

# CPC COOPERATIVE PATENT CLASSIFICATION

**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](#))

<b>1/00</b>	<b>Apparatus or devices for dispensing beverages on draught</b> ( <a href="#">B67D 3/00</a> takes precedence; apparatus for making beverages <a href="#">A47J 31/00</a> )	1/0028	. . . . . {based on the timed opening of a valve}
		1/0029	. . . . . {based on volumetric dosing}
1/0001	. {by squeezing collapsible or flexible storage containers ( <a href="#">B67D 1/0462</a> takes precedence)}	1/003	. . . . . {by means of a dosing chamber}
1/0002	. {specially adapted to be used in microgravity conditions, e.g. in outer space}	1/0031	. . . . . {in the form of a metering pump}
1/0003	. {the beverage being a single liquid ( <a href="#">B67D 1/02</a> , <a href="#">B67D 1/04</a> take precedence; drinking fountains <a href="#">E03B 9/20</a> )}	1/0032	. . . . . {using flow-rate sensors}
1/0004	. . {the beverage being stored in a container, e.g. bottle, cartridge, bag-in-box, bowl}	1/0033	. . . . . {based on weighing}
1/0005	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0034	. . . . . {for controlling the amount of each component}
1/0006	. . . . {based on the timed opening of a valve}	1/0035	. . . . . {the controls being based on the same metering technics}
1/0007	. . . . {based on volumetric dosing}	1/0036	. . . . . {based on the timed opening of valves}
1/0008	. . . . {based on weighing}	1/0037	. . . . . {based on volumetric dosing}
1/0009	. . {the beverage being stored in an intermediate container connected to a supply}	1/0038	. . . . . {based on weighing}
1/001	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0039	. . . . . {the controls involving at least two different metering technics}
1/0011	. . . . {based on the timed opening of a valve}	1/004	. . {the diluent being supplied from water mains}
1/0012	. . . . {based on volumetric dosing}	1/0041	. {Fully automated cocktail bars, i.e. apparatuses combining the use of packaged beverages, pre-mix and post-mix dispensers}
1/0013	. . . . {based on weighing}	1/0042	. {Details of specific parts of the dispensers}
1/0014	. . {the beverage being supplied from water mains}	1/0043	. . {Mixing devices for liquids}
1/0015	. {the beverage being prepared by mixing at least two liquid components}	1/0044	. . . {for mixing inside the dispensing nozzle}
1/0016	. . {the beverage being stored in an intermediate container before dispensing, i.e. pre-mix dispensers}	1/0045	. . . . {Venturi arrangements; Aspirators; Eductors}
1/0017	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0046	. . . . {Mixing chambers}
1/0018	. . . . {based on the timed opening of a valve}	1/0047	. . . . . {with movable parts, e.g. for stirring}
1/0019	. . . . {based on volumetric dosing}	1/0048	. . . . . {with baffles}
1/002	. . . . {based on weighing}	1/0049	. . . . . {with means for diverging streams}
1/0021	. . {the components being mixed at the time of dispensing, i.e. post-mix dispensers}	1/005	. . . . . {with means for converging streams}
1/0022	. . . {the apparatus comprising means for automatically controlling the amount to be dispensed}	1/0051	. . . {for mixing outside the nozzle}
1/0023	. . . . {control of the amount of the mixture, i.e. after mixing}	1/0052	. . . . {by means for directing respective streams together}
1/0024	. . . . . {based on the timed opening of a valve}	1/0053	. . . . . {by stirring in the cup}
1/0025	. . . . . {based on volumetric dosing}	1/0054	. . . {Recirculation means}
1/0026	. . . . . {based on weighing}	1/0055	. . . . . {with fountain effect}
1/0027	. . . . {control of the amount of one component, the amount of the other components(s) being dependent on that control}	1/0056	. . . . . {with illumination}
		1/0057	. . {Carbonators}
		1/0058	. . . {In-line carbonators}
		1/0059	. . . . {in combination with a mixer tap ( <a href="#">constructional features of the tap E03C 1/04</a> )}
