

# 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 ( <a href="#">B67D 3/00</a> takes precedence; apparatus for making beverages <a href="#">A47J 31/00</a> )	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 ( <a href="#">B67D 1/0462</a> 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 ( <a href="#">B67D 1/02</a> , <a href="#">B67D 1/04</a> take precedence; drinking fountains <a href="#">E03B 9/20</a> )}	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 CO<sub>2</sub> 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 CO<sub>2</sub>}
- 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. CO<sub>2</sub>, N<sub>2</sub>}
- 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 CO<sub>2</sub> 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 CO<sub>2</sub>}
- 2001/0481 . . . {Single inert gas, e.g. N<sub>2</sub>}
- 2001/0487 . . . {Mixture of gases, e.g. N<sub>2</sub> + CO<sub>2</sub>}
- 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 <a href="#">B67D 1/16</a> )}	3/0009	. {provided with cooling arrangements ( <a href="#">cooling perse F25</a> )}
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 ( <a href="#">B67D 3/02 takes precedence</a> )}
1/127	. . . {Froth control ( <a href="#">B67D 1/1411 takes precedence</a> )}	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 ( <a href="#">construction of pumps: B67D 1/10</a> )}	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 ( <a href="#">closures with filling and discharging devices for containers B65D 47/00</a> )
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}		
<b>3/00</b>	<b>Apparatus or devices for controlling flow of liquids under gravity from storage containers for dispensing purposes (separating and dispensing metered quantities of liquids <a href="#">G01F</a>)</b>		
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}
<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> (general disposition of plant in stations for supplying fuel to vehicles <a href="#">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> )	2007/0426	. . . . . {comprising several hoses for several fuels}
7/002	. {using articulated pipes}	2007/0428	. . . . . {having devices to avoid a mix up of different fuels}
7/005	. {Spouts}	2007/043	. . . . . {Moveable}
7/007	. {using siphoning arrangements}	2007/0432	. . . . . {according to a planar coordinate system}
7/02	. for transferring liquids other than fuel or lubricants	2007/0434	. . . . . {with the ability to compensate movements of the car during filling}
7/0205	. . {by manually operable pumping apparatus (hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials <a href="#">B05B 11/00</a> )}	2007/0436	. . . . . {according to a spatial coordinate system}
7/0211	. . . {with pump locking means}	2007/0438	. . . . . {with the ability to compensate movements of the car during filling}
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> )}	2007/044	. . . . {Customer interfaces}
7/0222	. . . {the dispensed quantity of liquid being replaced by air sucked through the dispensing opening}	2007/0442	. . . . . {interface for orders and payments}
7/0227	. . {by an ejection plunger ( <a href="#">B67D 7/0238</a> takes precedence)}	2007/0444	. . . . {Sensors}
7/0233	. . . {the plunger being gas driven}	2007/0446	. . . . . {measuring physical properties of the fluid to be dispensed}
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> )}	2007/0448	. . . . . {Density}
7/0244	. . . {by using elastic expandable bags}	2007/0449	. . . . . {Viscosity}
7/025	. . . . {specially adapted for transferring liquids of high purity}	2007/0451	. . . . . {Temperature}
7/0255	. . . {squeezing collapsible or flexible storage containers (for dispensing beverages on draught <a href="#">B67D 1/0462</a> )}	2007/0453	. . . . . {recognising the fuel to be dispensed}
7/0261	. . . . {specially adapted for transferring liquids of high purity}	2007/0455	. . . . . {recognising the position}
7/0266	. . . {by gas acting directly on the liquid}	2007/0457	. . . . . {of the car}
7/0272	. . . . {specially adapted for transferring liquids of high purity}	2007/0459	. . . . . {by interrogating a transponder}
7/0277	. . {using negative pressure}	2007/0461	. . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
7/0283	. . . {specially adapted for transferring liquids of high purity}	2007/0463	. . . . . {optically}
7/0288	. . {Container connection means (for dispensing beverages on draught <a href="#">B67D 1/0829</a> )}	2007/0465	. . . . . {by GPS}
7/0294	. . . {Combined with valves}	2007/0467	. . . . . {of the fuel tank flap and/or fuel tank opening}
7/04	. for transferring fuels, lubricants or mixed fuels and lubricants	2007/0469	. . . . . {by interrogating a transponder}
7/0401	. . {arrangements for automatically fuelling vehicles, i.e. without human intervention}	2007/0471	. . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
2007/0403	. . . {Fuelling robots}	2007/0473	. . . . . {optically}
2007/0405	. . . . {Opening devices}	2007/0474	. . . . . {of the filling nozzle relative to the fuel tank opening, e.g. engagement between nozzle and tank opening}
2007/0407	. . . . . {for fuel tank flaps}	7/0476	. . . {Vapour recovery systems}
2007/0409	. . . . . {using vacuum cups}	7/0478	. . . {constructional features or components (vapour recovery nozzles <a href="#">B67D 7/54</a> )}
2007/0411	. . . . . {using grippers}	7/048	. . . . {Vapour flow control means, e.g. valves, pumps}
2007/0413	. . . . . {using air blast}	7/0482	. . . . . {using pumps driven at different flow rates}
		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 ( <a href="#">B67D 7/10</a> , <a href="#">B67D 7/14</a> take precedence)
7/0496	. . . {Performance test devices therefor}		
7/0498	. . {Arrangements specially adapted for transferring biofuels, e.g. ethanol-gasoline mixture}	7/301	. . . . {using mechanical means ( <a href="#">B67D 7/306</a> takes precedence)}
