

15-305451

Exam. Estefanía Páez.

Search history

Search wall and coffee and granulate* and liquid (Results 30)

1:

Search [SP]: [0001] the present invention relates to a single serve capsule having a capsule body, the wall and base of which delimit an interior space provided with a beverage/food substance which is dissolved and/or extracted by means of a liquid which is introduced into the single serve capsule, wherein the interior space, in particular downstream of a liquid supply, is provided with a liquid distributor which at least partially distributes the liquid supply over the cross section of the single serve capsule.[0002] single serve capsules are increasingly used nowadays in order to prepare beverages or food. for this purpose, a liquid, in particular hot water, flows through the single serve capsule and, in the process, a beverage/food substance present in the single serve capsule is extracted and/or dissolved. however, the beverage resulting therefrom is often inadequate in terms of taste.[0003] it was therefore the object of the present invention to provide a single serve capsule which does not have the disadvantages of the prior art.[0004] the object is achieved by a single serve capsule having a capsule body, the wall and base of which delimit an interior space provided with a beverage/food substance which is dissolved and/or extracted by means of a liquid which is introduced into the single serve capsule, wherein the interior space, in particular downstream of a liquid supply, is provided with a liquid distributor which at least partially distributes the liquid supply over the cross section of the single serve capsule.[0005] the present invention relates to a single serve capsule having a capsule body which has a wall, for example a cylindrical or conical wall, and a base, which wall and base jointly delimit an interior space. said interior space contains a beverage/food substance with which, for example, tea, coffee, espresso, but also a food, for example soup, can be produced by a liquid, in particular hot water, being conducted through the single serve capsule, the liquid dissolving and/or extracting the beverage/food substance. the beverage/food substance is, for example, a coffee powder or tea leaves, but also dried milk or cocoa powder.[0006] according to the invention, the interior space, in particular downstream of the liquid supply and upstream of the beverage/food substance, is now provided with a liquid distributor which distributes the liquid supply, which is generally introduced into the single serve capsule in the form of a water jet, at least partially over the cross section of the single serve capsule. alternatively, liquid is supplied to the brewing chamber upstream of the cover and is introduced into the capsule interior space in predistributed form, by preferably a plurality of openings, in particular puncture openings, which are made in the cover, in particular the cover film, preferably by a puncturing member, and then, in a second stage, is at least partially distributed over the cross section of the single serve capsule by the liquid distributor.[0007] the liquid distributor reduces the speed at which the liquid strikes against the beverage/food substance.[0008] according to a preferred embodiment, the liquid distributor is a plastics component which, for example, may be injection molded and/or thermoformed. the liquid distributor may also be manufactured as a porous component preferably by a single- or multi-bond technique.[0009] the liquid distributor preferably has a base area with recesses through which the liquid flows and is distributed in the process. the base area of the liquid distributor is arranged here at least substantially parallel to the surface of the beverage/food substance.[0010] the base area is provided with a multiplicity of recesses which, with respect to the base area, are preferably arranged at right angles to the base area or obliquely to the base area and/or preferably have different diameters and/or are preferably distributed nonuniformly on the base area and/or preferably have a constant diameter and/or recesses, the center point of which are arranged on a circular ring. in the event that the recesses are provided obliquely, said slopes can be provided at least partially at different angles in the recesses and/or the direction of the slopes may differ. the recesses can have, for example, a round, triangular, rectangular or square cross section.[0011] furthermore preferably, the base area of the liquid distributor is arranged at a distance from that surface of the beverage/food substance which faces said base area and/or from the cover. this embodiment of the present invention has the advantage that the beverage/food substance can expand without clogging the openings in the liquid distributor and/or without damaging the single serve capsule.