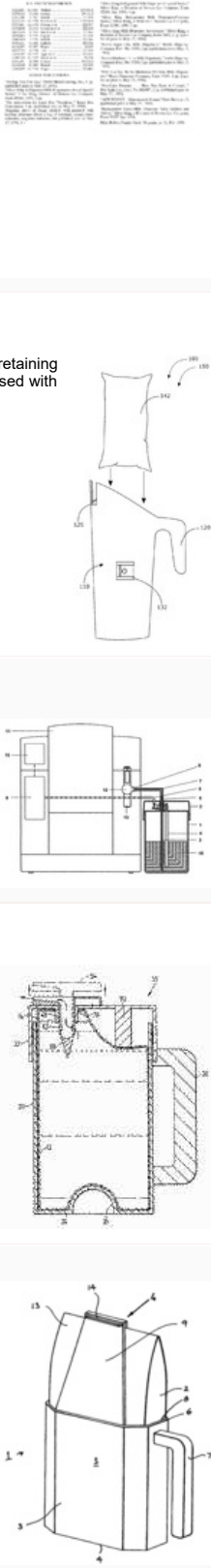
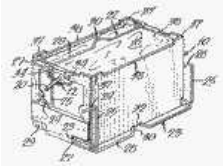
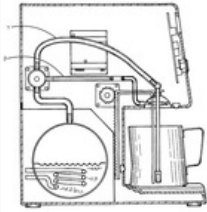
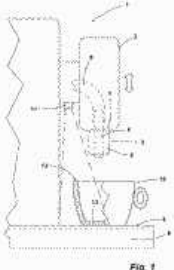
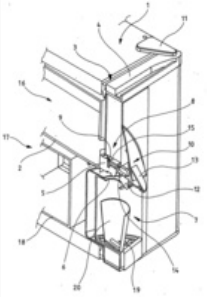
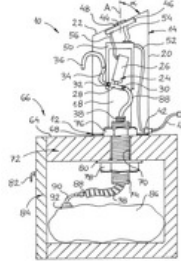
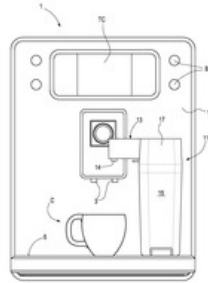


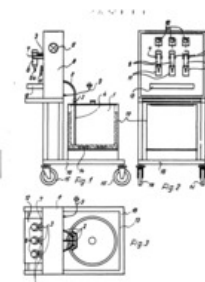
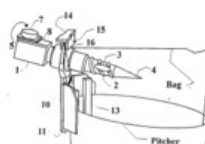
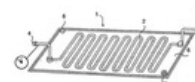
Patent families - 8000 results						
#	 	Title	Publication number	Publ. date	Applicant/Assignee	
1.		Valve for beverage dispenser	US5938078	1999-08-17	SILVER KING REFRIGERATION	100 %
A beverage dispenser, usable in dispensing milk, has a large refrigerated cabinet for housing large beverage containers. The beverage dispenser has a handle/valve with a first closed position, a second open position, and a third position for insertion and removal of a flexible milk tube. The handle includes two arms, and the user holds a cup between the two arms to receive the dispensed milk. The valve includes a cooling plate which refrigerates the milk in the flexible milk tube extending through the valve. The valve has a pinch plate which closes the flexible tube with a rocking motion, initially pinching the flexible tube at its lowest point and subsequently reopening the tube slightly to suck any beverage drops on the end of the tube back up into the tube. A hinged shelf is provided for ease of loading and unloading milk cases in and out of the refrigerated cabinet. The milk case has angled hand hold openings to allow lifting without repositioning of the wrists. The milk case is specially made to receive a connector from a milk bag, and includes a tie which raises the flexible milk tube prior to insertion of the flexible tube into the valve. A secondary shut-off mechanism is on the inside of the cabinet to shut off flow control by the handle.						
2.		Milk jug and method	US20180118552	2018-05-03	DIROMA ANTONIO LOCKE PAUL	100 %
A milk jug includes a pitcher body, a handle, a blade retainer, and an expiration tag retainer. The milk jug is useful for containing and dispensing milk packaged in bags while retaining necessary accessories on the pitcher. The milk jug improves the utility and convenience of using milk bags by preventing the loss of the blade and expiration tag commonly used with milk bags.						
3.		Method for dispensing milk portions in drink preparation machines	EP2101619	2009-09-23	JURA ELEKTROAPPARATE JURA ELEKTROAPPARATE	100 %
The invention relates to a method for dispensing milk portions in drink preparation machines having a milk fill level monitoring unit for a milk container (1). According to the method, one delivery of a milk portion from the milk container (1), said delivery being controlled by a device control electronic system (9), is only carried out completely and with a sufficient quantity of milk when during the delivery of the milk portion, the milk fill level monitoring unit signals a drop in the fill level of the milk below a threshold value.						
4.		Pitcher with spout	US5141134	1992-08-25	KUHI ROBERT MACHADO, LEONEL E.	100 %
A pitcher for use in dispensing liquid from a flexible-walled, liquid containing pouch. The pitcher includes a container adapted for receiving a pouch, and a cover adapted for engagement with the container. A cylindrical sleeve is mounted on the cover in conjunction with a spout having a piercing point for piercing the wall of the pouch and a hollow cylindrical portion having an access port in a wall thereof for communication with a pouring portion of the spout. The sleeve receives the cylindrical portion of the spout and is adapted for forming a seal with a puncture hole in the wall of the pouch formed by the piercing point of the spout. The spout is slideably moveable relative to the sleeve and is capable of movement between a sealing configuration, in which the sleeve covers the access port, and a pouring configuration in which the access port is exposed. A pusher member is mounted on the cover for pushing downwardly on the wall of the pouch to push the wall adjacent the sleeve and spout up and into engagement with the piercing point as the cover is pushed downwardly on the container.						
5.		Pitcher for holding flexible bags of milk or other liquids	US20060096943	2006-05-11	RAPOSO, PETER	100 %
A pitcher for holding flexible bags filled with milk or other liquids. The pitcher comprises a substantially rigid housing having a bottom, sides and a generally open top forming a generally hollow interior capable of receiving therein a flexible bag filled with liquid. The housing is dimensioned so that at least a portion of the bag extends upwardly through the open top when the bag is received within the hollow interior. At least one bag clamping member is attached to the housing and is movable between an engaged position and a disengaged position. When it is in its disengaged position the clamping member is generally adjacent to the sides of the housing. When it is in its engaged position the clamping member extends upwardly from the open top of the housing and is releasably securable to a portion of a bag received within the hollow interior of the housing to assist in maintaining the bag in an upright configuration.						



3/6/2020					
6.	Combination liquid container and dispenser	US3940018	1976-02-24	SCHOLLE IPN	100 %
A combined container and dispenser for liquids such as milk and the like comprises a reusable, rigid case having an open top, and containing a flexible plastic bag filled with liquid, the bag having a dispensing tube extending therefrom near one end of the case to enable dispensing of the liquid by gravity after the case is disposed on its one end in an appropriate dispenser. The case includes a pair of pivotally mounted brackets adapted to be pivoted or folded over the open top of the case into a closed position to retain the filled bag in the case during dispensing of the liquid. When the brackets are in their closed position, overlying the open top of the case, the dimensions of the case correspond to those of the standard disposable bulk milk box that fits within a standard bulk milk dispensing cabinet. When closed the brackets increase the width dimension of the case.					
7.	Espresso milk frother	EP2983571	2016-02-17	PURTON, WILLIAM WESTMORE WILLIAM WESTMORE PURTON	100 %
A milk frothing apparatus which includes a steam probe; a jug and jug support; a sensor to determine the depth of milk in a jug. The steam probe or jug support is movable preferably driven by stepper motor, to maintain the tip of the probe below the milk surface. A temperature sensor monitors the temperature of the milk in the jug. A micro controller is programmable to start the process; maintain the position of the steam probe relative to the milk surface, stop the process when the milk reaches a desired temperature and maintain records of the number of cycles and a measure of the quantity of milk treated. By using a sensor to measure the distance to the milk surface in a jug the tip of the steam probe can be maintained at the appropriate distance below the milk surface by moving the jug relative to the probe or preferably moving the probe. The process can be more precisely controlled by sensing the milk temperature and ensuring that the process is completed before the milk becomes too hot. The units may use steam generated in the espresso machine or use a designated steam boiler. The units may have multiple stations each with a jug and steam probe and associated temperature sensor. The stations may have the provision of a locking mechanism to prevent removal of the jug while the process is in progress.					
8.	Milk dispenser container	US3871559	1975-03-18	PARISH MANUFACTURING	100 %
A container for holding a flexible bag of milk for the dispensing thereof. The container is fittable within a refrigerated milk dispenser cabinet. The container has a removably mounted front wall which is transparent. The bottom wall of the container slants upwardly from the transparent front wall and supports the flexible bag of milk. The bag has a dispensing tube which extends through an aperture in the slanted bottom wall adjacent to the transparent front wall and located at the lowermost point of the container. The transparent front wall has a pair of molded flanges extending the length of the front wall defining a pair of opposed recesses which slidably receive a pair of flanges which extend outwardly from, in perpendicular fashion, the vertical side walls of the container.					
