

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B67 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)	1/0021	. . {the components being mixed at the time of dispensing, i.e. post-mix dispensers}
1/0001	. {by squeezing collapsible or flexible storage containers (B67D 1/0462 takes precedence)}	1/0022	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}
1/0002	. {specially adapted to be used in microgravity conditions, e.g. in outer space}	1/0023	. . . . {control of the amount of the mixture, i.e. after mixing}
1/0003	. {the beverage being a single liquid (B67D 1/02 , B67D 1/04 take precedence; drinking fountains E03B 9/20)}	1/0024	. . . . . {based on the timed opening of a valve}
1/0004	. . {the beverage being stored in a container, e.g. bottle, cartridge, bag-in-box, bowl}	1/0025	. . . . . {based on volumetric dosing}
1/0005	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0026	. . . . . {based on weighing}
1/0006	. . . . {based on the timed opening of a valve}	1/0027	. . . . {control of the amount of one component, the amount of the other component(s) being dependent on that control}
1/0007	. . . . {based on volumetric dosing}	1/0028	. . . . . {based on the timed opening of a valve}
1/0008	. . . . {based on weighing}	1/0029	. . . . . {based on volumetric dosing}
1/0009	. . {the beverage being stored in an intermediate container connected to a supply}	1/003	. . . . . {by means of a dosing chamber}
1/001	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0031	. . . . . {in the form of a metering pump}
1/0011	. . . . {based on the timed opening of a valve}	1/0032	. . . . . {using flow-rate sensors}
1/0012	. . . . {based on volumetric dosing}	1/0033	. . . . . {based on weighing}
1/0013	. . . . {based on weighing}	1/0034	. . . . {for controlling the amount of each component}
1/0014	. . {the beverage being supplied from water mains}	1/0035	. . . . . {the controls being based on the same metering technics}
1/0015	. {the beverage being prepared by mixing at least two liquid components}	1/0036	. . . . . {based on the timed opening of valves}
1/0016	. . {the beverage being stored in an intermediate container before dispensing, i.e. pre-mix dispensers}	1/0037	. . . . . {based on volumetric dosing}
1/0017	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0038	. . . . . {based on weighing}
1/0018	. . . . {based on the timed opening of a valve}	1/0039	. . . . . {the controls involving at least two different metering technics}
1/0019	. . . . {based on volumetric dosing}	1/004	. . {the diluent being supplied from water mains}
1/002	. . . . {based on weighing}	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}

- 1/0046 {Mixing chambers}
- 1/0047 {with movable parts, e.g. for stirring}
- 1/0048 {with baffles}
- 1/0049 {with means for diverging streams}
- 1/005 {with means for converging streams}
- 1/0051 . . . {for mixing outside the nozzle}
- 1/0052 {by means for directing respective streams together}
- 1/0053 {by stirring in the cup}
- 1/0054 . . . {Recirculation means}
- 1/0055 {with fountain effect}
- 1/0056 {with illumination}
- 1/0057 . . {Carbonators}
- 1/0058 . . . {In-line carbonators}
- 1/0059 {in combination with a mixer tap
([constructional features of the tap E03C 1/04](#))}
- 1/006 . . . {Conventional carbonators}
- 1/0061 . . . {with cooling means}
- 1/0062 {inside the carbonator}
- 1/0063 {Cooling coil}
- 1/0064 {Cold plate}
- 1/0065 {Ice bank}
- 1/0066 {outside the carbonator}
- 1/0067 {Cooling coil}
- 1/0068 {Cooling bath}
- 1/0069 . . . {Details}
- 1/007 {Structure of the carbonating chamber}
- 1/0071 {Carbonating by injecting CO₂ in the liquid}
- 1/0072 {through a diffuser, a bubbler}
- 1/0073 {Carbonating by spraying the liquid}
- 1/0074 {Automatic carbonation control}
- 1/0075 {by sensing gas pressure}
- 1/0076 {by sensing temperature}
- 1/0077 {Carbonator being specially adapted for adding a second gas to the CO₂}