[0012] according to a further preferred embodiment of the present invention, a side wall or one or more side wall portions which preferably runs/run substantially parallel to the wall of the capsule body and/or at a right angle to the base area of the liquid distributor is/are provided on the periphery of the base area of the liquid distributor. said side wall/side wall portions can protrude from the surface of the base area in the direction of the beverage/food substance and/or in the direction of the cover. the side wall of the liquid distributor is preferably shaped conically or cylindrically. each side wall portion protrudes at a right angle or obliquely from the surface of the base area.[0013] a form-fitting means and/or a friction-fitting means which interacts in a form-fitting and/or friction-fitting manner with the wall of the capsule body is preferably provided on the side wall or at least on a side wall portion and, particularly preferably here, also acts as a seal for the beverage substance and/or the liquid. said means is preferably provided in such a manner that it fixes the liquid distributor in a certain position, in particular remote from the beverage/food substance, during the transport of the single serve capsule. however, the pressure of the liquid which is required for producing the beverage and which flows through the liquid distributor, and/or the pressure of a puncturing means is preferably sufficient in order to move, in particular to displace and/or to rotate, the liquid distributor along the wall of the capsule body in the direction of the beverage/food substance.[0014] according to a preferred embodiment of the present invention, the liquid distributor and/or the wall of the capsule body and/or the cover has a predetermined breaking means which breaks, preferably when the liquid flows in, and therefore the liquid distributor which is initially positionally fixed in the single serve capsule becomes movable. according to this preferred embodiment of the present invention, the liquid distributor is initially fixedly connected to the cover and/or to the capsule body of the single serve capsule after production of the single serve capsule and preferably until the flow passes through the latter. however, according to the invention, a predetermined breaking means, for example, a predetermined breaking point, is provided which is damaged or destroyed in particular by the pressure of the liquid flowing into the single serve capsule and/or by the movement of a puncturing means, as a result of which the liquid distributor can be at least partially moved and can be displaced and/or rotated, for example, in the direction of the beverage/food substance.[0015] the liquid distributor is preferably provided in the form of a membrane which is deformed when the liquid flows in and/or by a puncturing means penetrating the single serve capsule. said membrane is particularly preferably arched, in particular curved, in one direction, in particular in the direction of the cover, such that the beverage/food substance has room to move in the capsule body. said membrane is preferably moved in the direction of the beverage/food substance by the pressure of the liquid and/or a puncturing means. by means of the curvature, the membrane preferably snaps here in the direction of the beverage/food substance.[0016] the liquid distributor, in particular in the radial direction, preferably has portions composed of different materials and/or different material properties and/or material thicknesses. in the event that the liquid distributor is designed in the form of a membrane, the liquid distributor preferably has a relatively elastic inner region and a relatively stiff outer region, which adjoins the outer periphery of the inner region.[0017] furthermore preferably, the side wall of the liquid distributor is deformed when the liquid flows in and/or by a puncturing means penetrating the single serve capsule. this embodiment is preferred in particular if the side wall of the liquid distributor is provided in the direction of the beverage/food substance. the side wall can then be bent, folded or compressed, for example under the pressure of the liquid or by the pressure of a puncturing means, and, as a result, can reduce the distance between the base area of the liquid distributor and the surface of the beverage/food substance.[0018] the liquid and/or a puncturing means which opens the single serve capsule, in particular the cover thereof, before or during the production of the beverage/food, preferably moves the liquid distributor at least in sections in the direction of the beverage/food substance. the movement can take place substantially linearly and/or in the form of rotation.[0019] the liquid distributor is preferably provided so as to be compressible at least in one direction of extent such that the liquid is prevented from flowing past the liquid distributor and/or in order at least substantially completely to fill the space between an optionally present cover film (Results 15)

