

**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 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 ( <a href="#">B67D 1/0418</a> 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 ( <a href="#">apparatus for generating gases in general B01J 7/00</a> ) }
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 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 1/08 . Details
- B67D 1/0801 .. { of beverage containers, e.g. casks, kegs }
- B67D 1/0802 ... { Dip tubes ( for pressurized containers [L67D 1/00L20C10](#), [L67D 1/00L20C20](#) ) }
- 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 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 ( flowmeter per se [G01F 1/00](#), [G01F 3/00](#) ) }
- B67D 1/0857 .. { Cooling arrangements ( cooling systems per se [F25B](#) ) }
- 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 ( level indicators in general <a href="#">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 ( advertising in general <a href="#">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 ( in general <a href="#">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 1/1256	...	{ Anti-dripping devices ( Drip trays <a href="#">B67D 1/16</a> ) }
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 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 per se 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 ( [B67D 7/0255](#) takes precedence; for dispensing beverages on draught [B67D 1/0001](#) ) }
- B67D 7/0222 ... { the dispensed quantity of liquid being replaced by air sucked through the dispensing opening }
- B67D 7/0227 .. { by an ejection plunger ( [B67D 7/0238](#) 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 ( for dispensing beverages on draught [B67D 1/04](#) ) }
- 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 ( for dispensing beverages on draught [B67D 1/0462](#) ) }
- 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 ( for dispensing beverages on draught [B67D 1/0829](#) ) }
- 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 7/0476 .. { Vapour recovery systems }
- B67D 7/0478 ... { constructional features or components ( vapour recovery nozzles [B67D 7/54](#) ) }
- 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 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 ( [arrangement of flow- or pressure-control valves B67D 7/36](#); computing, calculating, counting [G06](#) ; coin-freed apparatus for dispensing fluids [G07F 13/00](#); prepayment devices for metering liquids [G07F 15/00](#) )
- B67D 7/085 ... { Testing or calibrating apparatus therefore ( testing or calibrating apparatus for measuring volume flow in general [G01F 25/00](#) ) }
- 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 .... { by wireless communication means, e.g. RF, transponders or the like }
- B67D 7/16 ... Arrangements of liquid meters
- B67D 7/163 .... { of fixed measuring chamber type }
- B67D 7/166 ..... { comprising at least two chambers }
- B67D 7/18 .... of piston type
- B67D 7/20 .... of rotary type
- B67D 7/22 ... Arrangements of indicators or registers ( [indicating or recording in fluid meters G01F 15/06](#) )
- B67D 7/221 .... { using electrical or electro-mechanical means ( [B67D 7/224](#) takes precedence ) }
- B67D 7/222 ..... { involving digital counting }
- B67D 7/224 .... { involving price indicators }
- B67D 7/225 ..... { combined with variators }
- B67D 7/227 ..... { using electrical or electro-mechanical means }
- B67D 7/228 ..... { using digital counting }
- B67D 7/24 ... with means for producing or issuing a receipt or record of sale
- B67D 7/243 ..... { using electrical or electro-mechanical means }
- B67D 7/246 ..... { involving digital counting }
- B67D 7/26 ... with resetting or zeroing means
- B67D 7/263 ..... { using electrical or electro-mechanical means }
- B67D 7/266 ..... { involving digital counting }
- 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 ( [B67D 7/10](#), [B67D 7/14](#) take precedence )
- B67D 7/301 .... { using mechanical means ( [B67D 7/306](#) takes precedence ) }

B67D 7/302	....	{ using electrical or electro-mechanical means ( <a href="#">B67D 7/307</a> takes precedence ) }
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 ( leak detectors for underground fuel dispensing systems <a href="#">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 ( use of compressed air or gas for transferring liquids <a href="#">B67D 7/0238</a> , <a href="#">B67D 7/72</a> ) }
B67D 7/3272	....	{ using pumps }
B67D 7/3281	...	{ Details }
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</a> takes precedence ) }
B67D 7/36	..	Arrangements of flow- or pressure-control valves ( associated with nozzles <a href="#">B67D 7/42</a> )
B67D 7/362	...	{ combined with over-fill preventing means ( indicating or measuring liquid level <a href="#">G01F 23/00</a> ; level control <a href="#">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 ( hoses in general <a href="#">F16L 11/00</a> )
B67D 7/40	...	Suspending, reeling or storing devices ( supports for storing lengths of hoses, in general <a href="#">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 ( mixing devices <a href="#">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</a> ) }

- takes precedence ) }
- 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 ( [B67D 7/44 takes precedence](#) )
- B67D 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](#) )
- 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 ( [coin-free apparatus G07F 13/06](#) )
- 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 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
- B67D 9/00** **Apparatus or devices for transferring liquids when loading or unloading ships**  
( [ship-based equipment B63B 27/00](#) )