- 1/0078 . . {Ingredient cartridges}
- 1/0079 . . . {having their own dispensing means}
- 1/008 . . . {Gas cartridges or bottles}
- 1/0081 . . {Dispensing valves}
- 1/0082 . . . {entirely mechanical}
- 1/0083 {with means for separately dispensing a single or a mixture of drinks}
- 1/0084 {Hand-held gun type valves}
- 1/0085 . . . {electro-mechanical}
- 1/0086 {Hand-held gun type valves}
- 2001/0087 . . . {being mounted on the dispenser housing}
- 2001/0088 {operated by push buttons}
- 2001/0089 {operated by lever means}
- 2001/009 {operated by cup detection}
- 2001/0091 . {Component storage means}
- 2001/0092 . . {Containers for gas, for, e.g. CO₂, N₂}
- 2001/0093 . {Valves}
- 2001/0094 . . {Valve mountings in dispensers}
- 2001/0095 . {Constructional details}
- 2001/0096 . . {Means for pressurizing liquid}
- 2001/0097 . . . {using a pump}
- 2001/0098 . . . {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}
- 1/04 . Apparatus utilising compressed air or other gas acting directly or indirectly on beverages in storage containers
- 1/0406 . . {with means for carbonating the beverage, or for maintaining its carbonation ([B67D 1/0418 takes precedence](#))}
- 1/0412 . . {the whole dispensing unit being fixed to the container}
- 1/0418 . . . {comprising a CO₂ cartridge for dispensing and carbonating the beverage}
- 1/0425 . . . {comprising an air pump system}
- 1/0431 {power-operated}
- 1/0437 . . . {comprising a gas pressure space within the container for the liquid}
- 1/0443 . . . {comprising a gas generator ([apparatus for generating gases in general B01J 7/00](#))}
- 1/045 . . {using elastic bags and pistons actuated by air or other gas}
- 1/0456 . . {Siphons, i.e. beverage containers under gas pressure without supply of further pressurised gas during dispensing}
- 1/0462 . . {Squeezing collapsible or flexible beverage containers, e.g. bag-in-box containers}
- 1/0468 . . {comprising means for the recovery of the gas acting on beverages}
- 2001/0475 . . {Type of gas or gas mixture used, other than pure CO₂}
- 2001/0481 . . . {Single inert gas, e.g. N₂}
- 2001/0487 . . . {Mixture of gases, e.g. N₂ + CO₂}
- 2001/0493 {Air}
- 1/06 . Mountings or arrangements of dispensing apparatus in or on shop or bar counters ([shop or bar counters per se A47F 9/00](#))
- 1/07 . Cleaning beverage-dispensing apparatus ([\(B67D 1/0834, B67D 1/0837 take precedence\)](#))}
- 2001/075 . . {Sanitising or sterilising the apparatus}
- 1/08 . Details
- 1/0801 . . {of beverage containers, e.g. casks, kegs}
- 1/0802 . . . {Dip tubes}
- 1/0804 . . . {Shape or materials}
- 1/0805 . . . {Openings for filling}
- 1/0807 . . . {Openings for emptying, e.g. taped openings}
- 1/0808 . . . {Closing means, e.g. bungholes, barrel bungs}
- 1/0809 . . . {Opening means, e.g. means for assisting the opening}
- 2001/0811 . . . {provided with coded information}
- 2001/0812 . . . {Bottles, cartridges or similar containers}
- 2001/0814 {for upside down use}
- 2001/0815 {with integral venting tube}
- 2001/0817 {with a venting orifice}
- 2001/0818 {arranged in series}
- 2001/082 {arranged in parallel}
- 2001/0821 {having different compartments for different components}
- 2001/0822 . . . {Pressurised rigid containers, e.g. kegs, figals}
- 2001/0824 {with dip tubes}
- 2001/0825 {details of dip tube}
- 2001/0827 . . . {Bags in box}
- 2001/0828 {in pressurised housing}
- 1/0829 . . {Keg connection means}
- 1/0831 . . . {combined with valves}
- 1/0832 {with two valves disposed concentrically}

- 1/0834 {and having means for admitting a cleaning fluid}
- 1/0835 {with one valve}
- 1/0837 {and having means for admitting a cleaning fluid}
- 1/0838 {comprising means for preventing blow-out on disassembly of the spear valve}
- 1/0839 . . . {Automatically operating handles for locking or unlocking a connector to or from a keg}
- 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 1/00, G01F 3/00](#))}