Search PN=(US2011049081 OR WO2012055751 OR US2005158426 OR US2009211458 OR US2009126577 OR WO10085824 OR EP2284102 OR US2011064852 OR US2013055903) (Results 9)

Title: BEVERAGE PORTIONED PACKAGE FOR PREPARING A FOAMY BEVERAGE FROM SOLUBLE POWDER

Abstract: Source: US2005158426A A beverage portioned package for preparing a beverage in an extraction device of which the package is held or clamped between a water supplying part and a receiver of the device. The package has a first surface for the water to be forced to flow there through under pressure when the package is held or clamped in the device; a second surface for the flow of beverage to be forced to flow there through so to be collected in the receiver, wherein the package contains a portion of water-soluble beverage material and a portion of a filler. The filler comprising water insoluble material adapted to maintain the extraction pressure above the pressure created by the sole resistance of the first and second surfaces when the package is emptied of said soluble material.

Classifications:

International (IPC 8-9): B65B29/02

B65D85/804 (Advanced/Invention);

B65B29/00 B65D85/804 (Core/Invention)

International (IPC 1-7): B65B29/02

CPC: B65D85/8046 B65D85/8043

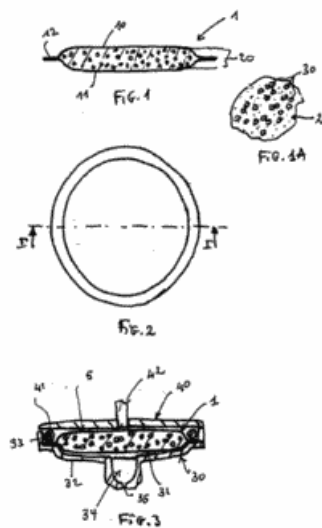
European: B65D85/804B B65D85/804B1

US: 426/77 426/77P

PatBase - US2005158426_AA

Patent Application Publication Jul. 21, 2005 Sheet 1 of 3

US 2005/0158426 A1



Title: CAPSULE FOR PREPARING AND DELIVERING A DRINK BY INJECTING A PRESSURIZED FLUID INTO THE CAPSULE

Abstract: Source: US2009211458A The invention relates to a capsule for delivering a drink by injecting a pressurized fluid comprising a body (2), an injection wall (3), a chamber (4) containing a bed of food substance to be extracted, means for retaining the internal pressure (5) in the said chamber. The improvement consists in the provision of an injection space (7) allowing a means of injecting fluid in the form of at least one jet of fluid to be introduced through the injection wall and in providing a means (6) for breaking the jet of fluid and distributing the distribution of fluid at a reduced speed across the surface of the bed of substance. These means may adopt various forms such as that of a rigid or flexible perforated wall, or a layer of discrete elements or a spongy layer. Such a capsule improves the flow of liquid extract through the pressure retaining means (5) and improves the extraction conditions.

Classifications:

International (ipc 8-9): A23F3/18 A23F5/26 A47J31/06 A47J31/44 B65D77/00 B65D77/08 B65D81/00 B65D81/34 B65D85/72 B65D85/804 (Advanced/Invention); A23F3/00 A23F5/24 A47J31/06 A47J31/44 B65D77/00 B65D81/00 B65D85/804 (Core/Invention)

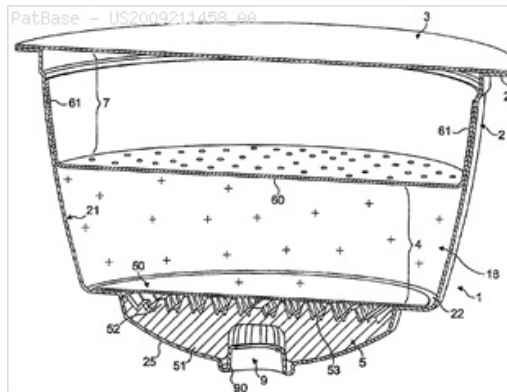
International (ipc 1-7): A47J31/40 A47J31/40 B65D85/72

B65D85/804 B65D85/804

CPC: B65D85/8043

European: A47J31/40B B65D85/804B

US: 1/1 99/300 99/300P



Family:

Publication number	Publication date	Application number	Application date
AR052640 AA	20070328	AR2005P103527	20050823
AT427900 E	20090415	AT20050786368T	20050822
AT500164 E	20110315	AT20050151919T	20050822
AU2005276627 AA	20060302	AU20050276627	20050822
AU2005276627 BB	20120322	AU20050276627	20050822
CA2579475 AA	20070220	CA20052579475	20050822
CA2579475 C	20091020	CA20052579475	20050822
CL2005002145 A1	20060922	CL20050002145	20050823
CL45477 B	20090909	CL20050002145	20050823
CN101014513 A	20070808	CN200580028159	20050822
CN104528167 A	20150422	CN201410608629	20050822
DE602005013790 D1	20090520	DE200560013790T	20050822
DE602005026733 D1	20110414	DE200560026733T	20050822
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DK1784344 T3	20090602	DK20050786368T	20050822
DK2062831 T3	20110502	DK20050151919T	20050822
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EP1784344 B1	20090408	EP20050786368	20050822
EP2062831 A2	20090527	EP20090151919	20050822
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EP2298667 A1	20110323	EP20100180561	20050822
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ES2360920 T3	20110610	ES20090151919T	20050822
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JP2008510540 T2	20080410	JP20070528717T	20050822
JP4879898 B2	20120222	JP20070528717T	20050822
MY139660 A	20091030	MY20050003937	20050823
NZ553063 A	20101126	NZ20050553063	20050822
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PT2062831 T	20110311	PT20090151919T	20050822
RU2007110638 A	20080927	RU20070110638	20050822
RU2379225 C2	20100120	RU20070110638	20050822
SI2062831 T1	20110429	SI20050031243T	20050822
TW200610716 A	20060401	TW20050128773	20050823
TWI347293 B	20110821	TW20050128773	20050823
US2009211458 AA	20090827	US20050574054	20050822
US9242791 BB	20160126	US20050574054	20050822
WO06021405 A2	20060302	WO2005EP09055	20050822
WO06021405 A3	20060720	WO2005EP09055	20050822

