B67D

OPENING, CLOSING {OR CLEANING} BOTTLES, JARS OR SIMILAR CONTAINERS; LIQUID HANDLING

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.

1/00
Apparatus or devices for dispensing beverages on draught {B67D 3/00 takes precedence; apparatus for making beverages A47J 31/00)

1/001
{ by squeezing collapsible or flexible storage containers {B67D 1/0462 takes precedence}}

1/002
{ specially adapted to be used in microgravity conditions, e.g. in outer space}

1/003
{ the beverage being a single liquid {B67D 1/02, B67D 1/04 take precedence; drinking fountains E03B 9/20}}

1/004
{ the beverage being stored in a container, e.g. bottle, cartridge, bag-in-box, bowl}

1/005
{ the apparatus comprising means for automatically controlling the amount to be dispensed}

1/006
{ based on the timed opening of a valve}

1/007
{ based on volumetric dosing}

1/008
{ based on weighing}

1/009
{ the beverage being stored in an intermediate container connected to a supply}

1/001
{ the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0011
{ based on the timed opening of a valve}

1/0012
{ based on volumetric dosing}

1/0013
{ based on weighing}

1/0014
{ the beverage being supplied from water mains}

1/0015
{ the beverage being prepared by mixing at least two liquid components}

1/0016
{ the beverage being stored in an intermediate container before dispensing, i.e. pre-mix dispensers}

1/0017
{ the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0018
{ based on the timed opening of a valve}

1/0019
{ based on volumetric dosing}

1/002
{ based on weighing}

1/0021
{ the components being mixed at the time of dispensing, i.e. post-mix dispensers}

1/0022
{ the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0023
{ control of the amount of the mixture, i.e. after mixing}

1/0024
{ based on the timed opening of a valve}

1/0025
{ based on volumetric dosing}

1/0026
{ based on weighing}

1/0027
{ control of the amount of one component, the amount of the other component(s) being dependent on that control}

1/0028
{ based on the timed opening of a valve}

1/0029
{ based on volumetric dosing}

1/003
{ by means of a dosing chamber}

1/0031
{ in the form of a metering pump}

1/0032
{ using flow-rate sensors}

1/0033
{ based on weighing}

1/0034
{ for controlling the amount of each component}

1/0035
{ the controls being based on the same metering technics}

1/0036
{ based on the timed opening of valves}

1/0037
{ based on volumetric dosing}

1/0038
{ based on weighing}

1/0039
{ the controls involving at least two different metering technics}

1/004
{ the diluent being supplied from water mains}

1/0041
{ Fully automated cocktail bars, i.e. apparatuses combining the use of packaged beverages, pre-mix and post-mix dispensers}

1/0042
{ Details of specific parts of the dispensers}

1/0043
{ Mixing devices for liquids}

1/0044
{ for mixing inside the dispensing nozzle}

1/0045
{ Venturi arrangements; Aspirators; Eductors}
Beer engines or like manually-operable pumping apparatus

APPARATUS UTILISING COMPRESSED AIR OR OTHER GAS

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 }

{ Carbonating 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 }

{ (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 }

{ using a gas }

1/02 . Beer engines or like manually-operable pumping apparatus

1/025 . [with means for carbonating the beverage, or for maintaining its carbonation]
B67D