7/06	. Details or accessories	7/302	. . . . {using electrical or electro-mechanical means ( <a href="#">B67D 7/307</a> takes precedence)}
7/061	. . {Means for transferring liquids from a chosen level of a storage container}	7/303	. . . . . {involving digital counting}
7/062	. . . {from the free surface level of the liquid}	7/305	. . . . {in function of money to be spent therefor}
7/064	. . {Drive-off preventing means, e.g. in case of non-payment}	7/306	. . . . . {using mechanical means}
7/065	. . . {acting on the vehicle}	7/307	. . . . . {using electrical or electro-mechanical means}
7/067	. . . {using communication means}	7/308	. . . . . {involving digital counting}
7/068	. . . {using imaging means, e.g. cameras}	7/32	. . Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid
7/08	. . Arrangements of devices for controlling, indicating, metering or registering quantity or price of liquid transferred ( <a href="#">arrangement of flow- or pressure-control valves B67D 7/36</a> ; <a href="#">computing, calculating, counting G06</a> ; <a href="#">coin-free apparatus for dispensing fluids G07F 13/00</a> ; <a href="#">prepayment devices for metering liquids G07F 15/00</a> )	7/3209	. . . {relating to spillage or leakage, e.g. spill containments, leak detection ( <a href="#">leak detectors for underground fuel dispensing systems G01M 3/2892</a> )}
7/085	. . . {Testing or calibrating apparatus therefore (testing or calibrating apparatus for measuring volume flow in general <a href="#">G01F 25/00</a> )}	7/3218	. . . {relating to emergency shut-off means}
7/10	. . . operated by keys, push-buttons or cash registers	7/3227	. . . {relating to venting of a container during loading or unloading}
7/103	. . . . {operated by keys}	7/3236	. . . {relating to electrostatic charges}
7/106	. . . . {operated by push-buttons}	7/3245	. . . {relating to the transfer method}
7/12	. . . operated by movement of delivery hose or nozzle or by devices associated therewith	7/3254	. . . . {using a pressurised liquid acting directly or indirectly on the bulk of the liquid to be transferred}
7/14	. . . responsive to input of recorded programmed information, e.g. on punched cards	7/3263	. . . . {using a pressurised gas acting directly or indirectly on the bulk of the liquid to be transferred ( <a href="#">use of compressed air or gas for transferring liquids B67D 7/0238</a> , <a href="#">B67D 7/72</a> )}
7/145	. . . . {by wireless communication means, e.g. RF, transponders or the like}	7/3272	. . . . {using pumps}
7/16	. . . Arrangements of liquid meters	7/3281	. . . {Details}
7/163	. . . . {of fixed measuring chamber type}	2007/329	. . . . {Function indicator devices}
7/166	. . . . . {comprising at least two chambers}	7/34	. . . Means for preventing unauthorised delivery of liquid
7/18	. . . . of piston type	7/342	. . . . {by discriminating the kind of liquid by analysis or by physical properties, e.g. vapour-pressure}
7/20	. . . . of rotary type	7/344	. . . . {by checking a correct coupling or coded information}
7/22	. . . Arrangements of indicators or registers ( <a href="#">indicating or recording in fluid meters G01F 15/06</a> )	7/346	. . . . . {by reading a code}
7/221	. . . . {using electrical or electro-mechanical means ( <a href="#">B67D 7/224</a> takes precedence)}	7/348	. . . . . {by interrogating an information transmitter, e.g. a transponder ( <a href="#">B67D 7/145</a> takes precedence)}
7/222	. . . . . {involving digital counting}	7/36	. . Arrangements of flow- or pressure-control valves ( <a href="#">associated with nozzles B67D 7/42</a> )
7/224	. . . . . {involving price indicators}	7/362	. . . {combined with over-fill preventing means ( <a href="#">indicating or measuring liquid level G01F 23/00</a> ; <a href="#">level control G05D 9/00</a> )}
7/225	. . . . . {combined with variators}	7/365	. . . . . {using floats}
7/227	. . . . . {using electrical or electro-mechanical means}	7/367	. . . . . {the float acting pneumatically on a shut-off valve}
7/228	. . . . . {using digital counting}	7/38	. . Arrangements of hoses, e.g. operative connection with pump motor ( <a href="#">hoses in general F16L 11/00</a> )
7/24	. . . . with means for producing or issuing a receipt or record of sale	7/40	. . . Suspending, reeling or storing devices ( <a href="#">supports for storing lengths of hoses, in general B65H 75/34</a> )
7/243	. . . . . {using electrical or electro-mechanical means}	7/403	. . . . {the hose carrier comprising a sliding unit}
7/246	. . . . . {involving digital counting}	7/406	. . . . {the hose carrier comprising a pivoting unit}
7/26	. . . . with resetting or zeroing means	7/42	. . Filling nozzles
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}
- 7/423 . . . {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}
- 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-freed 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**
- 2210/00002 . . Purifying means
- 2210/00005 . . Filters
- 2210/00007 . . . for gas
- 2210/0001 . . . . for liquid
- 2210/00013 . . Sterilising means
- 2210/00015 . . . UV radiation
- 2210/00018 . . . Membranes
- 2210/0002 . . . Distillators
- 2210/00023 . . . Oxygenators
- 2210/00026 . . . Heaters
- 2210/00028 . . Constructional details
- 2210/00031 . . Housing
- 2210/00034 . . . Modules
- 2210/00036 . . . . for use with or in refrigerators
- 2210/00039 . . . Panels
- 2210/00041 . . . Doors
- 2210/00044 . . . Insulation
- 2210/00047 . . Piping
- 2210/00049 . . . Pipes
- 2210/00052 . . . . with flow tranquilisers
- 2210/00055 . . . . with turbulent flow generators, e.g. vortices
- 2210/00057 . . . . adapted for being easily cleaned
- 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

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- 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 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