B67C3/02B**

- . . [N: Filling multiple liquids in a container ([B67C3/20F](#) takes precedence)] [[N1203](#)]

**B67C3/02B2**

- . . . [N: Filling the liquids simultaneously] [[N1203](#)]

**B67C3/04**

- . . without applying pressure

**B67C3/04A**

- . . . [N: Apparatus specially adapted for filling bottles with hot liquids] [[N0804](#)]

**B67C3/06**

- . . using counterpressure, i.e. filling while the container is under pressure

**B67C3/06B**

- . . . [N: Filling siphons, e.g. carbonating beverages during filling ([siphons B67D1/04D](#))]

**B67C3/08**

- . . . and subsequently lowering the counterpressure

**B67C3/10**

- . . . preliminary filling with inert gases, e.g. carbon dioxide

**B67C3/12**

- . . . Pressure-control devices

**B67C3/14**

- . . . specially adapted for filling with hot liquids [[C1003](#)]

**B67C3/16**

- . . using suction

**B67C3/18**

- . . using siphoning arrangements

**B67C3/20**

- . . with provision for metering the liquids to be introduced, e.g. when adding syrups ([measuring volume, or volume flow, in general G01F](#))

**B67C3/20B**

- . . . [N: by weighing] [[N9507](#)]

**B67C3/20D**

- . . . [N: using dosing chambers] [[N9507](#)]

**B67C3/20E**

- . . . [N: using arrangements of cylinders and pistons ([B67C3/20F](#) takes precedence)] [[N9507](#)]

**B67C3/20F**

- . . . [N: specially adapted for adding small amounts of additional liquids, e.g. syrup]

## N9507]

B67C3/22	. .	Details
B67C3/22B	. . .	[N: Head-space air removing devices, e.g. by inducing foam]
B67C3/22B2	. . . .	[N: by squeezing the container elastically] [N0104]
B67C3/22E	. . .	[N: Means for filling simultaneously, e.g. in a rotary filling apparatus or multiple rows of containers] [N1203]
B67C3/24	. . .	Devices for supporting or handling bottles ( <a href="#">transport or storing devices in general B65G</a> )
B67C3/24B	. . . .	[N: engaging with bottle necks ( <a href="#">B67C3/26</a> takes precedence)]
B67C3/24D	. . . .	[N: Bottle lifting devices actuated by jacks, e.g. hydraulic, pneumatic ( <a href="#">B67C3/24B</a> takes precedence)]
B67C3/24E	. . . .	[N: Bottle lifting devices actuated by cams ( <a href="#">B67C3/24B</a> takes precedence)]
B67C3/24G	. . . .	[N: Bottle lifting devices actuated by threads <a href="#">B67C3/24B</a> takes precedence] [N0406]
B67C3/26	. . .	Filling-heads; Means for engaging filling-heads with bottle necks
B67C3/26B	. . . .	[N: comprising anti-dripping means]
B67C3/26B2	. . . . .	[N: to prevent dripping from sources other than the filling product, e.g. deflectors for vapours condensed on the outer surface of the filling device][N0403]
B67C3/26C	. . . .	[N: specially adapted for counter-pressure filling]
B67C3/26C2	. . . . .	[N: the liquid valve being opened by mechanical or electrical actuation]
B67C3/26C2B	. . . . .	[N: and the filling operation stopping when the liquid rises to a level at which it closes a vent opening]
B67C3/26C2D	. . . . .	[N: and the filling operation stopping when probes, e.g. electrical or optical probes, sense the wanted liquid level ( <a href="#">level control in general G01F</a> )]
B67C3/26C4	. . . . .	[N: the liquid valve being opened automatically when a given counter-pressure is obtained in the container to be filled]
B67C3/26C4B	. . . . .	[N: and the filling operation stopping when the liquid rises to a level at which it closes a vent opening]
B67C3/26C4D	. . . . .	[N: and the filling operation stopping when probes, e.g. electrical or optical probes, sense the wanted liquid level ( <a href="#">level control in general G01F</a> )]
B67C3/26D	. . . .	[N: specially adapted for vacuum or suction filling]
B67C3/26E	. . . .	[N: comprising a liquid valve opened by relative movement between the container and the filling head]
B67C3/26E2	. . . . .	[N: and the filling operation being carried out manually]
B67C3/26F	. . . .	[N: specially adapted for sterilising prior to filling] [N9411]
B67C3/28	. . .	Flow-control devices, e.g. using valves ([N: <a href="#">B67C3/26C2</a> , <a href="#">B67C3/26C4</a> , <a href="#">B67C3/26E</a> take precedence]; <a href="#">valves in general F16K</a> )
B67C3/28B	. . . .	[N: Profiled valve bodies for smoothing the flow at the outlet of the filling nozzle] [N9810]
B67C3/28D	. . . .	[N: related to filling level control ( <a href="#">B67C3/26C2</a> , <a href="#">B67C3/26C4</a> take precedence)] [N0812]
B67C3/28D2	. . . . .	[N: using pressure sensing means] [N0812]
B67C3/28D4	. . . . .	[N: using non-liquid contact sensing means ( <a href="#">B67C3/28D2</a> takes precedence)] [N0812]
B67C3/28D6	. . . . .	[N: using liquid contact sensing means ( <a href="#">B67C3/28D2</a> takes precedence)]