9.	Method for controlling the output of at least one drink component of a mixed coffee-milk drink from a coffee machine	EP2449929	2012-05-09	WIK	100 %
The output of coffee component and milk component is controlled sequentially in response to the level of the drinking cup (10), while controlling the discharge of coffee-milk-based drink. The output of milk component is terminated when a predetermined filling level is reached in the cup through the output of the milk component. The milk component is output first and after completion of the output of milk component, the coffee component output takes place. (From EP2449929 A1)					
10.	Dairy-based beverage dispenser, method for dispensing hot, dairy-based beverages and disposable container for dairy-based liquids	EP1374748	2004-01-02	ROLAND BIKE ECKENHAUSEN USA COLORADO 8 0 1 1 1 DENVER HAYCAIRY CIRCLE 9 6 3 3 STEVEN SHIHKENHAUSEN USA CALIFORNIA 9 0 8 0 3 LONG BEACH RIVO ALTO CANAL 2 4 ECKENHAUSEN, ROLAND B. ECKENHAUSEN, STEVEN C. Eken Oberhausen Steven 1 more...	100 %
The invention relates to a beverage dispenser (10) for dispensing hot dairy-based beverages that has a self-contained refrigerated unit (18) located above a venturi-type emulsification foaming head (40). In addition to carton and/or plastic milk containers, the refrigeration unit can also accommodate a "bag in box" cold milk storage container. The refrigerated milk is stored above the level of the foamer head so that the flow of milk results partially from gravitational force on the milk, and is not totally dependent upon venturi suction created in the foamer head. The invention also relates to a method for emulsifying dairy-based liquids with other liquids and a disposable container for dairy-based liquids. <IMAGE>					
11.	Apparatus comprising a cooling device for at least one bag-in-box package	EP2129617	2009-12-09	SQUELL PRODUKTION & HANDEL SQUELL PRODUKTION & HANDEL 68766 HÖCKE SQUELL SYSTEMGETRAENKE	100 %
Disclosed is an apparatus comprising a cooling device for at least one bag-in-box package, a feed hole for the bag-in-box package, at least one device door that closes the feed hole, and at least one beverage outlet which can be associated with the tapping valve of the bag-in-box package. The beverage outlet (6) is disposed within the device door (4).					
12.	Automated coffee apparatus	EP0472272	1992-02-26	CONCORDIA COFFEE ACORTO CAFFE ACORTO	100 %
An automated espresso coffee machine and method are disclosed which include fully automatic coffee grinding and brewing apparatus (24 to 32) and steam generator means (70) for driving a venturi mixing device (90) which draws ambient air and milk from a refrigerated source (94) for making milk inclusive espresso beverages, all milk contacting surfaces being either refrigerated or steam cleaned with each beverage made and served. Micro-processor means controls all operations including brewing, steam generating, water heating, refrigerating, operations parameters, measuring and monitoring, many "housekeeping" functions and others. <IMAGE>					

13.	All-purpose dispenser	EP0815026	1998-01-07	RAPID CARTRIDGE DISPENSING SYSTEMS	100 %
An all-purpose dispensing unit (11) for dispensing liquid products such as milk, cream, juices, iced tea, water, liquid eggs, fruit drinks, lemonade, wine, and other liquids, and for dispensing bulk products such as salad dressings and condiments including ketchup and mustard, comprises a cabinet (13) having a chamber (15) adapted to receive one or more cartridges (18, 19, 20) with each cartridge containing a different selected liquid to be dispensed. Each cartridge comprises a container (21) for holding the liquid, a front door panel (23) on the cartridge adapted to close the front wall opening (17a-17c) of the cabinet chamber to prevent the escape of cold air from the chamber and act as a door to the cabinet chamber, and a dispensing valve (25) extending outwardly from the front door panel and connected to the liquid in the container.					
14.	Coffee machine	EP1747743	2007-01-31	WMF WMF - WURTTENBERGISCHE METALLWARENFABRIK WMF WUERTTEMBERGISCHE METALLWARENFABRIK	100 %
Coffee machine for preparing hot milky drinks comprises a storage unit for concentrated liquid milk and a mixing unit for mixing the milk with water Coffee machine (1) comprises a storage unit (15) for concentrated liquid milk and a mixing unit (17) for mixing the milk with water. An independent claim is also included for a method for preparing hot milky drinks in the coffee machine. Preferred Features: The coffee machine contains a hot water preparation device and the mixing unit is connected to the preparation device. A cold water source (13) is also connected to the mixing device to mix the milk with cold water. A steaming unit (28) heats the mixture of milk and cold water with steam.					
15.	Container for bulk liquids such as milk	US3908864	1975-09-30	CAPPER MAX V	100 %
A container for the handling and dispensing of bulk liquids, such as milk, consists of a primary single service flexible plastic bag with dispensing tube, a single service semi-rigid protective cover for the primary bag which is foldable into a box-like configuration from an initially flat blank, and a reusable carrying and utilization case which is rigid and durable in construction and of a size to receive the folded protective cover snugly so that the shape of the latter will be maintained without the use of tape, staples or sealants. The reusable carrying and utilization case includes a removable reusable closure element for the normally open side of the case which assures that the folded protective cover will be stabilized during use and during up-ending of the container for placement into a dispensing cabinet or machine.					
16.	Milk dispenser	WO2015/173831	2015-11-19	MILKIT ISRAEL	100 %
A dispenser for dispensing milk from a bulk container. The dispenser is mounted outside of a refrigerator and the bulk container is stored within the refrigerator. The dispenser is provided with means for conveying the milk from the bulk container to a pouring spout. Several bulk containers may be connected together to form a large bulk container of milk that is kept refrigerated in its entirety.					
					
17.	Beverage frothing device and jug comprising said device	EP3073874	2016-10-05	PHILIPS	100 %
The beverage frothing device comprises a first beverage passageway comprised of: a first beverage suction chamber (13) in communication with a first beverage suction duct (17) and a first steam inlet duct (21), wherein the first beverage suction duct is configured for communication with a beverage container; an air inlet port (27A); a frothing arrangement for mixing beverage delivered through the first beverage suction duct (17) with air from the air inlet port (27A) and producing frothed beverage; a first beverage dispensing spout (31), wherefrom frothed beverage is dispensed. The beverage frothing device further comprises a second beverage passageway comprised of a second beverage suction chamber (15) in communication with a second beverage suction duct (19) and a second steam inlet duct (23), wherein the second beverage suction duct is configured for communication with the beverage container. A steam feeding arrangement is further provided, which is configured for dispensing steam selectively to the first steam delivery duct (21), for producing frothed beverage, or to the second steam delivery duct (23) for producing hot, unfrothed beverage.					
18.	A jug for beverages and beverage producing machine comprising said jug	EP2994026	2016-03-16	PHILIPS	100 %
The jug (11) comprises jug body (15) and a beverage frothing device (13) arranged on the jug. The beverage frothing device comprises a steam inlet (23, 25, 27), a beverage inlet (35, 35C), and a frothed beverage outlet (14). The frothing device is slidably arranged in a seat (19) and is movable between a retracted position and an extended position. In the extended position the frothed beverage outlet (14) projects beyond a side wall of the jug body.					
					
19.	Output device for milk and/or milk foam and a coffee machine with such an output device	EP2220972	2010-08-25	JURA ELEKTROAPPARATE JURA ELEKTROAPPARTE JURA ELEKROAPP	100 %
Dispensing device for use in coffee machine to dispense e.g. coffee beverage, has drive motor adjusting regulating shaft of valve, where regulating shaft is moved by controlling drive motor by control device into predetermined positions The device (10) has a mixing device for mixing steam, milk and air. The mixing device comprises a first line, a second line and a third line for supply of milk, steam and air into a chamber. A valve comprises an adjustable regulating shaft for regulating supply of milk and air into the chamber by adjusting the regulating shaft. A drive motor adjusts the regulating shaft of the valve, and a control device (35) controls the drive motor, where the regulating shaft is moved by controlling the drive motor by the control device into respective predetermined positions.					
20.	Valve for use with flexible dispensing tube	US4373647	1983-02-15	HOLLINGSWORTH CALVIN R	100 %
A dispenser for use with bulk containers of milk or other refrigerated liquid products having a gravity feed, dispensing nozzle extending from the bottom of a bladder or other liquid container. The valve, through the use of an articulated linkage, serves to both open and close the flexible nozzle and further to retract the nozzle and the liquid contained therein up into the refrigerated main storage area. A basket pivotally mounted upon a track system receives the bladder and is capable of both pivoting about a horizontal axis and moving outwardly with respect to the box to permit easy removal and replacement of the liquid containing bladder.					
21.	Bag storing liquid and container storing the bag	EP1106527	2001-06-13	MAKINO SOGO KENKYUJO MAKINO SOGO KENKYUSHO SANKYO SEIKI SEISAKUSHO	100 %
A container (11) for a liquid containing bag. The container is capable of adjusting the flow rate of a liquid (41) to be poured out. The container includes a container body (12) having an opening (24), and a cap (13) for selectively closing the opening. The container body is closed by a pair of lids (17). The upper end portion of the bag (42) is supported between mating faces (25) of the lids. The cap has fasteners (37) for clamping the upper end portion of the bag. When the cap is slid along grooves (26) formed in the lids, the fasteners close a pourer (43) of the bag.					