		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}	2001/0475	. . {Type of gas or gas mixture used, other than pure CO <sub>2</sub> }
1/007	. . . . {Structure of the carbonating chamber}	2001/0481	. . . {Single inert gas, e.g. N <sub>2</sub> }
1/0071	. . . . {Carbonating by injecting CO <sub>2</sub> in the liquid}	2001/0487	. . . {Mixture of gases, e.g. N <sub>2</sub> + CO <sub>2</sub> }
1/0072	. . . . . {through a diffuser, a bubbler}	2001/0493	. . . . {Air}
1/0073	. . . . {Carbonating by spraying the liquid}	1/06	. Mountings or arrangements of dispensing apparatus in or on shop or bar counters ( <a href="#">shop or bar counters per se A47F 9/00</a> )
1/0074	. . . . {Automatic carbonation control}	1/07	. Cleaning beverage-dispensing apparatus ( <a href="#">B67D 1/0834</a> , <a href="#">B67D 1/0837</a> take precedence)
1/0075	. . . . . {by sensing gas pressure}	2001/075	. . {Sanitising or sterilising the apparatus}
1/0076	. . . . . {by sensing temperature}	1/08	. Details
1/0077	. . . . {Carbonator being specially adapted for adding a second gas to the CO <sub>2</sub> }	1/0801	. . {of beverage containers, e.g. casks, kegs}
1/0078	. . {Ingredient cartridges}	1/0802	. . . {Dip tubes}
1/0079	. . . {having their own dispensing means}	1/0804	. . . {Shape or materials}
1/008	. . . {Gas cartridges or bottles}	1/0805	. . . {Openings for filling}
1/0081	. . {Dispensing valves}	1/0807	. . . {Openings for emptying, e.g. taped openings}
1/0082	. . . {entirely mechanical}	1/0808	. . . {Closing means, e.g. bungholes, barrel bungs}
1/0083	. . . . {with means for separately dispensing a single or a mixture of drinks}	1/0809	. . . {Opening means, e.g. means for assisting the opening}
1/0084	. . . . . {Hand-held gun type valves}	2001/0811	. . . {provided with coded information}
1/0085	. . . {electro-mechanical}	2001/0812	. . . {Bottles, cartridges or similar containers}
1/0086	. . . . {Hand-held gun type valves}	2001/0814	. . . . {for upside down use}
2001/0087	. . . {being mounted on the dispenser housing}	2001/0815	. . . . . {with integral venting tube}
2001/0088	. . . . {operated by push buttons}	2001/0817	. . . . . {with a venting orifice}
2001/0089	. . . . {operated by lever means}	2001/0818	. . . . {arranged in series}
2001/009	. . . . {operated by cup detection}	2001/082	. . . . {arranged in parallel}
2001/0091	. {Component storage means}	2001/0821	. . . . {having different compartments for different components}
2001/0092	. . {Containers for gas, for, e.g. CO <sub>2</sub> , N <sub>2</sub> }	2001/0822	. . . {Pressurised rigid containers, e.g. kegs, figals}
2001/0093	. {Valves}	2001/0824	. . . . {with dip tubes}
2001/0094	. . {Valve mountings in dispensers}	2001/0825	. . . . {details of dip tube}
2001/0095	. {Constructional details}	2001/0827	. . . {Bags in box}
2001/0096	. . {Means for pressurizing liquid}	2001/0828	. . . . {in pressurised housing}
2001/0097	. . . {using a pump}	1/0829	. . {Keg connection means}
2001/0098	. . . {using a gas}	1/0831	. . . {combined with valves}
1/02	. Beer engines or like manually-operable pumping apparatus	1/0832	. . . . {with two valves disposed concentrically}
1/025	. . {with means for carbonating the beverage, or for maintaining its carbonation}	1/0834	. . . . . {and having means for admitting a cleaning fluid}
1/04	. Apparatus utilising compressed air or other gas acting directly or indirectly on beverages in storage containers	1/0835	. . . . {with one valve}
1/0406	. . {with means for carbonating the beverage, or for maintaining its carbonation ( <a href="#">B67D 1/0418</a> takes precedence)}	1/0837	. . . . . {and having means for admitting a cleaning fluid}
1/0412	. . {the whole dispensing unit being fixed to the container}	1/0838	. . . . {comprising means for preventing blow-out on disassembly of the spear valve}