Priority:

CN200580028159 20050822 EP20040019930 20040823 EP20050786368 20050822
EP20090151919 20050822 EP20100180561 20050822 WO2005EP09055 20050822

Probable Assignee: NESTEC SA

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MOUFFOK ABDEL MALEK ; MANDRALIS ZENON I

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KAESER THOMAS ; BENEL'MOUFFOK ABDEL'MALEK ; ZENON IOANNIS MANDRALIS ; DENIZAR ZHAN-
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DANIEL ET AL; BORNE PATRICE DANIEL; K AND L GATES LLP

Designated states:

AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
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UZ VC VN YU ZA ZM ZW

Title: SYSTEM COMPRISING A COFFEE MACHINE AND A PORTION CAPSULE

Abstract: Source: US2009126577A The invention relates to a coffee machine for brewing a hot drink, in particular, a coffee drink, by means of a portion capsule with a capsule lid and a capsule base, comprising a pressurised water device, a portion capsule holder and a controller. The portion capsule holder is provided with two relatively-displaceable puncture means, which pierce the capsule lid and the capsule base on or after insertion of the portion capsule in the portion capsule holder, such that hot water can enter the portion capsule through the capsule lid and the drink escapes through the capsule base from the portion capsule. The controller is provided for the provision of three differing pressures for the pressurised water, for example, for brewing espresso, white coffee and filter coffee. The capsule base of the portion capsule can comprise a pre-weakened spot.

Classifications:

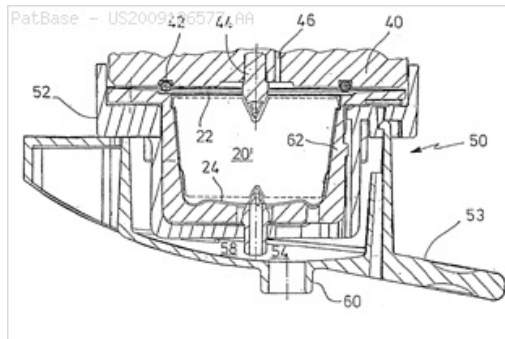
International (IPC 8-9): A47J31/00 A47J31/06 A47J31/10 A47J31/34 A47J31/40 B65D81/34 B65D85/81 B65D85/816 (Advanced/Invention); A47J31/00 A47J31/40 (Advanced/Non-invention);

A47J31/00 A47J31/06 A47J31/10 A47J31/24 A47J31/40 B65D81/34 B65D85/80 B65D85/804 (Core/Invention)

CPC: A47J31/545 A47J31/36 B65D85/8043 A47J31/0673 A47J31/34 A47J31/3695

European: A47J31/06P4B A47J31/34 A47J31/36 A47J31/36B4D2 A47J31/40B A47J31/40H A47J31/54A1 B65D85/804B

US: 99/280 99/295 99/295P 99/302R



Family:

Publication number	Publication date	Application number	Application date
AT478589 E	20100915	AT20050810585T	20051031
CA2586422 AA	20070504	CA20052586422	20051031
CA2586422 C	20140513	CA20052586422	20051031
DE102004056224 A1	20060524	DE200410056224	20041119
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EP1811880 B1	20100825	EP20050810585	20051031
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JP2008520298 T2	20080619	JP20070541728T	20051031
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KR101244500 B1	20130318	KR20077013697	20051031
KR20070100715 A	20071011	KR20077013697	20051031
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RU2007122756 A	20081227	RU20070122756	20051031
RU2380999 C2	20100210	RU20070122756	20051031
US2009126577 AA	20090521	US20050719848	20051031
US8307754 BB	20121113	US20050719848	20051031
WO06053635 A1	20060526	WO2005EP11666	20051031