22.	Milk cooler, drink preparation machine, combination of a milk cooler and a drink preparation device and method for obtaining an amount of milk	EP2386229	2011-11-16	JURA ELEKTROAPPARATE JURA ELEKTROAPPARTE DZHURA EHLEKTROAPPARAT	100 %
The milk chilling device (10) has a milk container body (12) with a milk container (14) for receiving milk volume (16), a cooling unit (18) for cooling the milk volume and a milk-lance (26), which has an end that is merged in the milk volume and another end that stand in fluid connection with a milk outlet (32) on the outside of the milk chilling device. A filling level sensor (34) is formed to generate a sensor signal in response to a filling level of the milk container. A filling level measuring electronics (36) is connected to the filling level sensor. Independent claims are also included for the following: (1) a beverage preparation machine, which has a milk dispenser; and a beverage preparation machine and milk chilling device assembly, which has an add-on device; and (2) a method for obtaining a milk volume from a milk chilling device. (From EP2386229 A1)					

23.	Method for dispensing a milk-containing composition and disposable heat exchanger for use in the method	EP2919630	2015-09-23	EQUITEC HOLDING	100 %
A method for dispensing a milk-containing composition consisting of a flavour composition and a milk product by supplying the milk product to a removable heat exchanger provided with a flexible tube, wherein the flavour composition is added to the heated milk product in random order after the heat exchanger, cooling the milk product that remains in the heat exchanger after the latter has been emptied for the larger part by means of the heat exchanger after a specified period of time, calculated from the last time dispensing of the milk- containing composition took place, so that it will keep for a comparatively prolonged period of time, and subsequently heating the milk product for a next dispensing action and replenishing it with a next amount of milk product shortly before mixing it with the flavour composition, whereupon the hot milk-containing composition is discharged. The invention further relates to a heat exchanger obviously intended for use in this method.					
24.	Adaptor for milk and juice pitchers	CA2160386	1997-04-13	NAGY, ARPAD Z.	100 %
This device comprises of a tubular tap of a suitable plastic material with a sharp point ending for the purpose of puncturing milk, and juice bags, and the likes, for dispensing their content. The tubular tap is engaged to a base plate, which is attached to the rim of existing milk, or juice bag pitcher. The base plate has 2 sliding rails, which enclose, and direct the tap holder guide to the required height to accomodate the different sizes of bags. By turning the tubular tap body clockwise by hand, thus engaging its longitudinal worm thread, pulling the corner of the bag to the end of the threading, therefore it punctures the bag, makes a tight seal, and the liquid is being dispensed at the front end in a regulated flow.					
25.	Bag sealing apparatus	US5603417	1997-02-18	BLAIR NORMAN T.	100 %
A bag sealing and storage apparatus is made of a generally C-shaped clamp and a tubular locking portion that fits inside the clamp. On either side of the apex of the C, shoulders are extended outwardly to provide space within the clamp for a lapped or folded over part of the bag when it is sealed between the clamp and the locking portion. In addition, there is a protruding spine running along the clamping member that has a flanged end to allow it to be removably engageable with a slot in a cabinet door or the like. Thus, the user can seal a bag and hang it off of the counter, drawer, or cabinet shelf. With the system shown in the present invention, a number of bags can be layered or overlapped to make a space efficient, out of the way, storage system for open, partially used bags.					
26.	Syrup delivery system	US5163587	1992-11-17	PEPSICO REHRIG PACIFIC	100 %
A syrup delivery system including a plurality of open-top, sturdy plastic containers and syrup bags. Each bag is positionable in a separate container with the bag spigot thereof extending accessible out through a container end opening. The open gridwork bottom of the container slopes to the container end opening so that the syrup in the bag can drain more completely out through the spigot with the container supported on a flat level surface. The containers have top locking posts, bottom stacking feet, and undulating-like sides. With the containers aligned so that their end openings face the same direction, the containers can be stacked one on top of the other with the posts of the bottom container engaging up into the feet of the top container. To unstack, the top container is tilted forward, the posts and feet thereby disengage, and the tilted top container easily slid down the sloping front lip of the lower container. To nest the containers, the top container is rotated 180 degrees about a vertical axis and the containers, due to their undulating sides, nest together in a relatively compact two-to-one nesting ratio. In the nested position the posts of the bottom container extend up into openings in horizontal support surfaces positioned mid-way up the sides of the top container.					
27.	Cappuccino maker	WO97/49318	1997-12-31	CONAIR	100 %
A cappuccino maker having a housing (12), a steam source (48, 49), a coffee filter (78) and holder (26) for making coffee using water from the steam source, a coffee dispensing spout (80) for dispensing the coffee, a milk frother (60) and a milk dispensing spout (66) for dispensing the frothed milk, wherein the milk dispensing spout and the coffee dispensing spout are capable of dispensing milk and coffee over a single container-receiving location (22), thus permitting milk and coffee to be dispensed into a container (C) without having to move the container, and also having a milk receptacle (16) having a valve (32), and a first base (20) for the milk receptacle having a valve actuator (34) for engaging the valve and a raised lip (36) for receiving the milk receptacle or, in the absence of the receptacle, a cleaning fluid, the lip forming a reservoir on the first base.					
28.	Milk dispensing device	DE7411421	1977-08-18	MELITTA WERKE BENTZ & SOHN 4950 MINDEN	100 %
No abstract available					
29.	Milk dispenser	WO2014/141041	2014-09-18	ARIES	100 %
A milk dispenser (1), comprising a tank (2) for containing milk, a cooling circuit (3) having a spiral evaporator (4) arranged externally to the tank (2) to cool the milk present in the tank (2), a metal casing (6) which externally surrounds the tank (2) and the cooling circuit (3), and a nozzle (7) externally facing the metal casing (6) and in fluid connection with the tank (2) to release at least a part of the milk contained in the tank (2).					
30.	Infant formula preparation apparatus	EP1484999	2004-12-15	CHEONG, HOW ONN HOW ONN CHEONG ONN CHEONG HOW	100 %
An apparatus for dispensing infant formula including, a steriliser (2) for sterilising a bottle, a milk powder container (4) for dispensing milk powder into the bottle, a water container (3) for dispensing water into the bottle and a controller (8) to control operation of the apparatus.					
31.	Container	US4653671	1987-03-31	DUFFY CHRISTENE	100 %
A jug for pouring liquids such as milk packaged in flexible rectangular pouches has a cross section and height such as to enclose the bag for its full height, the base of the jug being inclined so as to tilt the bag against a flattened front wall of the jug with a top corner projecting through a spout opening where it can be cut to form a pouring spout. The jug has a removable lid which is arched and has inturne side flanges which are pressed apart by out-turned side flanges at the top edges of the sides of the jug as the lid is pushed forward onto the jug so that the lid frictionally grips the jug. Rearward and downward pressure on the arch of the lid tends to force the inturned flanges apart and release the lid.					
32.	Refrigerated liquid dispenser having a shut-off valve	US5249706	1993-10-05	SZABO JOHN	100 %
A dispenser for liquids having an insulated cool chamber to receive a liquid container with a flexible tube for flow of liquid, a heat exchanger or pump in the chamber to pump liquid along the tube, a shut-off valve in the chamber below the pump with an opening for the tube to pass to a dispensing point outside the chamber, a motor and shaft for driving the pump, and gears connected between the motor shaft and the pump, a revolution counter coupled to the motor shaft, and connected to a counter logic circuit to count each revolution of the motor shaft, and manual controls mounted on the chamber and connected to the shut-off valve and to the motor, and to the counter logic circuit so that the shut-off valve opens within the chamber and the motor is started thereby driving the pump within the chamber, and automatically stopping the motor shaft when the predetermined count is reached, thereby maximizing the accuracy of the volume of liquid pumped by the pump.					
33.	Method and device for supplying food	EP2020198	2009-02-04	FRANKE KAFFEEMASCHINEN NIRO PLAN	100 %
Liquid food e.g. milk, discharging device for use in coffee machine, has pressure sensors measuring filling level of containers and arranged such that pressure in containers is measurable by pressure sensors The device (1) has milk pumps (2a, 2b) connected with containers (4a, 4b) e.g. milk bag, for liquid food in such a manner that the liquid food is discharged from the containers by the pumps. Pressure sensors (5a, 5b) measure a filling level of the containers, where the device is implemented in such a manner that a pumping process is interrupted depending on measuring signals of the sensors during falling below or exceeding of a predetermined measuring signal threshold. The sensors are arranged in such a manner that the pressure in the containers is measurable by the pressure sensors. A independent claim is also included for a method for discharging liquid food.					



34.	Drink preparer with fill level sensor	EP2036470	2009-03-18	EUGSTER FRISMAG MIELE EUGSTER FRISMAG AMRISWIL MIELE 33332 GUETERSLOH	100 %
Beverage preparer i.e. coffee dispenser, for preparing beverage e.g. coffee, has milk container including sensor i.e. capacitive fill level sensor, for measuring fill level of liquid i.e. milk, in milk container. The preparer has a milk container (2) including a sensor i.e. capacitive fill level sensor, for measuring a fill level of a liquid i.e. milk, in the container. The preparer is equipped for automatically coupling a section including coupling piece, end parts and tubes, of a pipeline in the container with a section i.e. coupling unit, of a pipeline in a device e.g. installation device, and for coupling the sensor with a sensor pipeline in the device. The coupling of the sections of the pipelines and the coupling of the sensor with the sensor pipeline take place in a spatially separated manner.					
35.	Milk steamer	US20150104548	2015-04-16	G E W INTERNATIONAL GENERAL INTERNATIONAL ENTERPRISE	100 %
In a milk steamer, a changeover valve and a vent valve are connected to the inlet and the outlet of a steam-generating thermoblock to provide ready draining of water, and to mitigate condensation of steam that draws milk into the steam nozzle. In an automatic milk steamer, the height of the steam nozzle above the milk level is automatically set by interaction between a drive mechanism and a liquid level sensor.					