- 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 {, e.g. valves, gas pressure control, level control in storage containers}
- 1/1202 . . . {Flow control, e.g. for controlling total amount or mixture ratio of liquids to be dispensed}
- 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 reflexion, 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}
- 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}	3/0006	. . {responsive to coded information provided on the neck or spout of the storage container, e.g. bar-code, magnets or transponder}
1/1256	. . . {Anti-dripping devices (drip trays B67D 1/16)}	3/0009	. {provided with cooling arrangements (cooling per se F25)}
2001/1259	. . . {Fluid level control devices}	3/0012	. {provided with mixing devices}
2001/1261	. . . . {the level being detected mechanically}	3/0016	. . {Mixing valves or taps}
2001/1263	. . . . {the level being detected electrically}	3/0019	. {using ingredient cartridges}
2001/1265	. . . . . {Pressure switches}	3/0022	. {provided with heating arrangements}
2001/1268	. . . . . {Capacitors}	3/0025	. {provided with dispensing valves actuated by the receptacle to be filled (B67D 3/02 takes precedence)}
1/127	. . . {Froth control (B67D 1/1411 takes precedence)}	3/0029	. {provided with holders for bottles or similar containers}
1/1272	. . . . {preventing froth}	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}
1/1275	. . . . {promoting froth}	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}
1/1277	. . . {Flow control valves}	3/0038	. {the liquid being stored in an intermediate container prior to dispensing}
1/1279	. . . . {regulating the flow}	3/0041	. {with provisions for metering the liquid to be dispensed}
1/1281	. . . . . {responsive to pressure}	3/0045	. . {by filling a predetermined volume before dispensing}
1/1284	. . . {Ratio control}	3/0048	. {using siphoning arrangements}
1/1286	. . . . {by mechanical construction}	3/0051	. {dispensing by tilting}
1/1288	. . . . . {Multi-chamber piston pumps (construction of pumps: B67D 1/10)}	3/0054	. {Mounting or arrangements of dispensing apparatus in shops or bar counters}
1/129	. . . . . {Means for changing the ratio by acting on structural parts}	3/0058	. {Details}
1/1293	. . . . . {Means for changing the ratio by acting on commands}	3/0061	. . {of liquid containers, e.g. filling, emptying, closing or opening means}
1/1295	. . . . {Ratio defined by setting flow controllers}	3/0064	. . . {Dip tubes}
1/1297	. . . . {Ratio defined by setting of timers}	3/0067	. . . {relating to shape or materials, e.g. bag-in-box packages [BIB], pouches}
1/14	. . . Reducing valves or control taps	3/007	. . . {containers with adjustable volume}
1/1405	. . . . {Control taps}	3/0074	. . {Safety or warning devices}
1/1411	. . . . . {Means for controlling the build-up of foam in the container to be filled}	3/0077	. . {Electronic circuitry}
1/1416	. . . . . . {comprising foam inducing means}	3/008	. . {Supports}
1/1422	. . . . . . {comprising foam avoiding means}	3/0083	. . . {for the liquid container}
1/1427	. . . . . . {by rotating the container to be filled}	3/0087	. . . . {the beverage container being stored in a rack or shelf}
1/1433	. . . . . . {by delivering the beverage using a helical movement}	3/009	. . . {for the vessel to be filled}
1/1438	. . . . . {comprising a valve shutter movable in a direction parallel to the valve seat, e.g. sliding or rotating}	3/0093	. . {Level indicators}
1/1444	. . . . . . {the valve shutter being rotated}	3/0096	. . {Aesthetics, advertising}
1/145	. . . . . {comprising a valve shutter movable in a direction perpendicular to the valve seat}	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
1/1455	. . . . . . {the valve shutter being opened in the same direction as the liquid flow}	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)}
1/1461	. . . . . . . {the valve shutter being integral with a compensator}	3/041	. . {operated by pinching action on flexible tubes}
