

**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](#))

**B67D 1/00**

**Apparatus or devices for dispensing beverages on draught** ([B67D 3/00](#) takes precedence; apparatus for making beverages [A47J 31/00](#))

## B67D 1/0001

. {by squeezing collapsible or flexible storage containers ([B67D 1/0462](#) takes precedence)}

## B67D 1/0002

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

## B67D 1/0003

. {the beverage being a single liquid ([B67D 1/02](#), [B67D 1/04](#) take precedence; drinking fountains [E03B 9/20](#))}

## B67D 1/0004

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

## B67D 1/0005

... {the apparatus comprising means for automatically controlling the amount to be dispensed}

## B67D 1/0006

.... {based on the timed opening of a valve}

## B67D 1/0007

.... {based on volumetric dosing}

## B67D 1/0008

.... {based on weighing}

## B67D 1/0009

.. {the beverage being stored in an intermediate container connected to a supply}

## B67D 1/001

... {the apparatus comprising means for automatically controlling the amount to be dispensed}

## B67D 1/0011

.... {based on the timed opening of a valve}

## B67D 1/0012

.... {based on volumetric dosing}

## B67D 1/0013

.... {based on weighing}

## B67D 1/0014

.. {the beverage being supplied from water mains}

## B67D 1/0015

. {the beverage being prepared by mixing at least two liquid components}

## B67D 1/0016

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

## B67D 1/0017

... {the apparatus comprising means for automatically controlling the amount to be dispensed}

## B67D 1/0018

.... {based on the timed opening of a valve}

## B67D 1/0019

.... {based on volumetric dosing}

## B67D 1/002

.... {based on weighing}

## B67D 1/0021

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

## B67D 1/0022

... {the apparatus comprising means for automatically controlling the amount to be dispensed}

## B67D 1/0023

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

## B67D 1/0024

..... {based on the timed opening of a valve}

B67D 1/0025	.....	{based on volumetric dosing}
B67D 1/0026	.....	{based on weighing}
B67D 1/0027	....	{control of the amount of one component, the amount of the other components(s) being dependent on that control}
B67D 1/0028	.....	{based on the timed opening of a valve}
B67D 1/0029	.....	{based on volumetric dosing}
B67D 1/003	.....	{by means of a dosing chamber}
B67D 1/0031	.....	{in the form of a metering pump}
B67D 1/0032	.....	{using flow-rate sensors}
B67D 1/0033	.....	{based on weighing}
B67D 1/0034	....	{for controlling the amount of each component}
B67D 1/0035	.....	{the controls being based on the same metering technics}
B67D 1/0036	.....	{based on the timed opening of valves}
B67D 1/0037	.....	{based on volumetric dosing}
B67D 1/0038	.....	{based on weighing}
B67D 1/0039	.....	{the controls involving at least two different metering technics}
B67D 1/004	..	{the diluent being supplied from water mains}
B67D 1/0041	.	{Fully automated cocktail bars, i.e. apparatuses combining the use of packaged beverages, pre-mix and post-mix dispensers}
B67D 1/0042	.	{Details of specific parts of the dispensers}
B67D 1/0043	..	{Mixing devices for liquids}
B67D 1/0044	...	{for mixing inside the dispensing nozzle}
B67D 1/0045	....	{Venturi arrangements; Aspirators; Eductors}
B67D 1/0046	....	{Mixing chambers}
B67D 1/0047	.....	{with movable parts, e.g. for stirring}
B67D 1/0048	.....	{with baffles}
B67D 1/0049	.....	{with means for diverging streams}
B67D 1/005	.....	{with means for converging streams}
B67D 1/0051	...	{for mixing outside the nozzle}
B67D 1/0052	....	{by means for directing respective streams together}
B67D 1/0053	....	{by stirring in the cup}
B67D 1/0054	...	{Recirculation means}
B67D 1/0055	....	{with fountain effect}
B67D 1/0056	.....	{with illumination}
B67D 1/0057	..	{Carbonators}
B67D 1/0058	...	{In-line carbonators}
B67D 1/0059	....	{in combination with a mixer tap ( <a href="#">constructional features of the tap E03C 1/04</a> )}
B67D 1/006	...	{Conventional carbonators}
B67D 1/0061	...	{with cooling means}
B67D 1/0062	....	{inside the carbonator}