36.	Container adapted to hold and dispense bagged fluids	EP1697252	2006-09-06	INTERNATIONAL PACKAGING INNOVATIONS	100 %
A fluid dispensing apparatus comprising a bag containing fluid, a container that provides support for the bag, a spike comprising a hollow stem through which fluid can flow, the spike being connected to the bag at a joint created upon the puncturing of the bag by the spike, and a dispensing mechanism for controlling the flow of fluid from the bag, which dispensing mechanism is connected to the hollow stem, and wherein the dispensing mechanism is operated to allow fluid flow.					
37.	Device for handling, supporting, carrying and/or dispensing flowable agents	WO2009/056890	2009-05-07	GREEN ALAN GREEN ALAN JOSEPH	100 %
A holder for flowable agent is comprised of an assembly of the holder and a valve to control the flow of flowable agent. The holder is a flexible container in direct contact with the flowable agent or a support for such a container. The holder comprises means to be oriented for use such that the direction of flow of the flowable agent is enabled by the user, the holder further comprises means to be reduced in volume by pressure applied to the walls of the holder. The holder is further characterised as comprising a valve that has means to be releasably functionally applied to that part of the assembly that is in direct contact with the flowable agent without necessarily being fixedly attached to it.					
38.	Device for storing and squeezing sachets	WO03/086897	2003-10-23	UNILEVER BESTFOODS UNILEVER	100 %
A device for holding sachet and emptying its content comprising two hingedly connected members through which the sachet is placed wherein at least one member comprises an aperture through which the outlet of the sachet is passed.					
39.	Apparatus for producing a beverage comprising a coffee machine and a container for a liquid foodstuff	EP3162257	2017-05-03	DE LONGHI APPLIANCES DE LONGHI APPLIANCES LONGHI APPLIANCES S R L	100 %
The apparatus for producing a beverage comprises a coffee machine (1) and a container (2) for a liquid foodstuff, a wireless transmitter (13) having a logical unit (14) being incorporated in the coffee machine (1), and a wireless receiver (15) having a logical unit (16) communicating with the logical unit (14) of the transmitter (13) and at least one peripheral unit (17, 17', 17", 17''') communicating with the logical unit (16) of said receiver (15) being incorporated in the container (2).					
40.	Device for heating and foaming milk and related method	EP2389848	2011-11-30	GRUPPO CIBALI	100 %
The present invention relates to a device (1) for heating and foaming milk comprising a support surface (10) for receiving a container (6) containing milk, a steam wand (5) provided with an open end (7) suitable for being immersed in the container (6), and at least one contactless temperature transducer (9) disposed in proximity to the support surface (10) for detecting the temperature of the milk when contained in the container (6). The temperature (9) transducer preferably comprises an infrared sensor (8) and the detection of the temperature of the milk takes place via detection of the temperature of at least one portion of the outer surface of the container (6).					
41.	Storage container for storing a food liquid, such as milk	EP2604544	2013-06-19	WIK	100 %
The reservoir (1) has a thermal insulated milk storage container (7) having top-side output port for extracting required preparation liquid from the container. A handle (8) is pivotally connected with the container, for supporting the container. The handle is provided with a closure element for sealing the dispensing aperture provided on the handle. The discharge aperture is closed through the closure element at the time of non-usage condition of the handle such that handle is folded-down. (From EP2604544 A1)					
42.	Modular manufacturing of beverage production machines	EP2222212	2010-09-01	NESTLE NESTEC	100 %
The invention proposes a modular method of manufacturing a set of beverage production machines with different beverage-related functions. The beverage production machines are designed for producing a beverage on the basis of pre-portioned ingredient packages. The method comprises the step of: providing a plurality of identical core units (2,2A,2B), the core units being provided with control circuitry (23) and a beverage production module (11) for housing an ingredient package and feeding a liquid to the interior of the ingredient package, - providing a plurality of different base platforms (1,3,4), the base platforms differing as to beverage production functions, and manufacturing a set of different beverage production machines by mounting respectively at least one of the core units on the top surface of one out of the plurality of differing base platforms and by mounting water reservoirs (7) on the base platforms.					
43.	Temperature dependent device	WO2016/081388	2016-05-26	PANTCHENKO OXANA S	100 %
The present disclosure relates generally to a temperature dependent device. Embodiments of the invention provide information regarding the useful life of perishable goods.					
44.	Automatic flavoring dispenser for automated espresso machine	EP1909590	2008-04-16	CONCORDIA COFFEE	99 %
An automated hot beverage dispensing machine and method for producing hot beverages is disclosed. The preferred apparatus includes a plurality of flavoring reservoirs connected through pumps and valves to a plenum that dispenses the flavoring directly into a mixing chamber. The mixing chamber also receives milk and steam, facilitating mixing of the milk, steam, and flavoring, and dispensing the mixture into a serving cup. The dispensing machine may include a coffee brewing system, whereby the machine can produce flavored lattes, cappuccinos, and the like, hi the preferred embodiment, pressurized steam is directed through a Venturi assembly that draws in refrigerated milk and ambient air and delivers the fluids to a vortex mixer to produce steamed and/or foamed milk. The flavoring is delivered to the vortex mixer, and steam is channeled to the plenum to facilitate delivery of the flavoring and maintain the cleanliness of the plenum.					
45.	Container for retaining liquids and method of using the same	US20130206790	2013-08-15	PAUZE, ADAM	99 %
A jug for retaining a plastic bag containing a liquid and a method of using the same. The jug includes a bottom and a peripheral wall extending upwardly therefrom and defining a cavity for receiving the bag. The peripheral wall terminates in a rim and a handle extends outwardly from the peripheral wall's exterior surface. An engagement means is provided on the jug to engage the bag and retain it within the cavity when the jug is tilted to pour the liquid therefrom. The engagement means preferably is a slit defined in the rear region of the peripheral wall adjacent the handle. The slit originates in the rim and extends downwardly for a distance. A portion of a rear region of the bag is slid into the slit and wedged therein. The wedged portion extends into a compartment defined by a retaining wall that extends outwardly from the peripheral wall.					
46.	Disposable storage and dispensing carafe	EP1326784	2003-07-16	LBP MANUFACTURING ABBOT GREGORY AZEER MICHAEL GEORGE ABBOT MARITAL TRUST IDC IDND A COLORADO LIABILITY 3 more...	99 %
An improved disposable storage and dispensing carafe which allows the easy transport and dispensing of a bulk volume of a hot or cold liquid in a throw-away container (11). The carafe comprises a rigid frame having a dispensing outlet (17), a pliable or plastic bag (19) for holding a hot or cold liquid having a rigid spout affixed thereto, means for detachably connecting the rigid spout to the dispensing outlet, and an insulating jacket (20) detachably connected to the frame and enveloping the pliable or plastic bag.					
47.	Coffee machine with a system for a single dose dispensing of emulsionated and heated milk	EP3442382	2019-02-20	DE LONGHI APPLIANCES DE LONGHI APPLIANCES DE LONGHI UPRICH CHASE ESSA@ ELE ELE DE LONGHI APPLIANCES S R L LONGHI APPLIANCES S R L	99 %
The coffee machine (1) with a system for emulsifying and heating milk comprises a body (2) having a coffee dispenser (3) and a device (4) for emulsifying and/or heating milk having a carafe (6) for containing the milk and a lid (7) for closing the carafe (6), means (8) for conveying the steam generated inside the coffee machine, to a Venturi tube (9) present in the lid (7) so as to emulsify and/or heat the milk inside said lid, the device (4) being provided with detection means (12) for detecting the presence of milk in the carafe (6) so as to interrupt the dispensing of milk when said carafe (6) is completely empty.					

48.	Device for dispensing milk and/or milk-foam	EP1472963	2004-11-03	SCHAERER M SCHAERER	99 %
Device for delivering milk and/or milk foam from a container containing milk used in a coffee machine, especially an espresso machine has a line made from a flexible tubing which is placed in a squeezed tube pump Device for delivering milk and/or milk foam from a container (1) containing milk has a line (5) made from a flexible tubing which is placed in a squeezed tube pump (9) equipped with adjusting devices (10) to adjust the tubing from a closed state into an open state releasing the opening of the flexible tubing. An Independent claim is also included for a coffee machine, especially an espresso machine, containing the above device.					
49.	Temperature controlled liquid dispenser, containers therefore, and bag-in-box container construction	EP2155601	2010-02-24	GROESBECK R CLAY Growbeck, Earl., Clay	99 %
A dispenser for relative rapid cooling or heating of the contents of a liquid storage container provides a receptacle for receiving the liquid storage container therein and positioning a thermal transfer portion of the liquid storage container in thermal conductive relationship with a thermal conduction pad associated with the receptacle. Thermal energy is effectively and efficiently transferred from the thermal conduction pad to the liquid in the liquid storage container. The thermal conduction pad is controlled to provide and maintain the desired temperature to the liquid. The liquid is dispensed directly from the container. Various types of containers can be used in the dispenser, with a special bag-in-box container having an inner container and outer box with thermal conduction windows in the box to provide good heat transfer between the thermal conduction pads and the inner container constituting an aspect of the invention. A special rigid container can also be used.					