1/1466	. . . . . . . {the valve shutter being opened in a direction opposite to the liquid flow}	3/042	. . {operated by deforming a membrane-like closing element}
1/1472	. . . . . . . {the valve shutter being integral with a compensator}	3/043	. . {with a closing element having a linear movement, in a direction perpendicular to the seat}
1/1477	. . . . . {Devices for assisting tap handling, e.g. levers}	3/044	. . . {and venting means operated automatically with the tap}
2001/1483	. . . . {electrically or electro-mechanically operated}	3/045	. . {with a closing element having a linear movement, in a direction parallel to the seat}
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}		

3/046	. . . {and venting means operated automatically with the tap}	2007/0415	. . . . . {for filler caps}
3/047	. . {with a closing element having a rotational movement}	2007/0417	. . . . . {Manipulator arms}
3/048	. . . {and venting means operated automatically with the tap}	2007/0419	. . . . . {Fuelling nozzles}
		2007/0421	. . . . . {with locking devices}
		2007/0423	. . . . . {Fuelling hoses}
		2007/0425	. . . . . {comprising a single hose for several fuels}
7/00	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 B60S 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)	2007/0426	. . . . . {comprising several hoses for several fuels}
		2007/0428	. . . . . {having devices to avoid a mix up of different fuels}
7/002	. {using articulated pipes}	2007/043	. . . . . {Moveable}
7/005	. {Spouts}	2007/0432	. . . . . {according to a planar coordinate system}
7/007	. {using siphoning arrangements}	2007/0434	. . . . . {with the ability to compensate movements of the car during filling}
7/02	. for transferring liquids other than fuel or lubricants	2007/0436	. . . . . {according to a spatial coordinate system}
7/0205	. . {by manually operable pumping apparatus (hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials B05B 11/00)}	2007/0438	. . . . . {with the ability to compensate movements of the car during filling}
7/0211	. . . {with pump locking means}	2007/044	. . . {Customer interfaces}
7/0216	. . {by squeezing collapsible or flexible storage containers (B67D 7/0255 takes precedence; for dispensing beverages on draught B67D 1/0001)}	2007/0442	. . . . . {interface for orders and payments}
7/0222	. . . {the dispensed quantity of liquid being replaced by air sucked through the dispensing opening}	2007/0444	. . . {Sensors}
7/0227	. . {by an ejection plunger (B67D 7/0238 takes precedence)}	2007/0446	. . . . . {measuring physical properties of the fluid to be dispensed}
7/0233	. . . {the plunger being gas driven}	2007/0448	. . . . . {Density}
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)}	2007/0449	. . . . . {Viscosity}
		2007/0451	. . . . . {Temperature}
7/0244	. . . {by using elastic expandable bags}	2007/0453	. . . . . {recognising the fuel to be dispensed}
7/025	. . . . {specially adapted for transferring liquids of high purity}	2007/0455	. . . . . {recognising the position}
7/0255	. . . {squeezing collapsible or flexible storage containers (for dispensing beverages on draught B67D 1/0462)}	2007/0457	. . . . . {of the car}
7/0261	. . . . {specially adapted for transferring liquids of high purity}	2007/0459	. . . . . {by interrogating a transponder}
7/0266	. . . {by gas acting directly on the liquid}	2007/0461	. . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
7/0272	. . . . {specially adapted for transferring liquids of high purity}		
7/0277	. . {using negative pressure}	2007/0463	. . . . . {optically}
7/0283	. . . {specially adapted for transferring liquids of high purity}	2007/0465	. . . . . {by GPS}
7/0288	. . {Container connection means (for dispensing beverages on draught B67D 1/0829)}	2007/0467	. . . . . {of the fuel tank flap and/or fuel tank opening}
7/0294	. . . {Combined with valves}	2007/0469	. . . . . {by interrogating a transponder}