I/0834 . . . . . (and having means for admitting a cleaning fluid)
I/0835 . . . . . [with one valve]
I/0837 . . . . . (and having means for admitting a cleaning fluid)
I/0838 . . . . . [comprising means for preventing blow-out on disassembly of the spear valve]
I/0839 . . . . . [Automatically operating handles for locking or unlocking a connector to or from a keg]
I/0841 . . . . . [Details]
I/0842 . . . . . [Multiple connectors, e.g. for simultaneously connecting several containers]
I/0844 . . . . . [for containers in crates]
I/0845 . . . . . [Security means]
I/0847 . . . . . [Tamper-evident devices]
I/0848 . . . . . [Locking means]
I/0849 . . . . . [provided with means to open the keg valve when gas pressure is applied to it]
I/0851 . . . . . [composed of a piston and ram assembly, e.g. tappet]
I/0852 . . . . . [composed of a membrane and ram assembly]
I/0854 . . . . . [provided with means to open the keg valve when water pressure is applied to it]
I/0855 . . . . . [concerning the used flowmeter (flowmeter per se G01F 1/00, G01F 3/00)]
I/0857 . . . . . [Cooling arrangements (cooling systems per se F25B)]
I/0858 . . . . . [using compression systems]
I/0859 . . . . . [the evaporator being in direct heat contact with the beverage, e.g. placed inside a beverage container]
I/0861 . . . . . [the evaporator acting through an intermediate heat transfer means]
I/0862 . . . . . [in the form of a cold plate or a cooling block]
I/0864 . . . . . [in the form of a cooling bath]
I/0865 . . . . . [by circulating a cooling fluid along beverage supply lines, e.g. pythons]
I/0867 . . . . . [the cooling fluid being a liquid]
I/0868 . . . . . [the cooling fluid being a gas]
I/0869 . . . . . [using solid state elements, e.g. Peltier cells]
I/0871 . . . . . [Level gauges for beverage storage containers (level indicators in general G01F)]
I/0872 . . . . . [Aesthetics, advertising]
I/0874 . . . . . [Means for illuminating the handle of taps or faucets]
I/0875 . . . . . [Means for illuminating the beverage to be dispensed]
I/0877 . . . . . [Advertising means (advertising in general G09F)]
I/0878 . . . . . [Safety, warning or controlling devices (B67D 1/12 takes precedence)]
I/0879 . . . . . [Doors for protecting the vessel to be filled]
I/0881 . . . . . [Means for counting the doses of dispensed liquid]
I/0882 . . . . . [Devices for controlling the dispensing conditions]
I/0884 . . . . . [Means for controlling the parameters of the state of the liquid to be dispensed, e.g. temperature, pressure]
I/0885 . . . . . [Means for dispensing under specific atmospheric conditions, e.g. under inert gas]
I/0887 . . . . . [Sanitary protection means for dispensing nozzles or taps, e.g. outlet closures]
I/0888 . . . . . [Means comprising electronic circuitry (e.g. control panels, switching or controlling means)]
I/0889 . . . . . [Supports]
I/0891 . . . . . [for the beverage container]
I/0892 . . . . . [the beverage container being stored in a rack or shelf]
I/0894 . . . . . [for the vessel to be filled]
I/0895 . . . . . [Heating arrangements]
I/0897 . . . . . [located in nozzles]
I/0898 . . . . . [Beer warmers (B67D 1/087 takes precedence)]
I/10 . . . . . . Pump mechanism (in general F04)
I/101 . . . . . . [of the piston-cylinder type]
I/102 . . . . . . [for one liquid component only]
I/103 . . . . . . [the piston being driven by a liquid or a gas]
I/104 . . . . . . [by the liquid to be dispensed]
I/105 . . . . . . [for two or more components]
I/106 . . . . . . [the piston being driven by a liquid or a gas]
I/107 . . . . . . [by one of the components to be dispensed]
I/108 . . . . . . [of the peristaltic type]
I/12 . . . . . . Flow or pressure control devices or systems [. e.g. valves, gas pressure control, level control in storage containers]
I/1202 . . . . . [Flow control, e.g. for controlling total amount or mixture ratio of liquids to be dispensed]
I/1204 . . . . . [for ratio control purposes]
I/1206 . . . . . [Flow detectors]
I/1209 . . . . . . [combined with a timer]
I/1211 . . . . . . [Flow rate sensor]
I/1213 . . . . . . [combined with a timer]
I/1215 . . . . . . [combined with a counter]
I/1218 . . . . . . [modulating the opening of a valve]
I/122 . . . . . . [modulating a pumping rate]
I/1222 . . . . . . [Pressure gauges]
I/1225 . . . . . . [Weighing]
I/1227 . . . . . . [the cup to be filled]
I/1229 . . . . . . [the storage container]
I/1231 . . . . . . [Metering pumps]
I/1234 . . . . . . [to determine the total amount]
I/1236 . . . . . . [comprising means for detecting the size of vessels to be filled]
I/1238 . . . . . . [comprising means for detecting the liquid level in vessels to be filled, e.g. using ultrasonic waves, optical reflection, probes]
I/124 . . . . . . [. the flow being started or stopped by means actuated by the vessel to be filled, e.g. by switches, weighing]
I/1243 . . . . . . [comprising flow or pressure sensors, e.g. for controlling pumps]
I/1245 . . . . . . [Change-over devices, i.e. connecting a flow line from an empty container to a full one]
I/1247 . . . . . . [Means for detecting the presence or absence of liquid]
I/125 . . . . . . [Safety means, e.g. over-pressure valves]
I/1252 . . . . . . [Gas pressure control means, e.g. for maintaining proper carbonation (for beer engines B67D 1/025)
B67D