1/0418	. . . {comprising a CO <sub>2</sub> cartridge for dispensing and carbonating the beverage}	1/0839	. . . {Automatically operating handles for locking or unlocking a connector to or from a keg}
1/0425	. . . {comprising an air pump system}	1/0841	. . . {Details}
1/0431	. . . . {power-operated}	1/0842	. . . . {Multiple connectors, e.g. for simultaneously connecting several containers}
1/0437	. . . {comprising a gas pressure space within the container for the liquid}	1/0844	. . . . {for containers in crates}
1/0443	. . . {comprising a gas generator ( <a href="#">apparatus for generating gases in general B01J 7/00</a> )}	1/0845	. . . . {Security means}
1/045	. . {using elastic bags and pistons actuated by air or other gas}	1/0847	. . . . {Tamper-evident devices}
1/0456	. . {Siphons, i.e. beverage containers under gas pressure without supply of further pressurised gas during dispensing}	1/0848	. . . . {Locking means}
1/0462	. . {Squeezing collapsible or flexible beverage containers, e.g. bag-in-box containers}	1/0849	. . . . {provided with means to open the keg valve when gas pressure is applied to it}
1/0468	. . {comprising means for the recovery of the gas acting on beverages}	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}
- 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}	3/0045	. . {by filling a predetermined volume before dispensing}
1/1297	. . . . {Ratio defined by setting of timers}	3/0048	. {using siphoning arrangements}
1/14	. . . Reducing valves or control taps	3/0051	. {dispensing by tilting}
1/1405	. . . . {Control taps}	3/0054	. {Mounting or arrangements of dispensing apparatus in shops or bar counters}
1/1411	. . . . . {Means for controlling the build-up of foam in the container to be filled}	3/0058	. {Details}
1/1416	. . . . . {comprising foam inducing means}	3/0061	. . {of liquid containers, e.g. filling, emptying, closing or opening means}
1/1422	. . . . . {comprising foam avoiding means}	3/0064	. . . {Dip tubes}
1/1427	. . . . . {by rotating the container to be filled}	3/0067	. . . {relating to shape or materials, e.g. bag-in-box packages [BIB], pouches}
1/1433	. . . . . {by delivering the beverage using a helical movement}	3/007	. . . {containers with adjustable volume}
1/1438	. . . . . {comprising a valve shutter movable in a direction parallel to the valve seat, e.g. sliding or rotating}	3/0074	. . {Safety or warning devices}
1/1444	. . . . . {the valve shutter being rotated}	3/0077	. . {Electronic circuitry}
1/145	. . . . . {comprising a valve shutter movable in a direction perpendicular to the valve seat}	3/008	. . {Supports}
1/1455	. . . . . {the valve shutter being opened in the same direction as the liquid flow}	3/0083	. . . {for the liquid container}
1/1461	. . . . . {the valve shutter being integral with a compensator}	3/0087	. . . . {the beverage container being stored in a rack or shelf}
1/1466	. . . . . {the valve shutter being opened in a direction opposite to the liquid flow}	3/009	. . . {for the vessel to be filled}
1/1472	. . . . . {the valve shutter being integral with a compensator}	3/0093	. . {Level indicators}
1/1477	. . . . . {Devices for assisting tap handling, e.g. levers}	3/0096	. . {Aesthetics, advertising}
2001/1483	. . . . {electrically or electro-mechanically operated}	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
2001/1488	. . . . {pneumatically operated}	3/04	. Liquid-dispensing taps or cocks adapted to seal and open tapping holes of casks, e.g. for beer {( <a href="#">closures with filling and discharging devices for containers B65D 47/00</a> )}
2001/1494	. . . . {Taps with means for adjusting the position of a compensator from outside}	3/041	. . {operated by pinching action on flexible tubes}
1/16	. . Devices for collecting spilled beverages	3/042	. . {operated by deforming a membrane-like closing element}