B67D 1/0063	.....	{Cooling coil}
B67D 1/0064	.....	{Cold plate}
B67D 1/0065	.....	{Ice bank}
B67D 1/0066	....	{outside the carbonator}
B67D 1/0067	.....	{Cooling coil}
B67D 1/0068	.....	{Cooling bath}
B67D 1/0069	...	{Details}
B67D 1/007	....	{Structure of the carbonating chamber}
B67D 1/0071	....	{Carbonating by injecting CO <sub>2</sub> in the liquid}
B67D 1/0072	.....	{through a diffuser, a bubbler}
B67D 1/0073	....	{Carbonating by spraying the liquid}
B67D 1/0074	....	{Automatic carbonation control}
B67D 1/0075	.....	{by sensing gas pressure}
B67D 1/0076	.....	{by sensing temperature}
B67D 1/0077	....	{Carbonator being specially adapted for adding a second gas to the CO <sub>2</sub> }
B67D 1/0078	..	{Ingredient cartridges}
B67D 1/0079	...	{having their own dispensing means}
B67D 1/008	...	{Gas cartridges or bottles}
B67D 1/0081	..	{Dispensing valves}
B67D 1/0082	...	{entirely mechanical}
B67D 1/0083	....	{with means for separately dispensing a single or a mixture of drinks}
B67D 1/0084	.....	{Hand-held gun type valves}
B67D 1/0085	...	{electro-mechanical}
B67D 1/0086	....	{Hand-held gun type valves}
B67D 2001/0087	...	{being mounted on the dispenser housing}
B67D 2001/0088	....	{operated by push buttons}
B67D 2001/0089	....	{operated by lever means}
B67D 2001/009	....	{operated by cup detection}
B67D 2001/0091	.	{Component storage means }
B67D 2001/0092	..	{Containers for gas, for e.g. CO <sub>2</sub> , N <sub>2</sub> }
B67D 2001/0093	.	{Valves }
B67D 2001/0094	..	{Valve mountings in dispensers }
B67D 2001/0095	.	{Constructional details }
B67D 2001/0096	..	{Means for pressurizing liquid }
B67D 2001/0097	...	{using a pump }
B67D 2001/0098	...	{using a gas }
B67D 1/02	.	Beer engines or like manually-operable pumping apparatus
B67D 1/025	..	{with means for carbonating the beverage, or for maintaining its carbonation}
B67D 1/04	.	Apparatus utilising compressed air or other gas acting directly or indirectly on beverages in storage containers

- B67D 1/0406 .. {with means for carbonating the beverage, or for maintaining its carbonation ([B67D 1/0418](#) takes precedence)}
- B67D 1/0412 .. {the whole dispensing unit being fixed to the container}
- B67D 1/0418 ... {comprising a CO<sub>2</sub> cartridge for dispensing and carbonating the beverage}
- B67D 1/0425 ... {comprising an air pump system}
- B67D 1/0431 .... {power-operated}
- B67D 1/0437 ... {comprising a gas pressure space within the container for the liquid}
- B67D 1/0443 ... {comprising a gas generator ([apparatus for generating gases in general B01J 7/00](#))}
- B67D 1/045 .. {using elastic bags and pistons actuated by air or other gas}
- B67D 1/0456 .. {Siphons, i.e. beverage containers under gas pressure without supply of further pressurised gas during dispensing}
- B67D 1/0462 .. {Squeezing collapsible or flexible beverage containers, e.g. bag-in-box containers}
- B67D 1/0468 .. {comprising means for the recovery of the gas acting on beverages}
- B67D 2001/0475 .. {Type of gas or gas mixture used, other than pure CO<sub>2</sub>}
- B67D 2001/0481 ... {Single inert gas, e.g. N<sub>2</sub>}
- B67D 2001/0487 ... {Mixture of gases, e.g. N<sub>2</sub> + CO<sub>2</sub>}
- B67D 2001/0493 .... {Air }
- B67D 1/06 . Mountings or arrangements of dispensing apparatus in or on shop or bar counters ([shop or bar counters per se A47F 9/00](#))
- B67D 1/07 . Cleaning beverage-dispensing apparatus {([B67D 1/0834](#), [B67D 1/0837](#) take precedence)}
- B67D 2001/075 .. {Sanitising or sterilising the apparatus}
- B67D 1/08 . Details
- B67D 1/0801 .. {of beverage containers, e.g. casks, kegs}
- B67D 1/0802 ... {Dip tubes }
- B67D 1/0804 ... {Shape or materials}
- B67D 1/0805 ... {Openings for filling}
- B67D 1/0807 ... {Openings for emptying, e.g. taped openings}
- B67D 1/0808 ... {Closing means, e.g. bungholes, barrel bungs}
- B67D 1/0809 ... {Opening means, e.g. means for assisting the opening}
- B67D 2001/0811 ... {provided with coded information}
- B67D 2001/0812 ... {Bottles, cartridges or similar containers}
- B67D 2001/0814 .... {for upside down use }
- B67D 2001/0815 ..... {with integral venting tube }
- B67D 2001/0817 ..... {with a venting orifice }
- B67D 2001/0818 .... {arranged in series }
- B67D 2001/082 .... {arranged in parallel }
- B67D 2001/0821 .... {having different compartments for different components }
- B67D 2001/0822 ... {Pressurised rigid containers, e.g. kegs, figals }
- B67D 2001/0824 .... {with dip tubes }

