### CPC  COOPERATIVE PATENT CLASSIFICATION

**B**  PERFORMING OPERATIONS; TRANSPORTING  
**(NOTES omitted)**

#### TRANSPORTING

**B67**  OPENING, CLOSING {OR CLEANING} BOTTLES, JARS OR SIMILAR CONTAINERS; LIQUID HANDLING (nozzles in general B05B; packaging liquids B65B, e.g. B65B 3/00; pumps in general F04; siphons F04F 10/00; valves F16K; handling liquefied gases F17C)

**B67D**  DISPENSING, DELIVERING OR TRANSFERRING LIQUIDS, NOT OTHERWISE PROVIDED FOR (cleaning pipes or tubes or systems of pipes or tubes B08B 9/02; emptying or filling of bottles, jars, cans, casks, barrels, or similar containers, not otherwise provided for B67C; water supply E03; pipe systems F17D; domestic hot-water supply systems F24D; measuring volume, volume flow, mass flow or liquid level, metering by volume G01F; coin-freed or like apparatus G07F)

**WARNING**

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<table>
<thead>
<tr>
<th>1/00</th>
<th>Apparatus or devices for dispensing beverages on draught</th>
<th>1/0018 . . . . [based on the timed opening of a valve]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/007</td>
<td>. . . . [based on volumetric dosing]</td>
<td>1/0019 . . . . [based on volumetric dosing]</td>
</tr>
<tr>
<td>1/008</td>
<td>. . . . [based on weighing]</td>
<td>1/002 . . . . [based on weighing]</td>
</tr>
<tr>
<td>1/009</td>
<td>. . . . [the beverage being stored in an intermediate container connected to a supply]</td>
<td>1/0021 . . . . [the components being mixed at the time of dispensing, i.e. post-mix dispensers]</td>
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<tr>
<td>1/001</td>
<td>. . . . [the apparatus comprising means for automatically controlling the amount to be dispensed]</td>
<td>1/0022 . . . . [the apparatus comprising means for automatically controlling the amount to be dispensed]</td>
</tr>
<tr>
<td>1/006</td>
<td>. . . . [based on the timed opening of a valve]</td>
<td>1/0023 . . . . [control of the amount of the mixture, i.e. after mixing]</td>
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<tr>
<td>1/007</td>
<td>. . . . [based on volumetric dosing]</td>
<td>1/0024 . . . . [based on the timed opening of a valve]</td>
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<tr>
<td>1/008</td>
<td>. . . . [based on weighing]</td>
<td>1/0025 . . . . [based on volumetric dosing]</td>
</tr>
<tr>
<td>1/009</td>
<td>. . . . [the beverage being stored in an intermediate container connected to a supply]</td>
<td>1/0026 . . . . [based on weighing]</td>
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<tr>
<td>1/001</td>
<td>. . . . [the apparatus comprising means for automatically controlling the amount to be dispensed]</td>
<td>1/0027 . . . . [control of the amount of one component, the amount of the other component(s) being dependent on that control]</td>
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<tr>
<td>1/006</td>
<td>. . . . [based on the timed opening of a valve]</td>
<td>1/0028 . . . . [based on the timed opening of a valve]</td>
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<td>1/007</td>
<td>. . . . [based on volumetric dosing]</td>
<td>1/0029 . . . . [based on volumetric dosing]</td>
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<tr>
<td>1/003</td>
<td>. . . . [by means of a dosing chamber]</td>
<td>1/0031 . . . . [in the form of a metering pump]</td>
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<tr>
<td>1/005</td>
<td>. . . . [the apparatus comprising means for automatically controlling the amount to be dispensed]</td>
<td>1/0032 . . . . [using flow-rate sensors]</td>
</tr>
<tr>
<td>1/011</td>
<td>. . . . [based on the timed opening of a valve]</td>
<td>1/0033 . . . . [based on weighing]</td>
</tr>
<tr>
<td>1/012</td>
<td>. . . . [based on volumetric dosing]</td>
<td>1/0034 . . . . [for controlling the amount of each component]</td>
</tr>
<tr>
<td>1/013</td>
<td>. . . . [based on weighing]</td>
<td>1/0035 . . . . [the controls being based on the same metering technics]</td>
</tr>
<tr>
<td>1/014</td>
<td>. . . . [the beverage being supplied from water mains]</td>
<td>1/0036 . . . . [based on the timed opening of valves]</td>
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<tr>
<td>1/015</td>
<td>. . . . [the beverage being prepared by mixing at least two liquid components]</td>
<td>1/0037 . . . . [based on volumetric dosing]</td>
</tr>
<tr>
<td>1/016</td>
<td>. . . . [the beverage being stored in an intermediate container before dispensing, i.e. pre-mix dispensers]</td>
<td>1/0038 . . . . [based on weighing]</td>
</tr>
<tr>
<td>1/017</td>
<td>. . . . [the apparatus comprising means for automatically controlling the amount to be dispensed]</td>
<td>1/0039 . . . . [the controls involving at least two different metering technics]</td>
</tr>
</tbody>
</table>