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 . . . [electrical 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 F25)]
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 3/02 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 47/00)]
3/041 . . . [operated by pinching action on flexible tubes]
3/042 . . . [operated by deforming a membrane-like closing element]
3/043 . . . [with a closing element having a linear movement, in a direction perpendicular to the seat]
3/044 . . . [and venting means operated automatically with the tap]
3/045 . . . [with a closing element having a linear movement, in a direction parallel to the seat]
Apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers, e.g. for retail sale purposes (general disposition of plant in stations for supplying fuel to vehicles B660S 5/02; for filling or emptying locomotive water tanks, e.g. water columns, B61K 11/00; for refuelling aircraft during flight B64D 39/00; liquid handling ground installations specially adapted for fuelling stationary aircraft B64F 1/28)

7/002 . . . (using articulated pipes)
7/005 . . . (Spouts)
7/007 . . . (using 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]
2007/0403 . . . [Fuelling robots]
2007/0405 . . . [Opening devices]
2007/0407 . . . [(for fuel tank flaps]
2007/0409 . . . [using vacuum cups]
2007/0411 . . . [using grippers]
2007/0413 . . . [using air blast]
7/263 . . . [Means for condensing the vapours and reintroducing them into the storage tanks]

7/246 . . . [Performance test devices therefor]

7/243 . . . [Arrangements specially adapted for transferring biofuels, e.g. ethanol-gasoline mixture]

7/227 . . . Details or accessories

7/225 . . . [Means for transferring liquids from a chosen level of a storage container]

7/224 . . . [from the free surface level of the liquid]

7/222 . . . [Drive-off preventing means, e.g. in case of non-payment]

7/221 . . . [acting on the vehicle]

7/220 . . . [using communication means]

7/219 . . . [using imaging means, e.g. cameras]

7/218 . . . Arrangements of devices for controlling, indicating, metering or registering quantity or price of liquid transferred (arrangement of flow- or pressure-control valves B67D 7/36; computing, calculating, counting G06; coin-freed apparatus for dispensing fluids G07F 13/00; prepayment devices for metering liquids G07F 15/00)

7/208 . . . [Testing or calibrating apparatus therefore (testing or calibrating apparatus for measuring volume flow in general G01F 25/00)]

7/198 . . . operated by keys, push-buttons or cash registers

7/196 . . . [operated by keys]

7/194 . . . [operated by push-buttons]

7/192 . . . [operated by movement of delivery hose or nozzle or by devices associated therewith]

7/190 . . . responsive to input of recorded programmed information, e.g. on punched cards

7/188 . . . [by wireless communication means, e.g. RF, transponders or the like]

7/186 . . . Arrangements of liquid meters

7/184 . . . [of fixed measuring chamber type]

7/182 . . . [comprising at least two chambers]

7/180 . . . of piston type

7/178 . . . of rotary type

7/176 . . . Arrangements of indicators or registers (indicating or recording in fluid meters G01F 15/06)

7/155 . . . [using electrical or electro-mechanical means (B67D 7/224 takes precedence)]

7/135 . . . [involving digital counting]

7/115 . . . [involving price indicators]

7/113 . . . [combined with variators]

7/111 . . . [using electrical or electro-mechanical means]

7/109 . . . [using digital counting]