Priority:

DE200410056224 20041119 DE200420021229U 20041119 WO2005EP11666 20051031

Probable Assignee: TCHIBO GMBH

Assignee(s): (std): CHIBO GMBKH ; MAUSS SEBASTIAN ; MUND KLAUS DIETER ; SCHWEMINSKI HARTMUT ; TCHIBO GMBH ; TERNITE RUEDIGER

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Inventor(s): SEBASTIAN MAUSS ; RUEDIGER TERNITE ; HARTMUT SCHWEMINSKI ; KLAUS DIETER MUND

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; UEXKUELL AND STOLBERG; HOVEY WILLIAMS LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: CLOSURE WITH BUILT-IN STORING COMPARTMENT

Abstract: Source: US2011049081A The present invention is a closure (1) suitable for closing a container containing a first product, said closure being an assembly of less than four independent pieces, and having external side walls (3), a top wall (4), and an internal skirt (5) extending downwardly inside the side walls (3) from the top wall (4), characterized in that: (i) the internal skirt (5) comprises an opening disposed in the top wall (4) of the closure, said opening being closed by a membrane, so as to define at least one compartment to store a second product separately from said first product, and (ii) the membrane (11) closing the top wall opening is made of an oxygen-barrier material, so that said compartment (6) is free of oxygen contamination from ambient air when said closure (1) is screwed onto the neck (2) of said container.

Classifications:

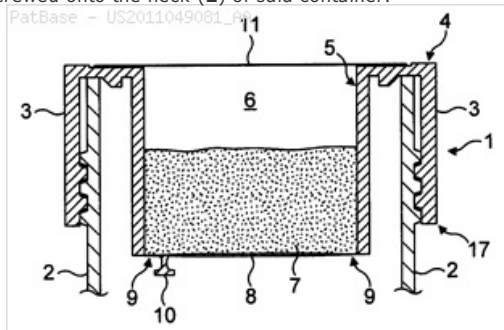
International (IPC 8-9): A23L1/00 B65B1/04 B65B7/28 B65D25/08 B65D43/00 B65D51/00 B65D51/28 B65D81/32 (Advanced/Invention); B65B7/28 B65D25/08 B65D51/28 B65D81/32 (Advanced/Non-invention); B65D51/24 (Core/Invention); B65D (Subclass/Invention)

International (IPC 1-7): B65D51/24 B65D51/28

CPC: B65D51/28

European: B65D51/28

US: 215/227 53/467 53/467S

**Family:**

Publication number	Publication date	Application number	Application date
AR070481 AA	20100407	AR2009P100651	20090225
AU2009218560 AA	20090903	AU20090218560	20090220
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EP2254807 A1	20101201	EP20090714227	20090220
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WO09106489 A1	20090903	WO2009EP52069	20090220
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Priority:

EP20080101974 20080226 EP20090714227 20090220 WO2009EP52069 20090220

Probable Assignee: NESTEC SA

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Inventor(s): (std): BOURGUIGNON MICHAEL A L ; BOURGUIGNON MICHEL A L ; BOURGUIGNON MICHEL

Inventor(s): BOURGUIGNON MICHEL AL ; MICHEL A L BOURGUIGNON ; MICHEL AL BOURGUIGNON ; MICHEL BOURGUIGNON

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; HARNECKER; ALICIA LLOREDA RICAURTE; THOMAS ALAIN; ODET SAMUEL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PORTION CAPSULE