(CPC - 2019.02)
Details of specific parts of the dispensers
Mixing devices for liquids
for mixing inside the dispensing nozzle
(Venturi arrangements; Aspirators; Eductors)
Mixing chambers
(with movable parts, e.g. for stirring)
(with baffles)
(with means for diverging streams)
(with means for converging streams)
(for mixing outside the nozzle)
(by means for directing respective streams together)
(by stirring in the cup)
(Recirculation means)
(with fountain effect)
(with illumination)
(Carbonators)
(In-line carbonators)
[in combination with a mixer tap (constructional features of the tap E03C 1/04)]
(Conventional carbonators)
(with cooling means)
[inside the carbonator]
(Cooling coil)
(Cold plate)
(Ice bank)
[outside the carbonator]
(Cooling coil)
(Cooling bath)
[Details]
[Structure of the carbonating chamber]
(by injecting CO₂ in the liquid)
[through a diffuser, a bubbler]
[Carbonating by spraying the liquid]
[Automatic carbonation control]
(by sensing gas pressure)
(by sensing temperature)
[Carbonator being specially adapted for adding a second gas to the CO₂]
[Ingredient cartridges]
(having their own dispensing means)
(Gas cartridges or bottles)
(Dispensing valves)
[entirely mechanical]
(with means for separately dispensing a single or a mixture of drinks)
(Hand-held gun type valves)
[electro-mechanical]
(Hand-held gun type valves)
[being mounted on the dispenser housing]
[operated by push buttons]
[operated by lever means]
[operated by cup detection]
(Component storage means]
(Containers for gas, for, e.g. CO₂, N₂)
(Valves)
[Valve mountings in dispensers]
(Constructional details)
(Means for pressurizing liquid)
(using a pump)
2001/009
2001/008
2001/007
2001/006
2001/005
2001/004
2001/003
2001/002
2001/001
2001/000