B67D 2001/0825	....	{details of dip tube }
B67D 2001/0827	...	{Bags in box }
B67D 2001/0828	....	{in pressurised housing }
B67D 1/0829	..	{Keg connection means}
B67D 1/0831	...	{combined with valves}
B67D 1/0832	....	{with two valves disposed concentrically}
B67D 1/0834	.....	{and having means for admitting a cleaning fluid}
B67D 1/0835	....	{with one valve}
B67D 1/0837	.....	{and having means for admitting a cleaning fluid}
B67D 1/0838	....	{comprising means for preventing blow-out on disassembly of the spear valve}
B67D 1/0839	...	{Automatically operating handles for locking or unlocking a connector to or from a keg}
B67D 1/0841	...	{Details}
B67D 1/0842	....	{Multiple connectors, e.g. for simultaneously connecting several containers}
B67D 1/0844	....	{for containers in crates}
B67D 1/0845	....	{Security means}
B67D 1/0847	....	{Tamper-evident devices}
B67D 1/0848	....	{Locking means}
B67D 1/0849	....	{provided with means to open the keg valve when gas pressure is applied to it}
B67D 1/0851	....	{composed of a piston and ram assembly, e.g. tappet}
B67D 1/0852	....	{composed of a membrane and ram assembly}
B67D 1/0854	....	{provided with means to open the keg valve when water pressure is applied to it}
B67D 1/0855	..	{concerning the used flowmeter ( <a href="#">flowmeter per se G01F 1/00</a> , <a href="#">G01F 3/00</a> )}
B67D 1/0857	..	{Cooling arrangements ( <a href="#">cooling systems per se F25B</a> )}
B67D 1/0858	...	{using compression systems}
B67D 1/0859	....	{the evaporator being in direct heat contact with the beverage, e.g. placed inside a beverage container}
B67D 1/0861	....	{the evaporator acting through an intermediate heat transfer means}
B67D 1/0862	.....	{in the form of a cold plate or a cooling block}
B67D 1/0864	.....	{in the form of a cooling bath}
B67D 1/0865	.....	{by circulating a cooling fluid along beverage supply lines, e.g. pythons}
B67D 1/0867	.....	{the cooling fluid being a liquid}
B67D 1/0868	.....	{the cooling fluid being a gas}
B67D 1/0869	...	{using solid state elements, e.g. Peltier cells}
B67D 1/0871	..	{Level gauges for beverage storage containers ( <a href="#">level indicators in general G01F</a> )}
B67D 1/0872	..	{Aesthetics, advertising}
B67D 1/0874	...	{Means for illuminating the handle of taps or faucets}
B67D 1/0875	...	{Means for illuminating the beverage to be dispensed}

B67D 1/0877	...	{Advertising means ( <a href="#">advertising in general G09F</a> )}
B67D 1/0878	..	{Safety, warning or controlling devices ( <a href="#">B67D 1/12</a> takes precedence)}
B67D 1/0879	...	{Doors for protecting the vessel to be filled}
B67D 1/0881	...	{Means for counting the doses of dispensed liquid}
B67D 1/0882	...	{Devices for controlling the dispensing conditions}
B67D 1/0884	....	{Means for controlling the parameters of the state of the liquid to be dispensed, e.g. temperature, pressure }
B67D 1/0885	....	{Means for dispensing under specific atmospheric conditions, e.g. under inert gas}
B67D 1/0887	...	{Sanitary protection means for dispensing nozzles or taps, e.g. outlet closures}
B67D 1/0888	..	{Means comprising electronic circuitry (e.g. control panels, switching or controlling means)}
B67D 1/0889	..	{Supports}
B67D 1/0891	...	{for the beverage container}
B67D 1/0892	....	{the beverage container being stored in a rack or shelf}
B67D 1/0894	...	{for the vessel to be filled}
B67D 1/0895	..	{Heating arrangements}
B67D 1/0897	...	{located in nozzles}
B67D 1/0898	...	{Beer warmers ( <a href="#">B67D 1/0897</a> takes precedence)}
B67D 1/10	..	Pump mechanism ( <a href="#">in general F04</a> )
B67D 1/101	...	{of the piston-cylinder type}
B67D 1/102	....	{for one liquid component only}
B67D 1/103	.....	{the piston being driven by a liquid or a gas}
B67D 1/104	.....	{by the liquid to be dispensed}
B67D 1/105	....	{for two or more components}
B67D 1/106	.....	{the piston being driven by a liquid or a gas}
B67D 1/107	.....	{by one of the components to be dispensed}
B67D 1/108	...	{of the peristaltic type}
B67D 1/12	..	Flow or pressure control devices or systems {e.g. valves, gas pressure control, level control in storage containers}
B67D 1/1202	...	{Flow control, e.g. for controlling total amount or mixture ratio of liquids to be dispensed}
B67D 1/1204	....	{for ratio control purposes}
B67D 1/1206	.....	{Flow detectors}
B67D 1/1209	.....	{combined with a timer}
B67D 1/1211	.....	{Flow rate sensor}
B67D 1/1213	.....	{combined with a timer}
B67D 1/1215	.....	{combined with a counter}
B67D 1/1218	.....	{modulating the opening of a valve}
B67D 1/122	.....	{modulating a pumping rate}
B67D 1/1222	.....	{Pressure gauges}