7/04	. for transferring fuels, lubricants or mixed fuels and lubricants	2007/0471	. . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
7/0401	. . {arrangements for automatically fuelling vehicles, i.e. without human intervention}	2007/0473	. . . . . {optically}
2007/0403	. . . {Fuelling robots}	2007/0474	. . . . . {of the filling nozzle relative to the fuel tank opening, e.g. engagement between nozzle and tank opening}
2007/0405	. . . . {Opening devices}	7/0476	. . {Vapour recovery systems}
2007/0407	. . . . . {for fuel tank flaps}	7/0478	. . . {constructional features or components (vapour recovery nozzles B67D 7/54)}
2007/0409	. . . . . {using vacuum cups}	7/048	. . . . {Vapour flow control means, e.g. valves, pumps}
2007/0411	. . . . . {using grippers}	7/0482	. . . . . {using pumps driven at different flow rates}
2007/0413	. . . . . {using air blast}	7/0484	. . . . . {Liquid jet pumps, e.g. venturis}
		7/0486	. . . . . {Pumps driven in response to electric signals indicative of pressure, temperature or liquid flow}
		7/0488	. . . . . {Means for preventing the formation of condensation on, or for removing condensation from, vapour recovery lines}
		7/049	. . . . . {Vapour recovery methods, e.g. condensing the vapour}
		7/0492	. . . . . {Vapour storing means, e.g. dedicated ullage spaces, separate tanks}

2007/0494	. . . . {Means for condensing the vapours and reintroducing them into the storage tanks}	7/30	. . . with means for predetermining quantity of liquid to be transferred (B67D 7/10 , B67D 7/14 take precedence)
7/0496	. . . {Performance test devices therefor}	7/301	. . . . {using mechanical means (B67D 7/306 takes precedence)}
7/0498	. . {Arrangements specially adapted for transferring biofuels, e.g. ethanol-gasoline mixture}	7/302	. . . . {using electrical or electro-mechanical means (B67D 7/307 takes precedence)}
7/06	. Details or accessories	7/303	. . . . . {involving digital counting}
7/061	. . {Means for transferring liquids from a chosen level of a storage container}	7/305	. . . . . {in function of money to be spent therefor}
7/062	. . . {from the free surface level of the liquid}	7/306	. . . . . {using mechanical means}
7/064	. . {Drive-off preventing means, e.g. in case of non-payment}	7/307	. . . . . {using electrical or electro-mechanical means}
7/065	. . . {acting on the vehicle}	7/308	. . . . . {involving digital counting}
7/067	. . . {using communication means}	7/32	. . Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid
7/068	. . . {using imaging means, e.g. cameras}	7/3209	. . . {relating to spillage or leakage, e.g. spill containments, leak detection (leak detectors for underground fuel dispensing systems G01M 3/2892)}
7/08	. . 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-free apparatus for dispensing fluids G07F 13/00 ; prepayment devices for metering liquids G07F 15/00)	7/3218	. . . {relating to emergency shut-off means}
7/085	. . . {Testing or calibrating apparatus therefore (testing or calibrating apparatus for measuring volume flow in general G01F 25/00)}	7/3227	. . . {relating to venting of a container during loading or unloading}
7/10	. . . operated by keys, push-buttons or cash registers	7/3236	. . . {relating to electrostatic charges}
7/103	. . . . {operated by keys}	7/3245	. . . {relating to the transfer method}
7/106	. . . . {operated by push-buttons}	7/3254	. . . . {using a pressurised liquid acting directly or indirectly on the bulk of the liquid to be transferred}
7/12	. . . operated by movement of delivery hose or nozzle or by devices associated therewith	7/3263	. . . . {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)}
7/14	. . . responsive to input of recorded programmed information, e.g. on punched cards	7/3272	. . . . {using pumps}
7/145	. . . . {by wireless communication means, e.g. RF, transponders or the like}	7/3281	. . . {Details}