1/165	. . . {and re-injecting them in the dispensing line}	3/043	. . {with a closing element having a linear movement, in a direction perpendicular to the seat}
<b>3/00</b>	<b>Apparatus or devices for controlling flow of liquids under gravity from storage containers for dispensing purposes</b> ( <a href="#">separating and dispensing metered quantities of liquids G01F</a> )	3/044	. . . {and venting means operated automatically with the tap}
3/0003	. {provided with automatic fluid control means}	3/045	. . {with a closing element having a linear movement, in a direction parallel to the seat}
3/0006	. . {responsive to coded information provided on the neck or spout of the storage container, e.g. bar-code, magnets or transponder}	3/046	. . . {and venting means operated automatically with the tap}
3/0009	. {provided with cooling arrangements ( <a href="#">cooling perse F25</a> )}	3/047	. . {with a closing element having a rotational movement}
3/0012	. {provided with mixing devices}	3/048	. . . {and venting means operated automatically with the tap}
3/0016	. . {Mixing valves or taps}	<b>7/00</b>	<b>Apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers, e.g. for retail sale purposes</b> ( <a href="#">general disposition of plant in stations for supplying fuel to vehicles B60S 5/02</a> ; for filling or emptying locomotive water tanks, e.g. water columns, <a href="#">B61K 11/00</a> ; for refuelling aircraft during flight <a href="#">B64D 39/00</a> ; liquid- handling ground installations specially adapted for fuelling stationary aircraft <a href="#">B64F 1/28</a> )
3/0019	. {using ingredient cartridges}	7/002	. {using articulated pipes}
3/0022	. {provided with heating arrangements}	7/005	. {Spouts}
3/0025	. {provided with dispensing valves actuated by the receptacle to be filled ( <a href="#">B67D 3/02</a> takes precedence)}	7/007	. {using siphoning arrangements}
3/0029	. {provided with holders for bottles or similar containers}	7/02	. for transferring liquids other than fuel or lubricants
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}	7/0205	. . {by manually operable pumping apparatus ( <a href="#">Hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials B05B 11/00</a> )}
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}	7/0211	. . . {with pump locking means}
3/0038	. {the liquid being stored in an intermediate container prior to dispensing}		
3/0041	. {with provisions for metering the liquid to be dispensed}		



7/0216	. . {by squeezing collapsible or flexible storage containers ( <a href="#">B67D 7/0255</a> takes precedence; for dispensing beverages on draught <a href="#">B67D 1/0001</a> )}	2007/0449	. . . . . {Viscosity}
7/0222	. . . {the dispensed quantity of liquid being replaced by air sucked through the dispensing opening}	2007/0451	. . . . . {Temperature}
7/0227	. . {by an ejection plunger ( <a href="#">B67D 7/0238</a> takes precedence)}	2007/0453	. . . . . {recognising the fuel to be dispensed}
7/0233	. . . {the plunger being gas driven}	2007/0455	. . . . . {recognising the position}
7/0238	. . {utilising compressed air or other gas acting directly or indirectly on liquids in storage containers (for dispensing beverages on draught <a href="#">B67D 1/04</a> )}	2007/0457	. . . . . {of the car}
7/0244	. . . {by using elastic expandable bags}	2007/0459	. . . . . {by interrogating a transponder}
7/025	. . . . {specially adapted for transferring liquids of high purity}	2007/0461	. . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
7/0255	. . . {squeezing collapsible or flexible storage containers (for dispensing beverages on draught <a href="#">B67D 1/0462</a> )}	2007/0463	. . . . . {optically}
7/0261	. . . . {specially adapted for transferring liquids of high purity}	2007/0465	. . . . . {by GPS}
7/0266	. . . {by gas acting directly on the liquid}	2007/0467	. . . . . {of the fuel tank flap and/or fuel tank opening}