B67D 1/1225	.....	{Weighing}
B67D 1/1227	.....	{the cup to be filled}
B67D 1/1229	.....	{the storage container}
B67D 1/1231	.....	{Metering pumps}
B67D 1/1234	....	{to determine the total amount}
B67D 1/1236	.....	{comprising means for detecting the size of vessels to be filled}
B67D 1/1238	.....	{comprising means for detecting the liquid level in vessels to be filled e.g. using ultrasonic waves, optical reflexion, probes}
B67D 1/124	.....	{the flow being started or stopped by means actuated by the vessel to be filled, e.g. by switches, weighing}
B67D 1/1243	.....	{comprising flow or pressure sensors, e.g. for controlling pumps}
B67D 1/1245	...	{Change-over devices, i.e. connecting a flow line from an empty container to a full one}
B67D 1/1247	...	{Means for detecting the presence or absence of liquid}
B67D 1/125	...	{Safety means, e.g. over-pressure valves}
B67D 1/1252	...	{Gas pressure control means, e.g. for maintaining proper carbonation (for beer engines <a href="#">B67D 1/025</a> )}
B67D 2001/1254	....	{comprising means for making a mixture of gases }
B67D 1/1256	...	{Anti-dripping devices ( <a href="#">Drip trays B67D 1/16</a> )}
B67D 2001/1259	...	{Fluid level control devices }
B67D 2001/1261	....	{the level being detected mechanically }
B67D 2001/1263	....	{the level being detected electrically }
B67D 2001/1265	.....	{Pressure switches }
B67D 2001/1268	.....	{Capacitors }
B67D 1/127	...	{Froth control ( <a href="#">B67D 1/1411</a> takes precedence)}
B67D 1/1272	....	{preventing froth}
B67D 1/1275	....	{promoting froth}
B67D 1/1277	...	{Flow control valves}
B67D 1/1279	....	{regulating the flow}
B67D 1/1281	.....	{responsive to pressure}
B67D 1/1284	...	{Ratio control}
B67D 1/1286	....	{by mechanical construction}
B67D 1/1288	.....	{Multi-chamber piston pumps (construction of pumps: <a href="#">B67D 1/10</a> )}
B67D 1/129	.....	{Means for changing the ratio by acting on structural parts}
B67D 1/1293	.....	{Means for changing the ratio by acting on commands}
B67D 1/1295	....	{Ratio defined by setting flow controllers}
B67D 1/1297	....	{Ratio defined by setting of timers}
B67D 1/14	...	Reducing valves or control taps
B67D 1/1405	....	{Control taps}
B67D 1/1411	.....	{Means for controlling the build-up of foam in the container to be filled}
B67D 1/1416	.....	{comprising foam inducing means}



B67D 1/1422	.....	{comprising foam avoiding means}
B67D 1/1427	.....	{by rotating the container to be filled}
B67D 1/1433	.....	{by delivering the beverage using a helical movement}
B67D 1/1438	.....	{comprising a valve shutter movable in a direction parallel to the valve seat, e.g. sliding or rotating}
B67D 1/1444	.....	{the valve shutter being rotated}
B67D 1/145	.....	{comprising a valve shutter movable in a direction perpendicular to the valve seat}
B67D 1/1455	.....	{the valve shutter being opened in the same direction as the liquid flow}
B67D 1/1461	.....	{the valve shutter being integral with a compensator}
B67D 1/1466	.....	{the valve shutter being opened in a direction opposite to the liquid flow}
B67D 1/1472	.....	{the valve shutter being integral with a compensator}
B67D 1/1477	.....	{Devices for assisting tap handling, e.g. levers}
B67D 2001/1483	....	{electrically or electro-mechanically operated }
B67D 2001/1488	....	{pneumatically operated }
B67D 2001/1494	....	{Taps with means for adjusting the position of a compensator from outside }
B67D 1/16	..	Devices for collecting spilled beverages
B67D 1/165	...	{and re-injecting them in the dispensing line}

**B67D 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](#))

B67D 3/0003	.	{provided with automatic fluid control means}
B67D 3/0006	..	{responsive to coded information provided on the neck or spout of the storage container, e.g. bar-code, magnets or transponder}
B67D 3/0009	.	{provided with cooling arrangements ( <a href="#">cooling perse F25</a> )}
B67D 3/0012	.	{provided with mixing devices}
B67D 3/0016	..	{Mixing valves or taps}
B67D 3/0019	.	{using ingredient cartridges}
B67D 3/0022	.	{provided with heating arrangements}
B67D 3/0025	.	{provided with dispensing valves actuated by the receptacle to be filled ( <a href="#">B67D 3/02 takes precedence</a> )}
B67D 3/0029	.	{provided with holders for bottles or similar containers}
B67D 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}
B67D 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}
B67D 3/0038	.	{the liquid being stored in an intermediate container prior to dispensing}
B67D 3/0041	.	{with provisions for metering the liquid to be dispensed}
B67D 3/0045	..	{by filling a predetermined volume before dispensing}
B67D 3/0048	.	{using siphoning arrangements}



