

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](#))

1/00	Apparatus or devices for dispensing beverages on draught (B67D 3/00 takes precedence; apparatus for making beverages A47J 31/00)	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 (B67D 1/0462 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 (B67D 1/02 , B67D 1/04 take precedence; drinking fountains E03B 9/20)}	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 (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}	2001/0475	. . {Type of gas or gas mixture used, other than pure CO ₂ }
1/007	. . . . {Structure of the carbonating chamber}	2001/0481	. . . {Single inert gas, e.g. N ₂ }
1/0071	. . . . {Carbonating by injecting CO ₂ in the liquid}	2001/0487	. . . {Mixture of gases, e.g. N ₂ + CO ₂ }
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 (shop or bar counters per se A47F 9/00)
1/0074	. . . . {Automatic carbonation control}	1/07	. Cleaning beverage-dispensing apparatus (B67D 1/0834 , B67D 1/0837 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 ₂ }	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 ₂ , N ₂ }	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 (B67D 1/0418 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 ₂ 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 (apparatus for generating gases in general B01J 7/00)}	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 {(closures with filling and discharging devices for containers B65D 47/00)}
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}
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)	3/044	. . . {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 (cooling perse F25) }	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}	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)
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 (B67D 3/02 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 (Hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials B05B 11/00) }
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 (B67D 7/0255 takes precedence; for dispensing beverages on draught B67D 1/0001)}	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 (B67D 7/0238 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 B67D 1/04)}	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 B67D 1/0462)}	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 B67D 1/0829)}	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 B67D 7/54)}
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 B67D 7/36 ; computing, calculating, counting G06 ; coin-free apparatus for dispensing fluids G07F 13/00 ; prepayment devices for metering liquids G07F 15/00)
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 G01F 25/00)}
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	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
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)	2210/00002	. 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 (coin-freed apparatus G07F 13/06)	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	Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B 27/00)	2210/00083	. . . Access code recognition means
9/02	. using articulated pipes	2210/00086	. . . Selector circuits
99/00	Subject matter not provided for in other groups of this subclass	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

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- 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