B67D 9/02 . using articulated pipes

**B67D 99/00 Subject matter not provided for in other groups of this subclass**

**B67D 2001/00 Apparatus or devices for dispensing beverages on draught ( [B67D 3/00](#) takes precedence; apparatus for making beverages [A47J 31/00](#) )**

B67D 2001/0042 . { Details of specific parts of the dispensers }

B67D 2001/0081 .. { Dispensing 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 2001/04 . Apparatus utilising compressed air or other gas acting directly or indirectly on beverages in storage containers

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 2001/07 . Cleaning beverage-dispensing apparatus { ( [B67D 1/0834](#), [B67D 1/0837](#) take precedence ) }

B67D 2001/075 .. { Sanitising or sterilising the apparatus }

B67D 2001/08 . Details

B67D 2001/0801 .. { of beverage containers, e.g. casks, kegs }

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

<a href="#">B67D 2001/0821</a>	....	having different compartments for different components
<a href="#">B67D 2001/0822</a>	...	Pressurised rigid containers, e.g. kegs, figals
<a href="#">B67D 2001/0824</a>	....	with dip tubes
<a href="#">B67D 2001/0825</a>	....	details of dip tube
<a href="#">B67D 2001/0827</a>	...	Bags in box
<a href="#">B67D 2001/0828</a>	....	in pressurised housing
<a href="#">B67D 2001/12</a>	..	Flow or pressure control devices or systems { e.g. valves, gas pressure control, level control in storage containers }
<a href="#">B67D 2001/1252</a>	...	{ Gas pressure control means, e.g. for maintaining proper carbonation ( for beer engines <a href="#">B67D 1/025</a> ) }
<a href="#">B67D 2001/1254</a>	....	comprising means for making a mixture of gases
<a href="#">B67D 2001/1259</a>	...	Fluid level control devices
<a href="#">B67D 2001/1261</a>	....	the level being detected mechanically
<a href="#">B67D 2001/1263</a>	....	the level being detected electrically
<a href="#">B67D 2001/1265</a>	.....	Pressure switches
<a href="#">B67D 2001/1268</a>	.....	Capacitors
<a href="#">B67D 2001/14</a>	...	Reducing valves or control taps
<a href="#">B67D 2001/1483</a>	....	electrically or electro-mechanically operated
<a href="#">B67D 2001/1488</a>	....	pneumatically operated
<a href="#">B67D 2001/1494</a>	....	Taps with means for adjusting the position of a compensator from outside
<b>B67D 2007/00</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> )
<a href="#">B67D 2007/04</a>	.	for transferring fuels, lubricants or mixed fuels and lubricants
<a href="#">B67D 2007/0401</a>	..	{ arrangements for automatically fuelling vehicles, i.e. without human intervention }
<a href="#">B67D 2007/0403</a>	...	Fuelling robots
<a href="#">B67D 2007/0405</a>	....	Opening devices
<a href="#">B67D 2007/0407</a>	.....	for fuel tank flaps
<a href="#">B67D 2007/0409</a>	.....	using vacuum cups
<a href="#">B67D 2007/0411</a>	.....	using grippers
<a href="#">B67D 2007/0413</a>	.....	using air blast
<a href="#">B67D 2007/0415</a>	.....	for filler caps
<a href="#">B67D 2007/0417</a>	....	Manipulator arms
<a href="#">B67D 2007/0419</a>	....	Fuelling nozzles
<a href="#">B67D 2007/0421</a>	.....	with locking devices
<a href="#">B67D 2007/0423</a>	....	Fuelling hoses
<a href="#">B67D 2007/0425</a>	.....	comprising a single hose for several fuels
<a href="#">B67D 2007/0426</a>	.....	comprising several hoses for several fuels
<a href="#">B67D 2007/0428</a>	.....	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 2007/0476	..	{ Vapour recovery systems }
B67D 2007/0478	...	{ constructional features or components ( vapour recovery nozzles <a href="#">B67D 7/54</a> ) }
B67D 2007/0494	....	Means for condensing the vapours and reintroducing them into the storage tanks
B67D 2007/06	.	Details or accessories
B67D 2007/32	..	Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid
B67D 2007/3281	...	{ Details }
B67D 2007/329	....	Function indicator devices
B67D 2007/42	..	Filling nozzles
B67D 2007/54	...	with means for preventing escape of liquid or vapour or for recovering escaped liquid or vapour ( <a href="#">B67D 7/44</a> takes precedence )
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 2007/74	..	Devices for mixing two or more different liquids to be transferred ( <a href="#">coin-freed</a>

apparatus [G07F 13/06](#) )

- 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 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**

- 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