50.	Emulsifying device for emulsifying milk and coffee machine comprising said emulsifying device for emulsifying milk	EP3291715	2018-03-14	DE LONGHI APPLIANCES DELONGHI APPLIANCES LONGHI APPLIANCES S R L	99 %
The emulsifying device (1) for emulsifying milk comprises a Venturi mixing chamber (2), a circuit (3) for supplying air and having an air outlet (22) connected to the mixing chamber (2), and a circuit (4) for supplying steam and having a steam outlet (23) connected to the mixing chamber, the circuit for supplying air (3) comprising a first air inlet line (5) equipped with a first shut-off solenoid valve (8), and at least a second air inlet line (6) equipped with a second shut-off solenoid valve (9), the first and second air inlet lines (5, 6) having a different minimum cross-sectional area (11, 12).					
51.	Liquid bag product case	US20190375626	2019-12-12	A C DISPENSING EQUIPMENT	99 %
A product case for receiving a fluid bag used in gravity based fluid dispensing systems. The product case has a floor and sidewalls that form a rectangular enclosure for the fluid bag, and a bag supporter in contact with the fluid bag. The bag supporter includes a notch formed in a top edge of one sidewall to facilitate receipt of material of the fluid bag, a slot in the one sidewall extending from a bottom of the triangular shaped notch and configured to receive and retain the material of the fluid bag, and a removable retaining wall held by support structures on a pair of the sidewalls opposing each other to divide the rectangular enclosure into a smaller enclosure. The sidewalls and the removable retaining wall constrain the fluid bag within the smaller enclosure, while the triangular shaped notch and the slot minimizes fluid bag material from covering the outlet nozzle as the fluid bag empties and provides for repeatable flow characteristics for portion control applications.					
52.	Milk container that can be associated with a coffee machine and coffee machine having such a milk container	EP3166454	2017-05-17	DE LONGHI APPLIANCES DELONGHI APPLIANCES DE LONGHI UPRICH CHASE ESSA@ELE ELE DE LONGHI APPLIANCES S R L LONGHI APPLIANCES S R L THERMOLIFT	99 %
The milk container (2) that can be associated with a coffee machine, comprises: a containment body (9) for containing milk; a mixing unit (10) for mixing milk with air and steam; an external dispenser (11) of the mixed milk; and a movement mechanism (20) for moving the external dispenser (11) configured and disposed to subject the external dispenser (11) to a combined movement for lifting it with respect to a resting surface (5) and distancing it from the containment body (9) without changing its own angular orientation.					
53.	A beverage producing machine with a jug	EP3016556	2016-05-11	PHILIPS	99 %
The beverage producing system comprises a beverage producing machine (1) and a jug (3). The beverage producing machine (1) is provided with a steam nozzle (41) and the jug (3) is provided with a steam duct (25) having a steam inlet end (25A) designed and arranged for connection to the steam nozzle (41). The steam nozzle (41) is housed in a recess (11) having an entry aperture (35), a bottom wall (39) and an upper ceiling (38). The steam nozzle (41) is arranged at the bottom wall (39) of the recess (11) and is oriented towards the upper ceiling (45). The steam inlet end (25A) of the steam duct (25) projects from the jug (3), such that a connection between the steam nozzle (41) and the steam duct (25) is established by introducing the steam inlet end (25A) in the recess (11) and by lowering the jug (3) until a fluid connection is established between the steam nozzle (41) and the steam inlet end (25A) of the steam duct (25).					
54.	Modular beverage dispensing system	EP2474254	2012-07-11	NESTLE NESTEC	99 %
A beverage preparation system (1,2,3) comprises: - a first machine (1) for preparing a first beverage (15"), the first machine having a first outlet (11) for dispensing a beverage, such as coffee, onto a beverage dispensing area (12) for positioning a cup or mug (4); and - a second machine (2) for preparing and dispensing a second beverage (25") via a second beverage outlet (21), the second machine being disconnectably connected to the first machine and separable therefrom. The first and second machines (1,2), when connected, are configurable so that the second outlet (21) is positioned or positionable adjacent to the first outlet (11) to dispense the second beverage (25") onto the beverage dispensing area (12) and into a cup or mug (4) in position for collecting the first beverage (15") from the first beverage outlet.					
55.	Milk frothing and heating system	EP0765124	1997-04-02	BOYD ASSETS FARMER BROS BOYD COFFEE	99 %
A milk frothing system is provided whereby milk is first frothed by controlled introduction of air, and then heated by circulation in a conduit (46) which passes through a hot water tank (30). Milk initially is drawn into a milk frother (44) from a cold milk supply (MJ), such milk supply preferably being replaceably housed in an onboard refrigerator. Once frothed, milk is directed through a frothed milk conduit (46), passing through an ambient pressure hot water tank (30) so as to heat the frothed milk. An espresso water conduit (60) similarly may be connected to a water supply (32), such espresso water conduit passing water through the hot water tank so as to heat the water. The heated water is passed through espresso grounds to produce espresso which is discharged through an espresso discharge nozzle (24a). The hot frothed milk is passed directly through a milk discharge nozzle (26) for use in making a beverage such as cappuccino or the like.					
56.	Cleaning device	EP1878370	2008-01-16	WMF WMF WUERTTENBERGISCHE METALLWARENFABRIK WMF - WURTTENBERGISCHE METALLWARENFABRIK	99 %
Milk supplying device for use in coffee machine, has cleaning unit with flushing area that contains hot water, steam, cleaning agent or chilled water-inlet opening and connection opening for detachable insertion of parts of supply line The device has a supply line with an inlet end that is detachably connected with a supply tank, and a cleaning facility for a part of an outer side of the line. A cleaning unit (11) is provided for the outer side, where the unit has a flushing area (12) for accommodating a part of the line to be cleaned. The area contains a hot water and/or a steam and/or a cleaning agent and/or chilled water-inlet opening (17) and a connection opening (14) for detachably inserting the parts to be cleaned, where the opening has a seal (15). Independent claims are also included for the following: (1) a coffee machine with a hot water and/or a steam and/or a cleaning agent and/or chilled water-supply (2) a method for cleaning a device for supplying milk over a supply line.					
57.	Device for dispensing milk and method for heating milk	EP2583596	2013-04-24	FRANKE KAFFEEMASCHINEN	99 %
The device has a pump (P1) to conveying milk from a container (31), a flow-heater (32), and an output (33) for discharge milk. The pump, flow-heater and output are cooperated with each other such that the milk conveyed by the pump and heated by the flow-heater is discharged from the output. A steam generator (34) is connected downstream in reference to the flow-heater and upstream in reference to the output to feed steam to the milk for an additional heating process. Independent claims are included for the following: (1) a coffee maker with a brewing unit; (2) a method for heating milk; and (3) a method for selectively generating of warm milk or warm milk froth. (From EP2583596 A1)					
58.	Device for producing milk or frothed milk	EP1532909	2005-05-25	STEINER WEGGIS	99 %
Cappuccino making system for coffee machine uses bellows-shaped sachets of milk which are placed in dispensing outlet, milk being squeezed from them via flow-resisting plate through outlet, so that foam is generated The cappuccino making system for a coffee machine uses bellows-shaped sachets (1) of milk. These are placed in a dispensing outlet and milk is squeezed from them via a flow-resisting plate (7) through an outlet (2), so that foam is generated. - An INDEPENDENT CLAIM is included for the capsules.					
59.	Device for preparation and output of milk has milk line cooled at least in first part region adjoining reservoir and rinsing line is connected to milk line here	DE19955195	2001-05-17	FRANKE TECHNOLOGY & TRADEMARK NIRO PLAN	99 %
A device for the preparation and output of milk, especially of cold or heated or heated and frothed-up milk, has a milk pipeline (11) which serves for the transport of the milk from a reservoir (10) into a milk mixing chamber (13). The transport of the milk takes place via a pump (12) connected to the milk line. A rinsing line (15) is connected to the device. The milk line can be cooled at least in a first part region adjoining the reservoir. The rinsing line is connected to the milk line in this first part region that can be cooled so that the following, especially uncooled, second part region 9112) of the milk line can be rinsed via the rinsing line.					

60.	Temperature controlled liquid dispenser	US20060037353	2006-02-23	NOR LAKE	99 %
A preferred embodiment temperature controlled liquid dispenser for dispensing a liquid in a container having a delivery tube includes a cabinet, a compartment within a cavity of the cabinet, and a valve assembly within the compartment. The cabinet has a temperature controlled cavity configured and arranged to contain the container of liquid, and the delivery tube of the container of liquid extends through the compartment within the cavity. The valve assembly within the compartment acts on the delivery tube to control flow of the liquid out of the delivery tube, wherein the container of liquid and the delivery tube proximate the valve assembly are temperature controlled within the cavity.					
61.	Container and dispenser-cutter unit combination for containing and holding detachable flexible form-fill-seal plastic pouches	US4265372	1981-05-05	WAINBERG LAWRENCE	99 %
A container and dispenser-cutter unit combination for containing and holding therein at least one or more flexible form-fill-seal plastic pouches adapted to contain commodities such as fluids, granules and the like, in which a container has a dispenser-cutter unit forming a closure lid for the opened end of the container and is adapted to contain and hold a detachable flexible form-fill-seal plastic pouch. An externally threaded spout forms an integral part of the closure lid and projects outwardly therefrom and is adapted to be engaged by a screw-cap. The cutter unit is formed of a circular knife made integral with the underside of the closure lid and projects inwardly therefrom and is located within the orbit of the spout and has its lower portion terminating into a pouch cutting edge.					