Beer engines or like manually-operable pumping apparatus
(with means for carbonating the beverage, or for maintaining its carbonation)
Apparatus utilising compressed air or other gas acting directly or indirectly on beverages in storage containers
(with means for carbonating the beverage, or for maintaining its carbonation) *(B67D 1/0418 takes precedence)*
(the whole dispensing unit being fixed to the container)
[comprising a CO₂ cartridge for dispensing and carbonating the beverage]
[comprising an air pump system]
[power-operated]
[comprising a gas pressure space within the container for the liquid]
[comprising a gas generator (apparatus for generating gases in general B01J 7/00)]
(using elastic bags and pistons actuated by air or other gas)
(Siphons, i.e. beverage containers under gas pressure without supply of further pressurised gas during dispensing)
[Squeezing collapsible or flexible beverage containers, e.g. bag-in-box containers]
[comprising means for the recovery of the gas acting on beverages]
(Type of gas or gas mixture used, other than pure CO₂)
(Single inert gas, e.g. N₂)
[Mixture of gases, e.g. N₂ + CO₂]
[Air]
Mountings or arrangements of dispensing apparatus in or on shop or bar counters *(shop or bar counters per se A47F 9/00)*
Cleaning beverage-dispensing apparatus *(B67D 1/0834, B67D 1/0837 take precedence)*
(Sanitising or sterilising the apparatus)
[Details]
[of beverage containers, e.g. casks, kegs]
[Dip tubes]
[Shape or materials]
[Openings for filling]
[Openings for emptying, e.g. taped openings]
[Closing means, e.g. bungholes, barrel bungs]
[Opening means, e.g. means for assisting the opening]
[provided with coded information]
[Bottles, cartridgges or similar containers]
(for upside down use)
[with integral venting tube]
[with a venting orifice]
[arranged in series]
[arranged in parallel]
[having different compartments for different components]
[Pressurised rigid containers, e.g. kegs, figals]
[dip tubes]
[details of dip tube]
[Bags in box]
1/0841 . . . . [Details]
1/0842 . . . . [Multiple connectors, e.g. for simultaneously connecting several containers]
1/0844 . . . . [for containers in crates]
1/0845 . . . . [Security means]
1/0847 . . . . [Tamper-evident devices]
1/0848 . . . . [Locking means]
1/0849 . . . . [provided with means to open the keg valve when gas pressure is applied to it]
1/0851 . . . . [composed of a piston and ram assembly, e.g. tappet]
1/0852 . . . . [composed of a membrane and ram assembly]
1/0854 . . . . [provided with means to open the keg valve when water pressure is applied to it]
1/0855 . . . . [concerning the used flowmeter (flowmeter per se G01F I00; G01F 30/00)]
1/0857 . . . . [Cooling arrangements (cooling systems per se F25B)]
1/0858 . . . . [using compression systems]
1/0859 . . . . [the evaporator being in direct heat contact with the beverage, e.g. placed inside a beverage container]
1/0861 . . . . [the evaporator acting through an intermediate heat transfer means]
1/0862 . . . . [in the form of a cold plate or a cooling block]
1/0864 . . . . [in the form of a cooling bath]
1/0865 . . . . [by circulating a cooling fluid along beverage supply lines, e.g. pythons]
1/0867 . . . . [the cooling fluid being a liquid]
1/0868 . . . . [the cooling fluid being a gas]
1/0869 . . . . [using solid state elements, e.g. Peltier cells]
1/0871 . . . . [Level gauges for beverage storage containers (level indicators in general G01F)]
1/0872 . . . . [Aesthetics, advertising]
1/0874 . . . . [Means for illuminating the handle of taps or faucets]
1/0875 . . . . [Means for illuminating the beverage to be dispensed]
1/0877 . . . . [Advertising means (advertising in general G09F)]
1/0878 . . . . [Safety, warning or controlling devices (B67D 1/12 takes precedence)]
1/0879 . . . . [Doors for protecting the vessel to be filled]
1/0881 . . . . [Means for counting the doses of dispensed liquid]
1/0882 . . . . [Devices for controlling the dispensing conditions]
1/0884 . . . . [Means for controlling the parameters of the state of the liquid to be dispensed, e.g. temperature, pressure]
1/0885 . . . . [Means for dispensing under specific atmospheric conditions, e.g. under inert gas]
1/0887 . . . . [Sanitary protection means for dispensing nozzles or taps, e.g. outlet closures]
1/0888 . . . . [Means comprising electronic circuitry (e.g. control panels, switching or controlling means)]
1/0889 . . . . [Supports]
1/0891 . . . . [for the beverage container]
1/0892 . . . . [the beverage container being stored in a rack or shelf]
1/0894 . . . . [for the vessel to be filled]
1/0895 . . . . [Heating arrangements]
1/0897 . . . . [located in nozzles]
1/0898 . . . . [Beer warmers (B67D 1/0897 takes precedence)]
1/10 . . . . Pump mechanism (in general F04)
1/101 . . . . [of the piston-cylinder type]
1/102 . . . . [for one liquid component only]
1/103 . . . . [the piston being driven by a liquid or a gas]
1/104 . . . . . . [by the liquid to be dispensed]
1/105 . . . . . . [for two or more components]
1/106 . . . . . . [the piston being driven by a liquid or a gas]
1/107 . . . . . . [by one of the components to be dispensed]
1/108 . . . . [of the peristaltic type]
1/12 . . . . Flow or pressure control devices or systems [as for the vessel to be filled] or mixture ratio of liquids to be dispensed]
1/1202 . . . . [Flow control, e.g. for controlling total amount of the beverage container]
1/1204 . . . . [for ratio control purposes]
1/1206 . . . . [Flow detectors]
1/1209 . . . . [combined with a timer]
1/1211 . . . . [Flow rate sensor]
1/1213 . . . . [combined with a timer]
1/1215 . . . . [combined with a counter]
1/1218 . . . . [modulating the opening of a valve]
1/122 . . . . [modulating a pumping rate]
1/1222 . . . . [Pressure gauges]
1/1225 . . . . [Weighing]
1/1227 . . . . [the cup to be filled]
1/1229 . . . . [the storage container]
1/1231 . . . . [Metering pumps]
1/1234 . . . . [to determine the total amount]
1/1236 . . . . [comprising means for detecting the size of vessels to be filled]
1/1238 . . . . [comprising means for detecting the liquid level in vessels to be filled, e.g. using ultrasonic waves, optical reflection, probes]
1/124 . . . . . . [the flow being started or stopped by means actuated by the vessel to be filled, e.g. by switches, weighing]
1/1243 . . . . [comprising flow or pressure sensors, e.g. for controlling pumps]
1/1245 . . . . [Change-over devices, i.e. connecting a flow line from an empty container to a full one]
B67D