- B67D 3/0051 . {dispensing by tilting}
- B67D 3/0054 . {Mounting or arrangements of dispensing apparatus in shops or bar counters}
- B67D 3/0058 . {Details}
- B67D 3/0061 .. {of liquid containers, e.g. filling, emptying, closing or opening means}
- B67D 3/0064 ... {Dip tubes}
- B67D 3/0067 ... {relating to shape or materials, e.g. bag-in-box packages (BIB), pouches}
- B67D 3/007 ... {containers with adjustable volume}
- B67D 3/0074 .. {Safety or warning devices}
- B67D 3/0077 .. {Electronic circuitry}
- B67D 3/008 .. {Supports}
- B67D 3/0083 ... {for the liquid container}
- B67D 3/0087 .... {the beverage container being stored in a rack or shelf}
- B67D 3/009 ... {for the vessel to be filled}
- B67D 3/0093 .. {Level indicators}
- B67D 3/0096 .. {Aesthetics, advertising}
- B67D 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
- B67D 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](#))}
- B67D 3/041 .. {operated by pinching action on flexible tubes}
- B67D 3/042 .. {operated by deforming a membrane-like closing element}
- B67D 3/043 .. {with a closing element having a linear movement, in a direction perpendicular to the seat}
- B67D 3/044 ... {and venting means operated automatically with the tap}
- B67D 3/045 .. {with a closing element having a linear movement, in a direction parallel to the seat}
- B67D 3/046 ... {and venting means operated automatically with the tap}
- B67D 3/047 .. {with a closing element having a rotational movement}
- B67D 3/048 ... {and venting means operated automatically with the tap}
- B67D 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](#))
- B67D 7/002 . {using articulated pipes}
- B67D 7/005 . {Spouts}
- B67D 7/007 . {using siphoning arrangements}
- B67D 7/02 . for transferring liquids other than fuel or lubricants
- B67D 7/0205 .. {by manually operable pumping apparatus (Hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials [B05B 11/00](#))}
- B67D 7/0211 ... {with pump locking means}

B67D 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> )}
B67D 7/0222	...	{the dispensed quantity of liquid being replaced by air sucked through the dispensing opening}
B67D 7/0227	..	{by an ejection plunger ( <a href="#">B67D 7/0238</a> takes precedence)}
B67D 7/0233	...	{the plunger being gas driven}
B67D 7/0238	..	{utilising compressed air or other gas acting directly or indirectly on liquids in storage containers ( <a href="#">for dispensing beverages on draught B67D 1/04</a> )}
B67D 7/0244	...	{by using elastic expandable bags}
B67D 7/025	....	{specially adapted for transferring liquids of high purity}
B67D 7/0255	...	{squeezing collapsible or flexible storage containers ( <a href="#">for dispensing beverages on draught B67D 1/0462</a> )}
B67D 7/0261	....	{specially adapted for transferring liquids of high purity}
B67D 7/0266	...	{by gas acting directly on the liquid}
B67D 7/0272	....	{specially adapted for transferring liquids of high purity}
B67D 7/0277	..	{using negative pressure}
B67D 7/0283	...	{specially adapted for transferring liquids of high purity}
B67D 7/0288	..	{Container connection means ( <a href="#">for dispensing beverages on draught B67D 1/0829</a> )}
B67D 7/0294	...	{Combined with valves}
B67D 7/04	.	for transferring fuels, lubricants or mixed fuels and lubricants
B67D 7/0401	..	{arrangements for automatically fuelling vehicles, i.e. without human intervention}
B67D 2007/0403	...	{Fuelling robots }
B67D 2007/0405	....	{Opening devices }
B67D 2007/0407	.....	{for fuel tank flaps }
B67D 2007/0409	.....	{using vacuum cups }
B67D 2007/0411	.....	{using grippers }
B67D 2007/0413	.....	{using air blast }
B67D 2007/0415	.....	{for filler caps }
B67D 2007/0417	....	{Manipulator arms }
B67D 2007/0419	....	{Fuelling nozzles }
B67D 2007/0421	.....	{with locking devices }
B67D 2007/0423	....	{Fuelling hoses }
B67D 2007/0425	.....	{comprising a single hose for several fuels }
B67D 2007/0426	.....	{comprising several hoses for several fuels }
B67D 2007/0428	.....	{having devices to avoid a mix up of different fuels }
B67D 2007/043	....	{Moveable }
B67D 2007/0432	.....	{according to a planar coordinate system }
B67D 2007/0434	.....	{with the ability to compensate movements of the car during filling }
B67D 2007/0436	.....	{according to a spatial coordinate system }
B67D 2007/0438	.....	{with the ability to compensate movements of the car during filling }
B67D 2007/044	...	{Customer interfaces }