7/0272	. . . . {specially adapted for transferring liquids of high purity}	2007/0469	. . . . . {by interrogating a transponder}
7/0277	. . {using negative pressure}	2007/0471	. . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
7/0283	. . . {specially adapted for transferring liquids of high purity}	2007/0473	. . . . . {optically}
7/0288	. . {Container connection means (for dispensing beverages on draught <a href="#">B67D 1/0829</a> )}	2007/0474	. . . . . {of the filling nozzle relative to the fuel tank opening, e.g. engagement between nozzle and tank opening}
7/0294	. . . {Combined with valves}	7/0476	. . {Vapour recovery systems}
7/04	. for transferring fuels, lubricants or mixed fuels and lubricants	7/0478	. . . {constructional features or components (vapour recovery nozzles <a href="#">B67D 7/54</a> )}
7/0401	. . {arrangements for automatically fuelling vehicles, i.e. without human intervention}	7/048	. . . . {Vapour flow control means, e.g. valves, pumps}
2007/0403	. . . {Fuelling robots}	7/0482	. . . . . {using pumps driven at different flow rates}
2007/0405	. . . . {Opening devices}	7/0484	. . . . . {Liquid jet pumps, e.g. venturis}
2007/0407	. . . . . {for fuel tank flaps}	7/0486	. . . . . {Pumps driven in response to electric signals indicative of pressure, temperature or liquid flow}
2007/0409	. . . . . {using vacuum cups}	7/0488	. . . . . {Means for preventing the formation of condensation on, or for removing condensation from, vapour recovery lines}
2007/0411	. . . . . {using grippers}	7/049	. . . . . {Vapour recovery methods, e.g. condensing the vapour}
2007/0413	. . . . . {using air blast}	7/0492	. . . . . {Vapour storing means, e.g. dedicated ullage spaces, separate tanks}
2007/0415	. . . . . {for filler caps}	2007/0494	. . . . . {Means for condensing the vapours and reintroducing them into the storage tanks}
2007/0417	. . . . . {Manipulator arms}	7/0496	. . . {Performance test devices therefor}
2007/0419	. . . . . {Fuelling nozzles}	7/0498	. . {Arrangements specially adapted for transferring biofuels, e.g. ethanol-gasoline mixture}
2007/0421	. . . . . {with locking devices}	7/06	. Details or accessories
2007/0423	. . . . . {Fuelling hoses}	7/061	. . {Means for transferring liquids from a chosen level of a storage container}
2007/0425	. . . . . {comprising a single hose for several fuels}	7/062	. . . {from the free surface level of the liquid}
2007/0426	. . . . . {comprising several hoses for several fuels}	7/064	. . {Drive-off preventing means, e.g. in case of non-payment}
2007/0428	. . . . . {having devices to avoid a mix up of different fuels}	7/065	. . . {acting on the vehicle}
2007/043	. . . . . {Moveable}	7/067	. . . {using communication means}
2007/0432	. . . . . {according to a planar coordinate system}	7/068	. . . {using imaging means, e.g. cameras}
2007/0434	. . . . . {with the ability to compensate movements of the car during filling}	7/08	. . Arrangements of devices for controlling, indicating, metering or registering quantity or price of liquid transferred (arrangement of flow- or pressure-control valves <a href="#">B67D 7/36</a> ; computing, calculating, counting <a href="#">G06</a> ; coin-free apparatus for dispensing fluids <a href="#">G07F 13/00</a> ; prepayment devices for metering liquids <a href="#">G07F 15/00</a> )
2007/0436	. . . . . {according to a spatial coordinate system}	7/085	. . . {Testing or calibrating apparatus therefore (testing or calibrating apparatus for measuring volume flow in general <a href="#">G01F 25/00</a> )}
2007/0438	. . . . . {with the ability to compensate movements of the car during filling}	7/10	. . . operated by keys, push-buttons or cash registers
2007/044	. . . {Customer interfaces}		
2007/0442	. . . . {interface for orders and payments}		
2007/0444	. . . {Sensors}		