7/99 . . . with means for producing or issuing a receipt or record of sale

7/97 . . . [using electrical or electro-mechanical means]

7/95 . . . [involving digital counting]

7/93 . . . with resetting or zeroing means

7/91 . . . [using electrical or electro-mechanical means]

7/89 . . . [involving digital counting]

7/87 . . . with automatic means for reducing or intermittently interrupting flow before completion of delivery, e.g. to produce dribble feed

7/85 . . . with means for predetermining quantity of liquid to be transferred (B67D 7/10, B67D 7/14 take precedence)

7/83 . . . [using mechanical means (B67D 7/306 takes precedence)]

7/81 . . . [using electrical or electro-mechanical means (B67D 7/307 takes precedence)]

7/79 . . . [involving digital counting]

7/77 . . . [in function of money to be spent therefor]

7/75 . . . [using mechanical means]

7/73 . . . [using electrical or electro-mechanical means]

7/71 . . . [involving digital counting]

7/69 . . . Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid

7/67 . . . [relating to spillage or leakage, e.g. spill containment, leak detection (leak detectors for underground fuel dispensing systems G01M 3/2892)]

7/65 . . . [to emergency shut-off means]

7/63 . . . [to venting of a container during loading or unloading]

7/61 . . . [to electrostatic charges]

7/59 . . . [to the transfer method]

7/57 . . . [using a pressurised liquid acting directly or indirectly on the bulk of the liquid to be transferred]

7/55 . . . [using a pressurised gas acting directly or indirectly on the bulk of the liquid to be transferred (use of compressed air or gas for transferring liquids B67D 7/0238, B67D 7/72)]

7/53 . . . [using pumps]

7/51 . . . [Details]

7/49 . . . Means for preventing unauthorised delivery of liquid

7/47 . . . [by discriminating the kind of liquid by analysis or by physical properties, e.g. vapour-pressure]

7/45 . . . [by checking a correct coupling or coded information]

7/43 . . . [by reading a code]

7/41 . . . [by interrogating an information transmitter, e.g. a transponder (B67D 7/145 takes precedence)]

7/39 . . . Arrangements of flow- or pressure-control valves (associated with nozzles B67D 7/42)

7/37 . . . [combined with over-fill preventing means (indicating or measuring liquid level G01F 23/00; level control G05D 9/00)]

7/35 . . . [using floats]

7/33 . . . [the float acting pneumatically on a shut-off valve]

7/31 . . . Arrangements of hoses, e.g. operative connection with pump motor (hoses in general F16L 11/00]

7/29 . . . Suspending, reeling or storing devices (supports for storing lengths of hoses, in general B65H 75/34)

7/27 . . . [the hose carrier comprising a sliding unit]

7/25 . . . [the hose carrier comprising a pivoting unit]

7/23 . . . [Filling nozzles]
B67D

7/421 . . . [comprising protective covers, e.g. anti-splash attachments]
7/423 . . . [specially adapted for blending several fluids (mixing devices B67D 7/425)]
7/425 . . . [including components powered by electricity or light]
7/426 . . . [including means for displaying information, e.g. for advertising (B67D 7/425 takes precedence)]
7/428 . . . [for delivering at least two different liquids into separate containers]
7/44 . . . automatically closing
7/445 . . . [after a predetermined time]
7/46 . . . when liquid in container to be filled reaches a predetermined level
7/465 . . . . . . (Electrical probes sensing the level of the liquid)
7/48 . . . . . . by making use of air suction through an opening closed by the rising liquid
7/50 . . . . . . and provided with an additional hand lever
7/52 . . . . . . and provided with additional flow-controlling valve means
7/54 . . . with means for preventing escape of liquid or vapour or for recovering escaped liquid or vapour (B67D 7/44 takes precedence)

2007/545 . . . . . . [Additional means for preventing dispensing of liquid by incorrect sealing engagement with the tank opening of the vapour recovering means, e.g. bellows, shrouds]

7/56 . . . Arrangements of flow-indicators, e.g. transparent compartments, windows, rotary vanes (indicating or recording presence, absence or direction of movement G01P 13/00)
7/565 . . . . . . [for indicating end of flow, e.g. by optical or audible signals]