B67D 2007/0442	....	{interface for orders and payments }
B67D 2007/0444	...	{Sensors }
B67D 2007/0446	....	{measuring physical properties of the fluid to be dispensed }
B67D 2007/0448	.....	{Density }
B67D 2007/0449	.....	{Viscosity }
B67D 2007/0451	.....	{Temperature }
B67D 2007/0453	....	{recognising the fuel to be dispensed }
B67D 2007/0455	....	{recognising the position }
B67D 2007/0457	.....	{of the car }
B67D 2007/0459	.....	{by interrogating a transponder }
B67D 2007/0461	.....	{by calculating from a reference position, e.g the car`s silhouette, reference marks }
B67D 2007/0463	.....	{optically }
B67D 2007/0465	.....	{by GPS }
B67D 2007/0467	....	{of the fuel tank flap and/or fuel tank opening }
B67D 2007/0469	.....	{by interrogating a transponder }
B67D 2007/0471	.....	{by calculating from a reference position, e.g the car`s silhouette, reference marks }
B67D 2007/0473	.....	{optically }
B67D 2007/0474	....	{of the filling nozzle relative to the fuel tank opening, e.g. engagement between nozzle and tank opening }
B67D 7/0476	..	{Vapour recovery systems}
B67D 7/0478	...	{constructional features or components (vapour recovery nozzles <a href="#">B67D 7/54</a> )}
B67D 7/048	....	{Vapour flow control means, e.g. valves, pumps}
B67D 7/0482	.....	{using pumps driven at different flow rates}
B67D 7/0484	.....	{Liquid jet pumps, e.g. venturis}
B67D 7/0486	.....	{Pumps driven in response to electric signals indicative of pressure, temperature or liquid flow}
B67D 7/0488	....	{Means for preventing the formation of condensation on, or for removing condensation from, vapour recovery lines}
B67D 7/049	....	{Vapour recovery methods, e.g. condensing the vapour}
B67D 7/0492	....	{Vapour storing means, e.g. dedicated ullage spaces, separate tanks}
B67D 2007/0494	....	{Means for condensing the vapours and reintroducing them into the storage tanks}
B67D 7/0496	...	{Performance test devices therefor}
B67D 7/0498	..	{Arrangements specially adapted for transferring biofuels, e.g. ethanol-gasoline mixture}
B67D 7/06	.	Details or accessories
B67D 7/061	..	{Means for transferring liquids from a chosen level of a storage container}
B67D 7/062	...	{from the free surface level of the liquid}
B67D 7/064	..	{Drive-off preventing means, e.g. in case of non-payment}
B67D 7/065	...	{acting on the vehicle}

B67D 7/067	...	{using communication means}
B67D 7/068	...	{using imaging means, e.g. cameras}
B67D 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-freed apparatus for dispensing fluids G07F 13/00</a> ; <a href="#">prepayment devices for metering liquids G07F 15/00</a> )
B67D 7/085	...	{ <a href="#">Testing or calibrating apparatus therefore (testing or calibrating apparatus for measuring volume flow in general G01F 25/00)</a> }
B67D 7/10	...	operated by keys, push-buttons or cash registers
B67D 7/103	....	{operated by keys}
B67D 7/106	....	{operated by push-buttons}
B67D 7/12	...	operated by movement of delivery hose or nozzle or by devices associated therewith
B67D 7/14	...	responsive to input of recorded programmed information, e.g. on punched cards
B67D 7/145	....	{ <a href="#">by wireless communication means, e.g. RF, transponders or the like</a> }
B67D 7/16	...	Arrangements of liquid meters
B67D 7/163	....	{ <a href="#">of fixed measuring chamber type</a> }
B67D 7/166	.....	{ <a href="#">comprising at least two chambers</a> }
B67D 7/18	....	of piston type
B67D 7/20	....	of rotary type
B67D 7/22	...	Arrangements of indicators or registers ( <a href="#">indicating or recording in fluid meters G01F 15/06</a> )
B67D 7/221	....	{ <a href="#">using electrical or electro-mechanical means (B67D 7/224 takes precedence)</a> }
B67D 7/222	.....	{ <a href="#">involving digital counting</a> }
B67D 7/224	....	{ <a href="#">involving price indicators</a> }
B67D 7/225	.....	{ <a href="#">combined with variators</a> }
B67D 7/227	.....	{ <a href="#">using electrical or electro-mechanical means</a> }
B67D 7/228	.....	{ <a href="#">using digital counting</a> }
B67D 7/24	...	with means for producing or issuing a receipt or record of sale
B67D 7/243	.....	{ <a href="#">using electrical or electro-mechanical means</a> }
B67D 7/246	.....	{ <a href="#">involving digital counting</a> }
B67D 7/26	...	with resetting or zeroing means
B67D 7/263	.....	{ <a href="#">using electrical or electro-mechanical means</a> }
B67D 7/266	.....	{ <a href="#">involving digital counting</a> }
B67D 7/28	...	with automatic means for reducing or intermittently interrupting flow before completion of delivery, e.g. to produce dribble feed
B67D 7/30	...	with means for predetermining quantity of liquid to be transferred ( <a href="#">B67D 7/10</a> , <a href="#">B67D 7/14 take precedence</a> )
B67D 7/301	....	{ <a href="#">using mechanical means (B67D 7/306 takes precedence)</a> }
B67D 7/302	....	{ <a href="#">using electrical or electro-mechanical means (B67D 7/307 takes precedence)</a> }