62.	Milk frother and coffee machine that incorporates such a milk frother	EP3641604	2020-04-29	DE LONGHI APPLIANCES DE LONGHI APPLIANCES S R L LONGHI APPLIANCES S R L	99 %
The milk frother (1) comprises a container that has a chamber (2) for containing the milk, a mixing chamber (3) equipped with an external dispenser (4) for dispensing the milk, a connecting channel (5) for connection between the containment chamber (2) and the mixing chamber (3), a transfer impeller (6) for transferring the milk from the containment chamber (2) to the mixing chamber, a mixing impeller (8) provided in the mixing chamber (3), and disconnectable connection means (9) for connection between the transfer impeller (6) and the mixing impeller (8).					
63.	Dispensing device for dispensing coffee and/or milk and/or milk foam, beverage making machine with a dispensing device and method for assembling a dispensing device	EP2345354	2011-07-20	JURA ELEKTROAPPARATE YURA ELEKTROAPPARATE	99 %
Delivery device for use in beverage preparing machine for delivering e.g. coffee, has housing parts plugged together such that mixing device takes predetermined position, if device is accommodated in recess in one of parts The device (10) has a housing (11) partially surrounding a liquid line group (22). A mixing device (52) is provided in a predetermined position relative to a fluid line. The housing is provided with housing parts (12, 14). The liquid line group is formed at one of the housing parts. A recess for receiving the mixing device is formed in another housing part. The housing parts are plugged together such that the mixing device takes a predetermined position relative to the fluid line, if the mixing device is accommodated in a recess in the latter housing part. An independent claim is also included for a method for assembling a delivery device.					
64.	Device for preparing milk froth that can be optionally hot or cold, or for dispensing optionally hot or cold milk	EP2897506	2015-07-29	EUGSTER FRISMAG	99 %
The invention relates to a device for preparing milk froth that can be optionally hot or cold, or for dispensing optionally hot or cold milk (1), said device comprising a milk container (4) that can be removed from the device, a milk inlet which connects the milk container (4) to a cold froth device via a milk valve section, said cold froth device being activatable by means of an air valve section; and an outlet line (15) located downstream of the cold froth device and comprising an outlet (16). The milk container (4) can be inserted into the device (1) in a guided manner and the base (4a) of said container is equipped with a milk snap-in valve (17). A complementary receiving section (17a) for the milk snap-in valve, said section being fixed in the device (1), is formed as a milk inlet directly on the milk valve section, in such a way that when the milk container (4) is inserted, the milk snap-in valve (17) can be introduced into the complementary receiving section (17a) for the snap-in valve and is locked therein.					
65.	Coffee machine with a device for storing	EP2461724	2012-06-13	WMF - WURTTENBERGISCHE METALLWARENFABRIK WMF WUERTTEMBERGISCHE METALLWARENFABRIK	99 %
The invention relates to a device (1) for storing milk (2), particularly for further use in a coffee machine (3) comprising a container (4) accommodating the milk (2). It is essential to the invention that a temperature sensing device (5) comprising at least one infrared sensor (6, 6', 6'') is provided for sensing the temperature of the milk.					
66.	Coffee machine with dispenser of a ready prepared chocolate-based beverage	EP2050368	2009-04-22	GRUPPO CIMBALI	99 %
Coffee machine, comprising at least one steam generator (10) for producing steam and an apparatus (1) for producing the coffee with associated dispensing device (4), a storage tank (33) containing a ready prepared liquid chocolate product with a density suitable for forming a conventional chocolate beverage, a heating device (34) provided with an inlet (34a) and an outlet (34b) for the product to be heated and an inlet (34c) for introducing the steam, a line (35) between said storage tank and the inlet (34a) of said heater (34), a metering pump (36) arranged along said line (35) for conveying a predetermined amount of chocolate-based product from said storage tank (33) to said heater (34) and for circulating it inside it, a line (37) for the steam, connecting said steam generator (10) to said inlet (34c) for the steam of the heater (34), an intercept valve (38) arranged along the said steam line (37) as well as a beverage dispensing device (40) connected to the outlet (34b) of the said heater (34). The machine allows the dispensing of various types of beverages, such as chocolate, coffee, milk and cappuccino.					
67.	Liquid food or beverage machine with monitoring of ingredient characteristics	EP2306872	2011-04-13	NESTEC	99 %
A container (1) comprises a cavity for storing a dispensable substance, such as a food or beverage ingredient, and a device (10) for measuring one or more characteristics of the dispensable substance and for transmitting such characteristic(s) outside the cavity. The device (10) comprises a transmitter (15,16) arranged for wireless communication of a signal representative of the measured characteristic(s) outside the cavity, in particular a sound and/or electromagnetic wave signal.					
68.	Machine for making beverages	EP3205244	2017-08-16	TCHIBO CHIBURG QBO COFFEE QBO COFFEE GMBH QUEUE BIO COFFEE GESELL SCHAFT MITT BESHRENTKEL HUFFUNGS QBO COFFEE	99 %
A drinks preparation machine includes a preparation module for preparing a brewed drink from water and from an extraction material or extract and further includes a display device. The machine is configured to permit a user to make the setting of a first drinks quantity before a start of the drinks preparation, and after the start, during the drinks preparation, to permit the adjustment of a remaining drinks quantity, which is different from zero, via the operating element. (From US2019045968 A1)					
69.	Emulsifying device to produce frothed milk and the like and relative method	EP2076159	2009-07-08	PHILIPS ELECTRONICS PHILIPS SAECO IPR SAECO IPR	99 %
The device comprises: a milk feed pipe (11); an air inlet duct (15); a pressurized steam feed pipe (17); an emulsion chamber (41), in which milk and air, drawn by means of the pressurized steam, are mixed and emulsified; along the steam feed pipe (17), a valve to place the steam feed pipe in communication with the outside and to cause emptying of the milk feed pipe.					
70.	Apparatus for preparing beverages	EP1855571	2007-11-21	CAMBRIDGE CONSULTANTS COFFEE NATION	99 %
Various forms of apparatus (1) for preparing and dispensing beverages, preferably based on coffee, can receive instructions from a customer and deliver the beverage automatically. The apparatus is preferably capable of fully automatic cleaning in a cleaning cycle in which a cleaning agent is flushed through the lines (62, 64), and the apparatus is preferably arranged to ensure that not only are the lines cleaned properly but that no cleaning agent can be dispensed. The apparatus includes a brewer assembly (78) having a chamber (81) in which freshly ground coffee can be introduced and either espresso or filter coffee can be automatically prepared by passing hot water through the chamber and removing the spent coffee grounds. The coffee may be stored as coffee beans in sealed containers (208) that can automatically be pierced to release the beans which are ground immediately before preparation of the beverage. The apparatus also includes a cup-size detector (921) for ensuring that the customer offers a cup to the apparatus that is of a size appropriate to the beverage selected.					
71.	Packages for dispensing liquid and dry food	EP2300329	2011-03-30	DAIRY MANAGEMENT GENERAL MILLS GENERAL MILLS MARKETING	99 %
Describe are food packages having features such as multiple containers in a single package and multiple pieces for a package; the packages can contain multiple food products including (for example) cereal and milk, for consumption together in a convenient manner.					

72.	Container and method for dispensing liquid from a flexible bag	EP2216287	2010-08-11	DAIRY CREST DAYRIE CROSS JUGCO ZHUKE	99 %
A container (2) for dispensing liquid such as milk, from a bag (60), comprises a clamp (12,14) to secure an ear (62) of the bag to the container rim (7), and a lid (6) with a piercing member (38) to dispense the liquid, which pierces the bag adjacent the clamp as the lid is closed.					
73.	Improvements relating to infant feeding devices	WO93/09754	1993-05-27	CADBURY MATTHEW J	99 %
An infant feeding container comprising a pre-sterilized pack having a container body (12) pre-filled under sterile conditions with milk, and a sterilized teat (20) which is maintained in sterile condition by a removable cover (16). When the container (12) is to be used it is simply a matter of removing the sterile cover followed by making a feeding hole in the teat (20), preferably by removing a nipple (26) in the top of the teat (20) by tearing it away with the fingers. The container body (12) and cover (16) are formed in a single sleeve (10) with the teat (20) treated therein and the pack includes an outer casing (30) of a rigid sheet material such as cardboard which has an end (34) adapted to be torn away to expose the cover (16).					
74.	Article packaging device	EP1659065	2006-05-24	MURAHARU SEISAKUSHO NIKURA SCALES MURA HARU MANUFACTURING MURAHARU SEISAKUSHO SAGAMIHARA MURATA MANUFACTURING 3 more...	99 %
A commodity containing apparatus including a charging member 13 attached to a base portion 10 for charging a plurality of sheets of containing bags 40, and a pivoting base portion 22 supported by the base portion 10 pivotably in a vertical face and formed with a commodity throwing opening 27 at a center portion thereof, wherein an end plate 22a of the pivoting base portion 22 opposed to the charging member 13 presses to hold a plurality of sheets of containing bags 40, and the apparatus is small-sized and can simply contain a commodity.					
75.	Device for foaming a mixture of air, steam and milk, in particular a milk foamer for a coffee machine	EP2208452	2010-07-21	BSH HAUSGERAETE	99 %
Frothing device for frothing mixture of air, steam and milk, particularly milk frother for coffee machine, has steam- or air supply channel, suction channel for milk and two outlets, where former outlet is formed for releasing milk froth The frothing device (1) has a steam- or air supply channel (2), a suction channel (3) for milk and two outlets (4,5), where the former outlet is formed for releasing milk froth. A line element (6) is provided which stands in connection with a milk suction channel with one end (7) and with a milk reservoir (9) with another free end (8) in the operating state of the frothing device. The line element is coupled with one of the two outlets with its free end, so that an air-steam mixture flows or circulates through the steam- or air supply channel, the outlets and the milk suction channel.					