7/58 . . . Arrangements of pumps
7/60 . . . manually operable
7/62 . . . power operated
7/64 . . . of piston type
7/645 . . . . . . (Barrel pumps)
7/66 . . . of rotary type
7/68 . . . submerged in storage tank or reservoir
7/70 . . . of two or more pumps in series or parallel
7/72 . . . Devices for applying air or other gas pressure for forcing liquid to delivery point
7/725 . . . . . . [using negative pressure]
7/74 . . . Devices for mixing two or more different liquids to be transferred (coin-free apparatus G07F 13/06)
7/741 . . . . . . [mechanically operated]
7/742 . . . . . . [involving mechanical counters, e.g. of clock-work type]
7/743 . . . . . . [electrically or electro-mechanically operated]
7/744 . . . . . . [involving digital counting]
2007/745 . . . . . . [for obtaining fuel of a given octane level]
2007/746 . . . . . . [by mixing different fuel grades or fuel and oil]
2007/747 . . . . . . [involving means responsive to the octane level, e.g. octane sensor, knock engine]
2007/748 . . . . . . [by mixing fuel with additives, e.g. anti-knocking agents]
2007/749 . . . . . . [involving means responsive to the octane level, e.g. octane sensor, knock engine]

7/76 . . . . . . Arrangements of devices for purifying liquids to be transferred, e.g. of filters, of air or water separators
7/763 . . . . . . [of air separators]
7/766 . . . . . . [of water separators]
7/78 . . . Arrangements of storage tanks, reservoirs or pipelines
7/80 . . . Arrangements of heating or cooling devices for liquids to be transferred
7/82 . . . . . . Heating only
7/84 . . . Casings, cabinets or frameworks; Trolleys or like movable supports
7/845 . . . . . . [Trolleys or like movable supports]
7/86 . . . . . . Illuminating arrangements

9/00 . . . Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B 27/00)
9/02 . . . . . . using articulated pipes
99/00 . . . Subject matter not provided for in other groups of this subclass

2210/00 . . . Indexing scheme relating to aspects and details of apparatus or devices for dispensing beverages on draught or for controlling flow of liquids under gravity from storage containers for dispensing purposes

Indexing scheme relating to aspects and details of apparatus or devices for dispensing beverages on draught or for controlling flow of liquids under gravity from storage containers for dispensing purposes

2210/0002 . . . Purifying means
2210/0005 . . . Filters
2210/0007 . . . . . . for gas
2210/0001 . . . . . . for liquid
2210/0013 . . . Sterilising means
2210/0015 . . . UV radiation
2210/0018 . . . Membranes
2210/002 . . . . . . Distillators
2210/0023 . . . . . . Oxygenators
2210/0026 . . . . . . Heaters
2210/0028 . . . . . . Constructional details
2210/0031 . . . . . . Housing
2210/0034 . . . . . . Modules
2210/0036 . . . . . . . for use with or in refrigerators
2210/0039 . . . . . . . Panels
2210/0041 . . . . . . . Doors
2210/0044 . . . . . . . Insulation
2210/0047 . . . . . . . Piping
2210/0049 . . . . . . . Pipes
2210/0052 . . . . . . . with flow tranquilisers
2210/0055 . . . . . . . with turbulent flow generators, e.g. vortices
2210/0057 . . . . . . . adapted for being easily cleaned
2210/006 . . . . . . . Manifolds
2210/0062 . . . . . . . Pipe joints
2210/0065 . . . . . . . related to the use of drinking cups or glasses
2210/0068 . . . . . . . Means for filling simultaneously a plurality of cups
2210/007 . . . . . . . For use with partially pre-filled cups
2210/0073 . . . . . . . Cup cleaning devices
2210/0076 . . . . . . . Cup conveyors
2210/0078 . . . . . . . Cup dispensers
2210/0081 . . . . . . . related to bartenders
2210/0083 . . . . . . . Access code recognition means
2210/0086 . . . . . . . Selector circuits
2210/0089 . . . . . . . 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

wheeled

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