B67D 7/303	.....	{involving digital counting}
B67D 7/305	....	{in function of money to be spent therefor}
B67D 7/306	.....	{using mechanical means}
B67D 7/307	.....	{using electrical or electro-mechanical means}
B67D 7/308	.....	{involving digital counting}
B67D 7/32	..	Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid
B67D 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> )}
B67D 7/3218	...	{relating to emergency shut-off means}
B67D 7/3227	...	{relating to venting of a container during loading or unloading}
B67D 7/3236	...	{relating to electrostatic charges}
B67D 7/3245	...	{relating to the transfer method}
B67D 7/3254	....	{using a pressurised liquid acting directly or indirectly on the bulk of the liquid to be transferred}
B67D 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, B67D 7/72</a> )}
B67D 7/3272	....	{using pumps}
B67D 7/3281	...	{Details}
B67D 2007/329	....	{Function indicator devices}
B67D 7/34	...	Means for preventing unauthorised delivery of liquid
B67D 7/342	....	{by discriminating the kind of liquid by analysis or by physical properties, e.g. vapour-pressure}
B67D 7/344	....	{by checking a correct coupling or coded information}
B67D 7/346	.....	{by reading a code}
B67D 7/348	.....	{by interrogating an information transmitter, e.g. a transponder ( <a href="#">B67D 7/145 takes precedence</a> )}
B67D 7/36	..	Arrangements of flow- or pressure-control valves ( <a href="#">associated with nozzles B67D 7/42</a> )
B67D 7/362	...	{combined with over-fill preventing means ( <a href="#">indicating or measuring liquid level G01F 23/00; level control G05D 9/00</a> )}
B67D 7/365	....	{using floats}
B67D 7/367	.....	{the float acting pneumatically on a shut-off valve}
B67D 7/38	..	Arrangements of hoses, e.g. operative connection with pump motor ( <a href="#">hoses in general F16L 11/00</a> )
B67D 7/40	...	Suspending, reeling or storing devices ( <a href="#">supports for storing lengths of hoses, in general B65H 75/34</a> )
B67D 7/403	....	{the hose carrier comprising a sliding unit}
B67D 7/406	....	{the hose carrier comprising a pivoting unit}
B67D 7/42	..	Filling nozzles
B67D 7/421	...	{comprising protective covers, e.g. anti-splash attachments}
B67D 7/423	...	{specially adapted for blending several fluids ( <a href="#">mixing devices B67D 7/74</a> )}

B67D 7/425	...	{including components powered by electricity or light}
B67D 7/426	...	{including means for displaying information, e.g. for advertising ( <a href="#">B67D 7/425 takes precedence</a> )}
B67D 7/428	...	{for delivering at least two different liquids into separate containers}
B67D 7/44	...	automatically closing
B67D 7/445	....	{after a predetermined time}
B67D 7/46	....	when liquid in container to be filled reaches a predetermined level
B67D 7/465	.....	{Electrical probes sensing the level of the liquid}
B67D 7/48	.....	by making use of air suction through an opening closed by the rising liquid
B67D 7/50	....	and provided with an additional hand lever
B67D 7/52	....	and provided with additional flow-controlling valve means
B67D 7/54	...	with means for preventing escape of liquid or vapour or for recovering escaped liquid or vapour ( <a href="#">B67D 7/44 takes precedence</a> )
B67D 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 }
B67D 7/56	..	Arrangements of flow-indicators, e.g. transparent compartments, windows, rotary vanes ( <a href="#">indicating or recording presence, absence or direction of movement G01P 13/00</a> )
B67D 7/565	...	{for indicating end of flow, e.g. by optical or audible signals}
B67D 7/58	..	Arrangements of pumps
B67D 7/60	...	manually operable
B67D 7/62	...	power operated
B67D 7/64	....	of piston type
B67D 7/645	.....	{Barrel pumps}
B67D 7/66	....	of rotary type
B67D 7/68	...	submerged in storage tank or reservoir
B67D 7/70	...	of two or more pumps in series or parallel
B67D 7/72	..	Devices for applying air or other gas pressure for forcing liquid to delivery point
B67D 7/725	...	{using negative pressure}
B67D 7/74	..	Devices for mixing two or more different liquids to be transferred ( <a href="#">coin-free apparatus G07F 13/06</a> )
B67D 7/741	...	{mechanically operated}
B67D 7/742	....	{involving mechanical counters, e.g. of clock-work type}
B67D 7/743	...	{electrically or electro-mechanically operated}
B67D 7/744	....	{involving digital counting}
B67D 2007/745	...	{for obtaining fuel of a given octane level }
B67D 2007/746	....	{by mixing different fuel grades or fuel and oil }
B67D 2007/747	.....	{involving means responsive to the octane level, e.g. octane sensor, knock engine }
B67D 2007/748	....	{by mixing fuel with additives, e.g. anti-knocking agents }