2007/0446	. . . . {measuring physical properties of the fluid to be dispensed}		
2007/0448	. . . . . {Density}		

- 7/103 . . . . {operated by keys}
- 7/106 . . . . {operated by push-buttons}
- 7/12 . . . operated by movement of delivery hose or nozzle or by devices associated therewith
- 7/14 . . . responsive to input of recorded programmed information, e.g. on punched cards
- 7/145 . . . . {by wireless communication means, e.g. RF, transponders or the like}
- 7/16 . . . Arrangements of liquid meters
- 7/163 . . . . {of fixed measuring chamber type}
- 7/166 . . . . . {comprising at least two chambers}
- 7/18 . . . . of piston type
- 7/20 . . . . of rotary type
- 7/22 . . . Arrangements of indicators or registers  
(indicating or recording in fluid meters [G01F 15/06](#))
- 7/221 . . . . {using electrical or electro-mechanical means ([B67D 7/224](#) takes precedence)}
- 7/222 . . . . . {involving digital counting}
- 7/224 . . . . {involving price indicators}
- 7/225 . . . . . {combined with variators}
- 7/227 . . . . . {using electrical or electro-mechanical means}
- 7/228 . . . . . {using digital counting}
- 7/24 . . . . with means for producing or issuing a receipt or record of sale
- 7/243 . . . . . {using electrical or electro-mechanical means}
- 7/246 . . . . . {involving digital counting}
- 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
- 7/30 . . . with means for predetermining quantity of liquid to be transferred ([B67D 7/10](#), [B67D 7/14](#) take precedence)
- 7/301 . . . . {using mechanical means ([B67D 7/306](#) takes precedence)}
- 7/302 . . . . {using electrical or electro-mechanical means ([B67D 7/307](#) takes precedence)}
- 7/303 . . . . . {involving digital counting}
- 7/305 . . . . {in function of money to be spent therefor}
- 7/306 . . . . . {using mechanical means}
- 7/307 . . . . . {using electrical or electro-mechanical means}
- 7/308 . . . . . {involving digital counting}
- 7/32 . . . Arrangements of safety or warning devices;  
Means for preventing unauthorised delivery of liquid
- 7/3209 . . . {relating to spillage or leakage, e.g. spill containments, leak detection ([leak detectors for underground fuel dispensing systems G01M 3/2892](#))}
- 7/3218 . . . {relating to emergency shut-off means}
- 7/3227 . . . {relating to venting of a container during loading or unloading}
- 7/3236 . . . {relating to electrostatic charges}
- 7/3245 . . . {relating to the transfer method}
- 7/3254 . . . . {using a pressurised liquid acting directly or indirectly on the bulk of the liquid to be transferred}
- 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](#))}
- 7/3272 . . . . {using pumps}
- 7/3281 . . . {Details}
- 2007/329 . . . . {Function indicator devices}
- 7/34 . . . Means for preventing unauthorised delivery of liquid
- 7/342 . . . . {by discriminating the kind of liquid by analysis or by physical properties, e.g. vapour-pressure}
- 7/344 . . . . {by checking a correct coupling or coded information}
- 7/346 . . . . . {by reading a code}
- 7/348 . . . . . {by interrogating an information transmitter, e.g. a transponder ([B67D 7/145](#) takes precedence)}
- 7/36 . . . Arrangements of flow- or pressure-control valves ([associated with nozzles B67D 7/42](#))
- 7/362 . . . {combined with over-fill preventing means ([indicating or measuring liquid level G01F 23/00](#); [level control G05D 9/00](#))}
- 7/365 . . . . {using floats}
- 7/367 . . . . . {the float acting pneumatically on a shut-off valve}
- 7/38 . . . Arrangements of hoses, e.g. operative connection with pump motor ([hoses in general F16L 11/00](#))
- 7/40 . . . Suspending, reeling or storing devices ([supports for storing lengths of hoses, in general B65H 75/34](#))
- 7/403 . . . . {the hose carrier comprising a sliding unit}
- 7/406 . . . . {the hose carrier comprising a pivoting unit}