1/1247 . . . [Means for detecting the presence or absence of liquid]
1/125 . . . . [Safety means, e.g. over-pressure valves]
1/1252 . . . [Gas pressure control means, e.g. for maintaining proper carbonation (for beer engines B67D 1/025)]

2001/1254 . . . [comprising means for making a mixture of gases]
1/1256 . . . . [Anti-dripping devices (drip trays B67D 1/16)]
2001/1259 . . . [Fluid level control devices]
2001/1261 . . . . [the level being detected mechanically]
2001/1263 . . . . [the level being detected electrically]
2001/1265 . . . [Pressure switches]
2001/1268 . . . . [Capacitors]
1/127 . . . . . [Froth control (B67D 1/1411 takes precedence)]
1/1272 . . . . . . [preventing froth]
1/1275 . . . . . . . [promoting froth]
1/1277 . . . . . . . . [Flow control valves]
1/1279 . . . . . . . . . . [regulating the flow]
1/1281 . . . . . . . . . . . . [responsive to pressure]
1/1284 . . . . . . . . . . . . . [Ratio control]
1/1286 . . . . . . . . . . . . . . [by mechanical construction]
1/1288 . . . . . . . . . . . . . . . . . [Multi-chamber piston pumps (construction of pumps: B67D 1/10)]
1/129 . . . . . . . . . . . . . . . . . . [Means for changing the ratio by acting on structural parts]
1/1293 . . . . . . . . . . . . . . . . . . . [Means for changing the ratio by acting on commands]
1/1295 . . . . . . . . . . . . . . . . . . . . [Ratio defined by setting flow controllers]
1/1297 . . . . . . . . . . . . . . . . . . . . . . [Ratio defined by setting of timers]
1/14 . . . . . . Reducing valves or control taps
1/1405 . . . . . . . . . . . . . . . . [Control taps]
1/1411 . . . . . . . . . . . . . . . . . . . [Means for controlling the build-up of foam in the container to be filled]
1/1416 . . . . . . . . . . . . . . . . . . . . [comprising foam inducing means]
1/1422 . . . . . . . . . . . . . . . . . . . . . . [comprising foam avoiding means]
1/1427 . . . . . . . . . . . . . . . . . . . . . . . [by rotating the container to be filled]
1/1433 . . . . . . . . . . . . . . . . . . . . . . . . [by delivering the beverage using a helical movement]
1/1438 . . . . . . . . . . . . . . . . . . . . [comprising a valve shutter movable in a direction parallel to the valve seat, e.g. sliding or rotating]
1/1444 . . . . . . . . . . . . . . . . . . . . . [the valve shutter being rotated]
1/145 . . . . . . . . . . . . . . . . . . . . . . . [comprising a valve shutter movable in a direction perpendicular to the valve seat]
1/1455 . . . . . . . . . . . . . . . . . . . . . . . . [the valve shutter being opened in the same direction as the liquid flow]
1/1461 . . . . . . . . . . . . . . . . . . . . . . . . . [the valve shutter being integral with a compensator]
1/1466 . . . . . . . . . . . . . . . . . . . . . . . . . . [the valve shutter being opened in a direction opposite to the liquid flow]
1/1472 . . . . . . . . . . . . . . . . . . . . . . . . . . . [the valve shutter being integral with a compensator]
1/1477 . . . . . . . . . . . . . . . . . . . . . . . . . . . [Devices for assisting tap handling, e.g. levers]
2001/1483 . . . [electrically or electro-mechanically operated]
2001/1488 . . . [pneumatically operated]
2001/1494 . . . . [Taps with means for adjusting the position of a compensator from outside]