	[N0812]
B67C3/28E	. . . . [N: related to flow rate control, i.e. controlling slow and fast filling phases] [N0812]
B67C3/28F	. . . . [N: related to flow control using predetermined or real-time calculated parameters] [N0812]
B67C3/28F2	. . . . . [N: using master-slave controls] [N0812]
B67C3/30	. Filling of barrels or casks
B67C3/32	. . using counterpressure, i.e. filling while the container is under pressure
B67C3/34	. . Devices for engaging filling-heads with filling-apertures
<b>B67C7/00</b>	<b>Concurrent cleaning, filling, and closing of bottles; Processes or devices for at least two of these operations</b>
B67C7/00B	. [N: Conveying; Synchronising] [C9411]
B67C7/00B2	. . [N: Synchronising] [N0203]
B67C7/00B4	. . [N: General lay-out of bottle-handling machines] [N0203]
B67C7/00B6	. . [N: the containers travelling along a linear path] [N0203]
B67C7/00B6B	. . . [N: the operation being performed batch-wise] [N0203]
B67C7/00B8	. . [N: the containers travelling along a circular path] [N0203]
B67C7/00B8B	. . . [N: Infeed and outfeed devices] [N0203]
B67C7/00B8B2	. . . . [N: using grippers (for supporting bottle necks during filling <a href="#">B67C3/24B</a> )] [N0203]
B67C7/00C	. [N: Sterilising, aseptic filling and closing ( <a href="#">B67C3/26F</a> takes precedence)] [N9411]
B67C7/00C2	. . [N: comprising a cleaning step between two closing steps] [N0101]
B67C7/00C4	. . [N: Sterilisation being restricted to the area of application of the closure] [N0104]
B67C7/00D	. [N: Lever action devices operated by hand or foot] [N9908]
<b>B67C9/00</b>	<b>Devices for emptying bottles, not otherwise provided for</b> [N: during preparation of alcoholic beverages except beer <a href="#">C12G1/00</a> ]
<b>B67C11/00</b>	<b>Funnels, e.g. for liquids</b> (filter funnels <a href="#">B01D23/28</a> ; volume flow-meters <a href="#">G01F</a> )
B67C11/02	. without discharge valves
B67C11/04	. with non-automatic discharge valves
B67C11/06	. with automatic discharge valves
B67C11/06B	. . [N: for preventing spilling or dripping] [N1110]
B67C11/06D	. . [N: for preventing overflow of the filled container] [N1110]