7/16	. . . Arrangements of liquid meters	2007/329	. . . . {Function indicator devices}
7/163	. . . . {of fixed measuring chamber type}	7/34	. . . Means for preventing unauthorised delivery of liquid
7/166	. . . . . {comprising at least two chambers}	7/342	. . . . {by discriminating the kind of liquid by analysis or by physical properties, e.g. vapour-pressure}
7/18	. . . . of piston type	7/344	. . . . {by checking a correct coupling or coded information}
7/20	. . . . of rotary type	7/346	. . . . . {by reading a code}
7/22	. . . Arrangements of indicators or registers (indicating or recording in fluid meters G01F 15/06)	7/348	. . . . . {by interrogating an information transmitter, e.g. a transponder (B67D 7/145 takes precedence)}
7/221	. . . . {using electrical or electro-mechanical means (B67D 7/224 takes precedence)}	7/36	. . Arrangements of flow- or pressure-control valves (associated with nozzles B67D 7/42)
7/222	. . . . . {involving digital counting}	7/362	. . . {combined with over-fill preventing means (indicating or measuring liquid level G01F 23/00 ; level control G05D 9/00)}
7/224	. . . . . {involving price indicators}	7/365	. . . . {using floats}
7/225	. . . . . {combined with variators}	7/367	. . . . . {the float acting pneumatically on a shut-off valve}
7/227	. . . . . {using electrical or electro-mechanical means}	7/38	. . Arrangements of hoses, e.g. operative connection with pump motor (hoses in general F16L 11/00)
7/228	. . . . . {using digital counting}	7/40	. . . Suspending, reeling or storing devices (supports for storing lengths of hoses, in general B65H 75/34)
7/24	. . . with means for producing or issuing a receipt or record of sale	7/403	. . . . {the hose carrier comprising a sliding unit}
7/243	. . . . . {using electrical or electro-mechanical means}	7/406	. . . . {the hose carrier comprising a pivoting unit}
7/246	. . . . . {involving digital counting}	7/42	. . Filling nozzles
7/26	. . . with resetting or zeroing means		
7/263	. . . . . {using electrical or electro-mechanical means}		
7/266	. . . . . {involving digital counting}		
7/28	. . . with automatic means for reducing or intermittently interrupting flow before completion of delivery, e.g. to produce dribble feed		

7/421	. . . {comprising protective covers, e.g. anti-splash attachments}	7/76	. . Arrangements of devices for purifying liquids to be transferred, e.g. of filters, of air or water separators
7/423	. . . {specially adapted for blending several fluids (mixing devices B67D 7/74)}	7/763	. . . {of air separators}
7/425	. . . {including components powered by electricity or light}	7/766	. . . {of water separators}
7/426	. . . {including means for displaying information, e.g. for advertising (B67D 7/425 takes precedence)}	7/78	. . Arrangements of storage tanks, reservoirs or pipe-lines
7/428	. . . {for delivering at least two different liquids into separate containers}	7/80	. . Arrangements of heating or cooling devices for liquids to be transferred
7/44	. . . automatically closing	7/82	. . . Heating only
7/445	. . . . {after a predetermined time}	7/84	. . Casings, cabinets or frameworks; Trolleys or like movable supports
7/46	. . . . when liquid in container to be filled reaches a predetermined level	7/845	. . . {Trolleys or like movable supports}
7/465	. . . . . {Electrical probes sensing the level of the liquid}	7/86	. . Illuminating arrangements
7/48	. . . . . by making use of air suction through an opening closed by the rising liquid	9/00	Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B 27/00)
7/50	. . . . and provided with an additional hand lever	9/02	. using articulated pipes
7/52	. . . . and provided with additional flow-controlling valve means	99/00	Subject matter not provided for in other groups of this subclass
7/54	. . . with means for preventing escape of liquid or vapour or for recovering escaped liquid or vapour (B67D 7/44 takes precedence)	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