1/16 . . . . Devices for collecting spilled beverages

1/165 . . . . . [and re-injecting them in the dispensing line]
3/00 Apparatus or devices for controlling flow of liquids under gravity from storage containers for dispensing purposes (separating and dispensing metered quantities of liquids G01F)
3/0003 . . . . . . [provided with automatic fluid control means]
3/0006 . . . . . . . [responsive to coded information provided on the neck or spout of the storage container, e.g. bar-code, magnets or transponder]
3/0009 . . . . . . . [provided with cooling arrangements (cooling perse E25)]
3/0012 . . . . . . . [provided with mixing devices]
3/0016 . . . . . [Mixing valves or taps]
3/0019 . . . . . . . [using ingredient cartridges]
3/0022 . . . . [provided with heating arrangements]
3/0025 . . . . . . . [provided with dispensing valves actuated by the receptacle to be filled (B67D 302 takes precedence)]
3/0029 . . . . . [provided with holders for bottles or similar containers]
3/0032 . . . . . [the bottle or container being held upside down and provided with a closure, e.g. a cap, adapted to cooperate with a feed tube]
3/0035 . . . . . . . [the bottle or container being held upside down and not provided with a closure, e.g. a bottle screwed onto a base of a dispenser]
3/0038 . . . . . . [the liquid being stored in an intermediate container prior to dispensing]
3/0041 . . . . . [with provisions for metering the liquid to be dispensed]
3/0045 . . . . . [by filling a predetermined volume before dispensing]
3/0048 . . . . . [using siphoning arrangements]
3/0051 . . . [dispensing by tilting]
3/0054 . . [Mounting or arrangements of dispensing apparatus in shops or bar counters]
3/0058 . . . . [Details]
3/0061 . . . . [of liquid containers, e.g. filling, emptying, closing or opening means]
3/0064 . . . . . [Dip tubes]
3/0067 . . . . [relating to shape or materials, e.g. bag-in-box packages [BIB], pouches]
3/007 . . . . . [containers with adjustable volume]
3/0074 . . . [Safety or warning devices]
3/0077 . . [Electronic circuitry]
3/008 . . . [Supports]
3/0083 . . . . . [for the liquid container]
3/0087 . . . . . [the beverage container being stored in a rack or shelf]
3/009 . . . . . [for the vessel to be filled]
3/0093 . . . . . [Level indicators]
3/0096 . . . . [Aesthetics, advertising]
3/02 Liquid-dispensing valves having operating members arranged to be pressed upwards, e.g. by the rims of receptacles held below the delivery orifice
3/04 Liquid-dispensing taps or cocks adapted to seal and open tapping holes of casks, e.g. for beer (closures with filling and discharging devices for containers B65D 4700)
3/041 . . . . [operated by pinching action on flexible tubes]
3/042 . . . . [operated by deforming a membrane-like closing element]
Apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers, e.g. for retail sale purposes