B67D 2007/749	.....	{involving means responsive to the octane level, e.g. octane sensor, knock engine }
B67D 7/76	..	Arrangements of devices for purifying liquids to be transferred, e.g. of filters, of air or water separators
B67D 7/763	...	{of air separators}
B67D 7/766	...	{of water separators}
B67D 7/78	..	Arrangements of storage tanks, reservoirs or pipe-lines
B67D 7/80	..	Arrangements of heating or cooling devices for liquids to be transferred
B67D 7/82	...	Heating only
B67D 7/84	..	Casings, cabinets or frameworks; Trolleys or like movable supports
B67D 7/845	...	{Trolleys or like movable supports}
B67D 7/86	..	Illuminating arrangements
<b>B67D 9/00</b>		<b>Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment <a href="#">B63B 27/00</a>)</b>
B67D 9/02	.	using articulated pipes
<b>B67D 99/00</b>		<b>Subject matter not provided for in other groups of this subclass</b>
<b>B67D 2210/00</b>		<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>
B67D 2210/00002	.	Purifying means
B67D 2210/00005	..	Filters
B67D 2210/00007	...	for gas
B67D 2210/0001	...	for liquid
B67D 2210/00013	..	Sterilising means
B67D 2210/00015	...	UV radiation
B67D 2210/00018	...	Membranes
B67D 2210/0002	...	Distillators
B67D 2210/00023	...	Oxygenators
B67D 2210/00026	...	Heaters
B67D 2210/00028	.	Constructional details
B67D 2210/00031	..	Housing
B67D 2210/00034	...	Modules
B67D 2210/00036	....	for use with or in refrigerators
B67D 2210/00039	...	Panels
B67D 2210/00041	...	Doors
B67D 2210/00044	...	Insulation
B67D 2210/00047	..	Piping
B67D 2210/00049	...	Pipes
B67D 2210/00052	....	with flow tranquilisers
B67D 2210/00055	....	with turbulent flow generators, e.g. vortices



B67D 2210/00057	....	adapted for being easily cleaned
B67D 2210/0006	...	Manifolds
B67D 2210/00062	...	Pipe joints
B67D 2210/00065	..	related to the use of drinking cups or glasses
B67D 2210/00068	...	Means for filling simultaneously a plurality of cups
B67D 2210/0007	...	For use with partially pre-filled cups
B67D 2210/00073	...	Cup cleaning devices
B67D 2210/00076	...	Cup conveyors
B67D 2210/00078	...	Cup dispensers
B67D 2210/00081	..	related to bartenders
B67D 2210/00083	...	Access code recognition means
B67D 2210/00086	...	Selector circuits
B67D 2210/00089	...	Remote control means, e.g. by electromagnetic signals
B67D 2210/00091	...	Bar management means
B67D 2210/00094	..	Ergonomics
B67D 2210/00097	...	Handling of storage containers
B67D 2210/00099	..	Temperature control
B67D 2210/00102	...	Heating only
B67D 2210/00104	...	Cooling only
B67D 2210/00107	....	by spraying fluids on the inner or outer surfaces of the receptacles to be filled
B67D 2210/0011	.....	The sprayed fluid being a liquid
B67D 2210/00112	.....	The sprayed fluid being a gas
B67D 2210/00115	.....	The sprayed fluid being a cryogen
B67D 2210/00118	...	Heating and cooling
B67D 2210/0012	..	related to concentrate handling
B67D 2210/00123	...	Preparing a mix of concentrates
B67D 2210/00125	...	Treating or conditioning the concentrate, e.g. by heating, freezing
B67D 2210/00128	..	relating to outdoor use; movable; portable
B67D 2210/00131	...	wearable by a person, e.g. as a backpack or helmet
B67D 2210/00133	...	wheeled
B67D 2210/00136	....	vehicle carried
B67D 2210/00139	....	Trolleys
B67D 2210/00141	..	Other parts
B67D 2210/00144	...	Magnets, e.g. used in valves or for stirring
B67D 2210/00146	.	Component storage means
B67D 2210/00149	..	Fixed containers to be filled in situ
B67D 2210/00152	...	Automatically
B67D 2210/00154	....	Level detected by a float
B67D 2210/00157	....	Level detected electrically by contact with sensors

- B67D 2210/0016 . . Adapted for dispensing high viscosity products
- B67D 2210/00163 . . . Agitators
- B67D 2210/00166 . . . Heated tubes