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}	2210/00002	. Purifying means
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)	2210/00005	. . Filters
7/565	. . . {for indicating end of flow, e.g. by optical or audible signals}	2210/00007	. . . for gas
7/58	. . Arrangements of pumps	2210/0001	. . . for liquid
7/60	. . . manually operable	2210/00013	. . Sterilising means
7/62	. . . power operated	2210/00015	. . . UV radiation
7/64	. . . . of piston type	2210/00018	. . . Membranes
7/645	. . . . . {Barrel pumps}	2210/0002	. . . Distillators
7/66	. . . . of rotary type	2210/00023	. . . Oxygenators
7/68	. . . submerged in storage tank or reservoir	2210/00026	. . . Heaters
7/70	. . . of two or more pumps in series or parallel	2210/00028	. Constructional details
7/72	. . Devices for applying air or other gas pressure for forcing liquid to delivery point	2210/00031	. . Housing
7/725	. . . {using negative pressure}	2210/00034	. . . Modules
7/74	. . Devices for mixing two or more different liquids to be transferred (coin-freed apparatus G07F 13/06)	2210/00036	. . . . for use with or in refrigerators
7/741	. . . {mechanically operated}	2210/00039	. . . Panels
7/742	. . . . {involving mechanical counters, e.g. of clock-work type}	2210/00041	. . . Doors
7/743	. . . {electrically or electro-mechanically operated}	2210/00044	. . . Insulation
7/744	. . . . {involving digital counting}	2210/00047	. . Piping
2007/745	. . . {for obtaining fuel of a given octane level}	2210/00049	. . . Pipes
2007/746	. . . . {by mixing different fuel grades or fuel and oil}	2210/00052	. . . . with flow tranquilisers
2007/747	. . . . . {involving means responsive to the octane level, e.g. octane sensor, knock engine}	2210/00055	. . . . with turbulent flow generators, e.g. vortices
2007/748	. . . . {by mixing fuel with additives, e.g. anti-knocking agents}	2210/00057	. . . . adapted for being easily cleaned
2007/749	. . . . . {involving means responsive to the octane level, e.g. octane sensor, knock engine}	2210/0006	. . . Manifolds
		2210/00062	. . . Pipe joints
		2210/00065	. . related to the use of drinking cups or glasses
		2210/00068	. . . Means for filling simultaneously a plurality of cups
		2210/0007	. . . For use with partially pre-filled cups
		2210/00073	. . . Cup cleaning devices
		2210/00076	. . . Cup conveyors
		2210/00078	. . . Cup dispensers
		2210/00081	. . related to bartenders
		2210/00083	. . . Access code recognition means
		2210/00086	. . . Selector circuits
		2210/00089	. . . Remote control means, e.g. by electromagnetic signals

2210/00091	. . .	Bar management means
2210/00094	. .	Ergonomics
2210/00097	. . .	Handling of storage containers
2210/00099	. .	Temperature control
2210/00102	. . .	Heating only
2210/00104	. . .	Cooling only
2210/00107	. . . .	by spraying fluids on the inner or outer surfaces of the receptacles to be filled
2210/00111	. . . . .	The sprayed fluid being a liquid
2210/00112	. . . . .	The sprayed fluid being a gas
2210/00115	. . . . .	The sprayed fluid being a cryogen
2210/00118	. . .	Heating and cooling
2210/0012	. .	related to concentrate handling
2210/00123	. . .	Preparing a mix of concentrates
2210/00125	. . .	Treating or conditioning the concentrate, e.g. by heating, freezing
2210/00128	. .	relating to outdoor use; movable; portable
2210/00131	. . .	wearable by a person, e.g. as a backpack or helmet
2210/00133	. . .	wheeled
2210/00136	. . . .	vehicle carried
2210/00139	. . . .	Trolleys
2210/00141	. .	Other parts
2210/00144	. . .	Magnets, e.g. used in valves or for stirring
2210/00146	. .	Component storage means
2210/00149	. .	Fixed containers to be filled <u>in situ</u>
2210/00152	. . .	Automatically
2210/00154	. . . .	Level detected by a float
2210/00157	. . . .	Level detected electrically by contact with sensors
2210/0016	. .	Adapted for dispensing high viscosity products
2210/00163	. .	Agitators
2210/00166	. .	Heated tubes