- B67D 1/28

7/00

7/002 . . . [using articulated pipes]
7/005 . . . [Spouts]
7/007 . . . [siphoning arrangements]
7/02 . . . for transferring liquids other than fuel or lubricants
7/0205 . . . [by manually operable pumping apparatus (hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials B05B 11/00)]
7/0211 . . . [with pump locking means]
7/0216 . . . [by squeezing collapsible or flexible storage containers (B67D 7/0255 takes precedence; for dispensing beverages on draught B67D 1/0001)]
7/0222 . . . [the dispensed quantity of liquid being replaced by air sucked through the dispensing opening]
7/0227 . . . [by an ejection plunger (B67D 7/0238 takes precedence)]
7/0233 . . . [the plunger being gas driven]
7/0238 . . . [utilising compressed air or other gas acting directly or indirectly on liquids in storage containers (for dispensing beverages on draught B67D 1/04)]
7/0244 . . . [by using elastic expandable bags]
7/025 . . . [specially adapted for transferring liquids of high purity]
7/0255 . . . [squeezing collapsible or flexible storage containers (for dispensing beverages on draught B67D 1/0462)]
7/0261 . . . [specially adapted for transferring liquids of high purity]
7/0266 . . . [by gas acting directly on the liquid]
7/0272 . . . [specially adapted for transferring liquids of high purity]
7/0277 . . . [using negative pressure]
7/0283 . . . [specially adapted for transferring liquids of high purity]
7/0288 . . . [Container connection means (for dispensing beverages on draught B67D 1/0829)]
7/0294 . . . [Combined with valves]
7/04 . . . for transferring fuels, lubricants or mixed fuels and lubricants
7/0401 . . . [arrangements for automatically fuelling vehicles, i.e. without human intervention]
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Details or accesses...
liquids to be transferred (coin-freed apparatus)

Devices for mixing two or more different

forcing liquid to delivery point

Devices for applying air or other gas pressure for

Arrangements of pumps

movement G01P 13/00

or recording presence, absence or direction of

compartments, windows, rotary vanes (indicating

Arrangements of flow-indicators, e.g. transparent

Filling nozzles

{ for obtaining fuel of a given octane level }

{ involving means responsive to the octane level, e.g. octane sensor, knock engine }

{ by mixing fuel with additives, e.g. anti-knocking agents }

{ involving means responsive to the octane level, e.g. octane sensor, knock engine }

{ for delivering at least two different liquids into separate containers }

automatically closing

{ after a predetermined time }

when liquid in container to be filled reaches a

predetermined level

{ Electrical probes sensing the level of the liquid }

by making use of air suction through an

opening closed by the rising liquid

and provided with an additional hand lever

and provided with additional flow-controlling valve means

with means for preventing escape of liquid or

vapour or for recovering escaped liquid or vapour (B67D 7/425 takes precedence)

{ Additional means for preventing dispensing of liquid by incorrect sealing engagement with the tank opening of the vapour recovering means, e.g. bellows, shrouds }

Arrangements of flow-indicators, e.g. transparent compartments, windows, rotary vanes (indicating or recording presence, absence or direction of movement G01P 13/00)

{ for indicating end of flow, e.g. by optical or audible signals }

Arrangements of pumps

manually operable

power operated

of piston type

{ Barrel pumps }

of rotary type

submerged in storage tank or reservoir

of two or more pumps in series or parallel

Devices for applying air or other gas pressure for forcing liquid to delivery point

{ using negative pressure }

Devices for mixing two or more different liquids to be transferred (coin-freed apparatus G01F 13/006)

{ mechanically operated }

{ involving mechanical counters, e.g. of clock-work type }

{ electrically or electro-mechanically operated }

{ involving digital counting }

{ for obtaining fuel of a given octane level }

{ by mixing different fuel grades or fuel and oil }

Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B 27/00)

using articulated pipes

Subject matter not provided for in other groups of this subclass
Cup dispensers related to bartenders
Access code recognition means
Selector circuits
Remote control means, e.g. by electromagnetic signals
Bar management means
Ergonomics
Handling of storage containers
Temperature control
Heating only
Cooling only
by spraying fluids on the inner or outer surfaces of the receptacles to be filled
The sprayed fluid being a liquid
The sprayed fluid being a gas
The sprayed fluid being a cryogen
Heating and cooling
related to concentrate handling
Preparing a mix of concentrates
Treating or conditioning the concentrate, e.g. by heating, freezing
relating to outdoor use; movable; portable
wearable by a person, e.g. as a backpack or helmet
vehicle carried
Trolleys
Other parts
Magnets, e.g. used in valves or for stirring
Component storage means
Fixed containers to be filled in situ
Automatically
Level detected by a float
Level detected electrically by contact with sensors
Adapted for dispensing high viscosity products
Agitators
Heated tubes