76.	Milk dispenser	US4651898	1987-03-24	BELL, MICHAEL	99 %
A system for dispensing simultaneously into a single receptacle milk from different sources in a milk dispensing cabinet. The cabinet comprises two adjacent compartments for different milk containers. Each container has a flexible outlet tube for the milk contained therein. The cabinet has a milk dispenser outlet controller comprising a channel defined by walls, which channel is normally vertically oriented and through which channel the outlet tubes from each milk container pass. The tubes are positioned a similar distance with respect to one of the walls of the channel. A pinch valve, having a surface parallel to that wall, is positioned on the opposite side of the tubes with respect to that wall. Its surface is movable in parallel fashion with respect to the wall to permit simultaneous opening or closing of the flow of milk through the tubes. When one of the milk container contains reconstituted powdered skim milk, the combined milk mixture dispensed into a glass by the system according to the present invention provides an economical, palatable milk substitute which can afford considerable savings for institutions.					
77.	Method for dispensing milk-containing beverage and beverage dispenser using same	WO2016/194526	2016-12-08	FUJI ELECTRIC	99 %
A method for dispensing a milk-containing beverage, whereby a milk-containing beverage comprising milk foam and steamed milk, wherein frothy milk foam, said milk foam being prepared by mixing heated steam with a milk stock solution and air, and liquid steamed milk, said steamed milk being prepared by mixing heated steam with the milk stock solution, are dispensed into a cup C so as to arrange the milk foam as an upper layer in the cup C, is served. The method for dispensing a milk-containing beverage comprising: executing a step for dispensing the milk foam by a controlling unit 90; and then executing a step for dispensing the liquid steamed milk in such a manner as to dispense the steamed milk on the milk foam layer, thereby suppressing the formation of bubbles caused by direct collision of the steamed milk with the cup C.					
78.	Heat-stable concentrated milk product and process for its preparation	EP1618790	2006-01-25	DOUWE EGBERTS KRAFT FOODS KRAFT FOODS UNIVERSAL BRAND	99 %
The invention provides a stable concentrated dairy liquid, such as concentrated milk, with improved flavor, color, and mouthfeel, and a method of production thereof. The method utilizes specific thermal treatments to produce the stable concentrated dairy liquid to which a stabilizer and mouthfeel enhancer are added. The resulting products have a sterilization value F 0 of at least 5 that is also resistant to gelling and browning during high temperature sterilization and is also resistant to gelling and browning during storage for greater than six months. The method balances such thermal treatments with addition of stabilizer and enhancer to achieve the desired flavor/ mouthfeel and sterilization and to achieve reduced level of soluble protein in the concentrated milk prior to concentration to resist gelation and minimize browning. Moreover, such processing may be utilized in a milk that is concentrated to a factor of 2.7 fold or higher and contains at least 8.5 percent protein.					
79.	Beverage whitening composition and method	US20130224364	2013-08-29	A C DISPENSING EQUIPMENT	99 %
A beverage whitening composition for whitening coffee, tea or hot chocolate is described. The composition replaces conventional milk in a reduced volume. The target volume for reduction is 45% to 95%. The composition comprises 0.5-80% by weight of cream having from 5-42% by weight fat; 15-97% by weight of milk having from 0.1-3.25% by weight fat; serum solids, such as skim milk powder; and optionally a stabilizer. When used in the amount of the target volume, the composition has the beverage whitening ability of the selected milk to be replaced. The composition is useful for replacing skim, 1%, 2% or whole milk in dispensers containing bags, to reduce frequency of bag replacement. The composition may be steamed and used to whiten a steamed milk beverage, such as a latte.					
80.	Storage container for storing a food liquid, such as milk	EP2604153	2013-06-19	WIK	99 %
The storage container (1) has connecting links for fixing a passive cooling element. The container is designed as a detachable insert for a thermally-insulated storage container. The container is directed by two connecting links for attaching a passive cooling element. The cooling element is suspended with a hanger at the upper connecting element. (From EP2604153 A1)					
81.	Dispensing device for milk etc.	DE7809764	1978-09-07	LICH KARL 6301 BIEBERTAL	99 %
No abstract available					
82.	System and method for containing and dispensing a liquid	EP2207732	2010-07-21	AQUEDUCT INVEST INTERNATIONAL AQUEDUCT INVEST AQUEDUCT INVESTMENTS INTERNATIONAL	99 %
The present invention provides a system for use in dispensing a liquid comprising a container, for example a box (1), for housing a flexible bag (5), the flexible bag having a bag wall with an interior surface for storing the liquid. A spout (6) disposed through the bag wall for dispensing liquid from the bag. The container comprises a tear-off portion (4) positioned near the base of the container to provide an opening (7) to allow the spout project from the container, and allow the bag to be substantially pulled out of the container, so that the spout projects substantially under the base level of said container in use. In a further embodiment there is provided a refrigerated housing for the inventive container for dispensing a liquid.					
83.	Timer apparatus	WO2017/153728	2017-09-14	FIRST HAND LEARNING	99 %
A timer apparatus for a container, the apparatus comprising a timer device (10) and an attachment member (12) for removably and adjustably attaching the timer device (10) to a container containing an ingestible substance, the timer device comprising a display (14); a user interface (20) configured to receive a user input representative of a user-selected time period; and a semi-rigid housing (16) which encapsulates all of said timer device except said display (14), wherein the housing (16) comprises a water resilient material; and wherein the timer device (10) is configured to count down from said user-selected time period and display the time remaining on said display (14).					
84.	Appliance for conditioning a milk-based liquid	EP2341806	2011-07-13	NESTLE NESTEC	99 %
An appliance (1) is arranged for frothing a body of a milk-containing liquid (17) contained in a frothing tank (10). Such appliance comprises: an air incorporation device (5,8,51) that is arranged to dip or to be immersed in such body of liquid during frothing for incorporating air therinto; and a steam supply arrangement (20, 21, 22, 23, 23', 23'', 24, 25, 26, 27, 28,29) having a steam outlet (22,25) that is arranged to be immersed in such body of liquid during frothing for incorporating steam therinto. The steam outlet and the air incorporation device are arranged to be at spaced apart locations in such body of liquid during frothing so as to form steam bubbles at the steam outlet separately from air bubbles that are being formed by the air incorporation device.					
85.	Drink preparation machine for dispensing a drink comprising of coffee and/or milk and/or milk foam	EP2305082	2011-04-06	JURA ELEKTROAPPARATE YURA ELEKTROAPPARATE	99 %
The machine has a discharge unit (10) including lower and upper parts (11, 12) movable relative to a housing (5) between lowest positions (Hu1, Ho1) and highest positions (Hu2, Ho2) along adjusting paths (Su, So), respectively. A guide (15) is directly arranged at the housing to guide the lower part along one of the paths (Su). A stopper (17) is designed such that the stopper holds the upper part at one of the lowest positions (Ho1) and the lower part is movable downwards relative to the upper part if the lower part is provided in a lower section (DSu) of the former adjusting path. (From EP2305081 A1)					

86.	Flexible bags with locators	EP1718542	2006-11-08	CLEAR LAM PACKAGING SANFILIPPO, JAMES J. SKAGGS, JEANNE	99 %
A dispensing bag (90) for product including a product containment portion (92) and at least one spout receiving portion (93) in communication with the product containment portion. The bag further includes a lower sealed region (95) adjacent a bottom end of the containment portion including at least one bag alignment indicator (97), wherein the bag alignment indicator allows alignment with a valve (53) to position the spout receiving portion (93) to receive a dispenser spout.					
87.	Beverage dispensing urn with electronic display	WO02/76875	2002-10-03	FOOD EQUIPMENT TECHNOLOGIES FOOD EQUIPMENT OF TECHNOLOGIES FOOD IKUUIPPUMENTO TECHNOLOGIES	99 %
A dispensing urn assembly (10) with a hollow body (12) with an interior surface for containing beverage (14) and a manually operable faucet (16) for selectively dispensing beverage (14) from the bottom of hollow body with an electronic status display assembly (50) controlled by a microcomputer (62) in response to a temperature probe (44), a level probe (42) and a timer reset switch (46) to provide graphic displays (64,68,72), numerical displays (66,70,74) of the temperature, quantity and a time elapsed or remaining since the brewing of the beverage and a light indication displays (55,57,59) when preselected values are eliminated. The display assembly (30') is mounted to the funnel assembly (30) and the temperature probe (186), level probes (174,176,178,180 and 182), the microcomputer (62), the battery power supply (78) and all the electrical connections are protectively mounted within sealed compartments within the funnel assembly (30').					
88.	Device for issuing milk-based drinks	EP2011421	2009-01-07	SCHAERER M SCHAERER	99 %
Milk-based beverage e.g. flavored cold milk beverage, dispensing apparatus for use in restaurant, has flavoring agent supplied to mixing device and mixed with milk so as to obtain mixed beverage, which is passed via milk outlet to vessel The apparatus has a pump (8) for delivering milk from a milk container (4) to a milk outlet (20). The container is insertable in a coolable cabinet (2) arranged in a housing (1). The milk is passed from the container to a mixing device (9) via a hose line (7) in a meterable quantity, where the pump is arranged in the line. A flavoring agent e.g. powdered flavoring agent (16) is supplied in a metered manner to the mixing device via supply units (13, 14) and mixed with the milk, so as to obtain a mixed beverage. The beverage is passed via the outlet to a vessel (21) provided beneath the outlet.					