- 7/42 . . . Filling nozzles
- 7/421 . . . {comprising protective covers, e.g. anti-splash attachments}
- 7/423 . . . {specially adapted for blending several fluids ([mixing devices B67D 7/74](#))}
- 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}	2210/00	<b>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</b>
7/56	. . Arrangements of flow-indicators, e.g. transparent compartments, windows, rotary vanes (indicating or recording presence, absence or direction of movement <a href="#">G01P 13/00</a> )	2210/00002	. Purifying means
7/565	. . . {for indicating end of flow, e.g. by optical or audible signals}	2210/00005	. . Filters
7/58	. . Arrangements of pumps	2210/00007	. . . for gas
7/60	. . . manually operable	2210/0001	. . . for liquid
7/62	. . . power operated	2210/00013	. . Sterilising means
7/64	. . . . of piston type	2210/00015	. . . UV radiation
7/645	. . . . . {Barrel pumps}	2210/00018	. . . Membranes
7/66	. . . . of rotary type	2210/0002	. . . Distillators
7/68	. . . submerged in storage tank or reservoir	2210/00023	. . . Oxygenators
7/70	. . . of two or more pumps in series or parallel	2210/00026	. . . Heaters
7/72	. . Devices for applying air or other gas pressure for forcing liquid to delivery point	2210/00028	. Constructional details
7/725	. . . {using negative pressure}	2210/00031	. . Housing
7/74	. . Devices for mixing two or more different liquids to be transferred ( <a href="#">coin-freed apparatus G07F 13/06</a> )	2210/00034	. . . Modules
7/741	. . . {mechanically operated}	2210/00036	. . . . for use with or in refrigerators
7/742	. . . . {involving mechanical counters, e.g. of clock-work type}	2210/00039	. . . Panels
7/743	. . . {electrically or electro-mechanically operated}	2210/00041	. . . Doors
7/744	. . . . {involving digital counting}	2210/00044	. . . Insulation
2007/745	. . . {for obtaining fuel of a given octane level}	2210/00047	. . Piping
2007/746	. . . . {by mixing different fuel grades or fuel and oil}	2210/00049	. . . Pipes
2007/747	. . . . . {involving means responsive to the octane level, e.g. octane sensor, knock engine}	2210/00052	. . . . with flow tranquilisers
2007/748	. . . . {by mixing fuel with additives, e.g. anti-knocking agents}	2210/00055	. . . . with turbulent flow generators, e.g. vortices
2007/749	. . . . . {involving means responsive to the octane level, e.g. octane sensor, knock engine}	2210/00057	. . . . adapted for being easily cleaned
7/76	. . Arrangements of devices for purifying liquids to be transferred, e.g. of filters, of air or water separators	2210/0006	. . . Manifolds
7/763	. . . {of air separators}	2210/00062	. . . Pipe joints
7/766	. . . {of water separators}	2210/00065	. . related to the use of drinking cups or glasses
7/78	. . Arrangements of storage tanks, reservoirs or pipe-lines	2210/00068	. . . Means for filling simultaneously a plurality of cups
7/80	. . Arrangements of heating or cooling devices for liquids to be transferred	2210/0007	. . . For use with partially pre-filled cups
7/82	. . . Heating only	2210/00073	. . . Cup cleaning devices
7/84	. . Casings, cabinets or frameworks; Trolleys or like movable supports	2210/00076	. . . Cup conveyors
7/845	. . . {Trolleys or like movable supports}	2210/00078	. . . Cup dispensers
7/86	. . Illuminating arrangements	2210/00081	. . related to bartenders
9/00	<b>Apparatus or devices for transferring liquids when loading or unloading ships (<a href="#">ship-based equipment B63B 27/00</a>)</b>	2210/00083	. . . Access code recognition means
9/02	. using articulated pipes	2210/00086	. . . Selector circuits
99/00	<b>Subject matter not provided for in other groups of this subclass</b>	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
		2210/0011	. . . . . 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 in situ
- 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