89.	Liquid container having sliding closure means	US4561560	1985-12-31	LYON C J	99 %
A liquid container comprises an open topped vessel of generally rectangular cross-section with a handle on one side wall and a lid pivoted to that side wall. The lid has projecting puncture means which pierce the top of a sealed, semi-rigid container of a beverage, such as fruit juice, when the container is located in the vessel and the lid is closed. A slider closure member is mounted in slideway structure on the top of the lid so as to be slidable along a rectangular path over two apertures to either close or open both the apertures, the path being offset relative to the handle so that the slider can be operated by a thumb of a hand by which the handle is gripped. The apertures communicate with the interior of a semi-rigid container in the vessel via passages in the puncture means when the lid is closed. One of the apertures is an outlet through which the liquid is poured and the other is a vent hole.					
90.	Automatic milk preparing device	EP2457476	2012-05-30	SHENZHEN JUDING MEDICAL EQUIPMENT MEDICAL EQUIPMENT SHUN ZANG	99 %
An automatic milk preparing device (100) is provided, which comprises a microcontroller (10) fixed in the automatic milk preparing device (100) for controlling the operation of the automatic milk preparing device (100), a powder box (20) connected with the microcontroller (10) and provided with a powder output gate (201) in the front of the powder box for controlling the powder to be added according to the signal from the microcontroller (10), a water tank (30) connected with the microcontroller (10) for controlling the water to be added according to the signal from the microcontroller (10), a stirring structure (40) fixed under the powder output gate (201), connected with the water tank (30) through a first water pipe (301) and provided with a milk outlet (401) at the lower part of the stirring structure, and a weight measuring structure (50) fixed below the stirring structure (40) and connected with the microcontroller (10) for laying a milk bottle (200), weighing water and/or milk powder in the milk bottle (200) and feeding the result of weight back to the microcontroller (10).					
91.	Multi-functional jug and beverage producing machine using same	EP2877068	2015-06-03	PHILIPS	99 %
A jug for the preparation of beverages is provided. The jug (1) comprises a body (5) with at least a first receptacle (23) and a second receptacle (25) for receiving ingredients for the preparation of beverages. A first stirrer (17) can be arranged in the first receptacle(23). In some embodiments, a second stirrer (19) can be arranged in the second receptacle (25). The jug also comprises a cover closing the body of the jug. A first fluid connection (51) is arranged for receiving a beverage from a beverage producing machine and collecting the beverage in the first receptacle(23). A second fluid connection (77) to a beverage producing machine is further provided,in fluid communication with the second receptacle (25).					
92.	Ergonomic handle with user-interface	EP2613676	2013-07-17	NESTLE NESTEC	99 %
A machine (1) for preparing a beverage comprises: a handle (10, 12) having a drive portion (12) arranged to be contacted and driven by a human hand to move the handle into a beverage preparation position; and a user-interface (20a) for initiating beverage preparation. This drive portion comprises this user- interface.					
93.	Steam automatic dispensing device for preparing hot and/or frothed drinks	EP1610658	2006-01-04	RANCILIO MACCHINE PER CAFFE RANCILIO MACCH PER CAFFE RANCILIO MACCHINE PER CAFFÈ	99 %
A steam automatic dispensing device for preparing hot and/or frothed drinks, comprising: a first duct (13) for introducing steam inside said drink; a second duct (15) for introducing air inside said drink; an electronic control unit (51) for controlling the introduction of steam and/or air through said first and second duct, said control unit being programmable to carry out a predetermined control cycle depending on the desired drink to be obtained and on the drink temperature.					
94.	Bag-in-box container for liquids	WO01/79072	2001-10-25	DR PEPPER SEVEN UP	99 %
This invention is directed to an improved bag-in-box apparatus for containing and dispensing liquids such as beverages. The interior surface of the bottom of the box (20) is preferably sloped downward toward the spout (12) of the bag (10) such that gravity helps feed the liquid toward the spout (12). In lieu of or in conjunction with slopes, the interior bottom surface of the box (120, 130, 150, 140, 160) may have terraces (34), curves (132, 134), corrugations (152), fan-like ridges (142), or beams (162). The present invention thereby reduces the amount of residual liquid as the liquid is withdrawn from the bag (10) without the need for an evacuation strip or a special slanted rack. Although the primary intended application of the present invention is in bag-in-box packages for containing and dispensing beverages, this invention may also be used to advantage in other liquid dispensing applications.					
95.	Free-flow cold beverage dispenser	WO2012/017127	2012-02-09	MOYA BOLIVAR MIGUEL	99 %
Free-flow cold beverage dispenser comprising a frame (1) housing at least one cold beverage container (5), means (2) for accessing the inside of the frame, means (4) for refrigerating the cold beverage container (5) and means (6) for dispensing cold beverages from said container (5), characterized in that it comprises bottles or cans with a safety seal and a container (7) for dispensing said bottles or cans with means (8) for pre-refrigerating said safety-sealed bottles or cans, said cold beverage dispenser means (6) comprising means for checking that the bottle or can has been dispensed by the dispenser container (7).					
96.	Improved automatic milk frothing wand	EP2433527	2012-03-28	GRUPPO CIMBALI	99 %
A vapour dispensing wand for heating and/or frothing a quantity of milk by vapour being introduced into a container (9), in which the quantity of milk is located, the wand (1) being provided with a first end (2), in the region of which it receives the vapour, and a second end (8), through which the vapour is dispensed, the second end (8) being able to be positioned inside and outside the container (9) by means of angular movements of the wand (1) about an articulation (5), to which the first end is connected, the articulation (5) being mounted on a portion (4) of a machine (3) for preparing drinks, the wand (1) further comprising a thermoelectrical sensor (11) for detecting the temperature reached by the milk in the container (9), the sensor (11) being provided with wiring in order to transmit the electrical signal relating to the temperature detected outside the wand (1). According to the invention, the first end (2) of the wand is provided with an electrical terminal block (13), and the wiring comprises a first portion (16, 17) which extends from the sensor (11) and which terminates at the electrical terminal block (13) and a second portion (18, 19) which extends from the terminal block (13).					
97.	Milk powder dispenser	EP2721972	2014-04-23	PIENA	99 %
The inventive concept relates to a milk powder dispenser (10). The milk powder dispenser (10) may include a housing (100); a milk powder container (500) that can be detached from the housing (100); a water bucket (200)located at an interior space of the housing (100) and provided to one surface of the housing (100); and a heating member (300) of which an operation is automatically stopped after heating water in the water bucket to a specific temperature, the heating member (300) being located at the interior space of the housing (100) so that it is adjacent to the water bucket (200).					
98.	Milk supply device and method for supplying milk	EP3439518	2019-02-13	WMF	99 %
The invention relates to a milk supply device for supplying milk (M) from a milk storage container (1) to a milk discharge device (4), comprising: a milk transport line (20) which is connected or can be connected to the milk storage container (1) at a first end (7) of the milk transport line ends (7, 21) and by means of which milk (M) drawn from the milk storage container (1) can be dispensed to the milk discharge device (4) via a second end (21) of the milk transport line ends (7, 21). The invention is characterized in that a three-way juncture (6, 6', 6'') is formed by means of a cleaning agent transport line (12) fluidically connected to the milk transport line (20) between the first end (7) and the second end (21), said juncture being designed to be operatable such that selectively • milk (M) can either be transported from the milk storage container (1) to the milk discharge device (4) via the juncture (6, 6', 6'') in a milk flow operating state (MFBZ) while at the same time the milk transport line (20) is separated from the cleaning agent transport line (12) in a fluid-tight manner by the juncture (6, 6', 6'') or • the cleaning agent (R) can be conducted via the juncture (6, 6', 6'') in the direction of the milk discharge device (4) and/or in the direction of an outlet (11) of the milk supply device from the cleaning agent transport line (12) fluidically connected to the juncture (6, 6', 6'') in one or more cleaning operating state(s) (RBZ1, RBZ2, RBZ3).					

99.	Apparatus and method of dispensing a liquid from a semi-bulk disposable container	EP0070699	1983-01-26	SPENER CHARLES J CHIYAARUZU JIEE SUBENA CUNNINGHAM, WILLIAM B., JR. NITCHMAN, HAROLD L. SPENCER CHARLES W	99 %
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A liquid impervious container (3) which does not have sufficient strength in itself to permit it to be internally pressurised, has at least one opening (9) and is installable within a pressurised containment vessel (11) of open construction. A fitting (27) is sealingly secured within the container opening and has a port adapted to be connected to a source (39) of pressurized gas so as to admit gas under pressure into the container and to pressurize the liquid within the container. The fitting further has a dip tube (33) which extends down into the liquid so that liquid may be dispensed from the container via the dip tube under pressure. The pressure containment vessel withstands the internal pressurization forces within the container thus permitting the use of an inexpensive, disposable container. The containment means may comprise a shroud (13), which may be in two parts, and a frame (15).

100.	Ribbed water spike	EP2417031	2012-02-15	INTERNATIONAL PACKAGING INNOVATIONS NEVERFAIL SPRINGWATER	99 %
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A ribbed spike for use with dispensing a fluid, such a water, from a bag. The spike includes a plurality of ribs or undulations on its outer surface which can improve connection strength to a bag of fluid. Systems and methods for using such a spike in the dispensing of fluid in a variety of situations are also provided.