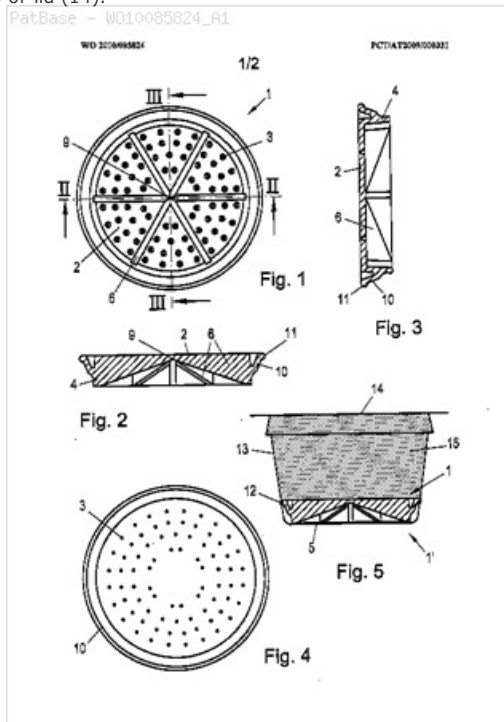
Abstract: Portion capsule (1') substance (15) in powder form extractable by way of liquid to produce a beverage, whereby a filter device (1) with a number of openings (3) is arranged between the capsule base (5) and the substance (15) and/or the capsule lid (14) and the substance, the filter device (1) having a filter surface (2) which is arranged at a distance from the capsule base (5) or lid (14) by an outer, skirt-shaped frame section (4), and whereby the filter device (1) has at least one brace (6), extending from the frame section (4) to an essentially central area of the filter surface (2), which beyond the frame section (4) is arranged at a distance from the capsule base (5) or lid (14).

Classifications:

International (IPC 8-9): B65D85/804 (Advanced/Invention);
B65D85/804 (Core/Invention)

CPC: B65D85/8043

European: B65D85/804B



Family:

Publication number	Publication date	Application number	Application date
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Priority:

AT20090000155 20090129 AT20100000097U 20100223 WO2009AT00331 20090826
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Probable Assignee: K FEE SYSTEM GMBH

Assignee(s): (std): EDER HANS CHRISTIAN ; HERRMANN ROLAND ; K FEE SYSTEM GMBH ; SYSTEM GMBH K

Assignee(s): K SYSTEM GMBH

Inventor(s): (std): EDER HANS CHRISTIAN ; HERRMANN ROLAND

Inventor(s): ROLAND HERRMANN ; HANS CHRISTIAN EDER

Agent(s): KUTZENBERGER WOLFF AND PARTNER PATENTANWALTSPARTNERSCHAFT MBB; WOLFF FELIX; UNGRIA JAVIER; SONN AND PARTNER

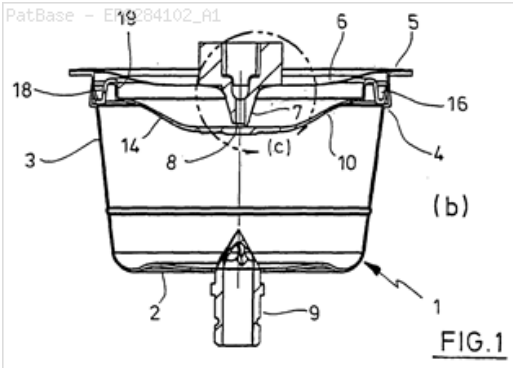
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PORTIONSKAPSEL SOWIE SYSTEM MIT EINER BRUEHMASCHINE UND EINER PORTIONSKAPSEL SINGLE PORTION CARTRIDGE AND SYSTEM WITH A BREWING MACHINE AND A SINGLE PORTION CARTRIDGE

Abstract: The capsule (1) has a capsule lid (6) and a capsule base (2) closed on all sides in a delivery condition. A particulate includes a beverage substance extracted by water. A distribution device (10) is arranged between the capsule lid and the beverage substance and provided with a water passage opening. The distribution device is deformed by force on a central region in a brewing condition. Distance of the central region of the distribution device is greater than distance of the capsule lid in the delivery condition. An independent claim is also included for a beverage manufacturing system comprising a brewing machine and a portion capsule.

Classifications:

International (IPC 8-9): A47J31/36 B65D85/804 (Advanced/Invention);
A47J31/36 (Advanced/Non-invention)
CPC: B65D85/8043 A47J31/3628
European: A47J31/36A4B B65D85/804B



Family:

Publication number	Publication date	Application number	Application date
DE502009007585 D1	20130912	DE200950007585T	20090810
DK2284102 T3	20131021	DK20090010303T	20090810
EP2284102 A1	20110216	EP20090010303	20090810
EP2284102 B1	20130717	EP20090010303	20090810
ES2427735 T3	20131031	ES20090010303T	20090810
PT2284102 T	20131022	PT20090010303T	20090810

Priority:

EP20090010303 20090810

Probable Assignee: TCHIBO GMBH

Assignee(s): (std): TCHIBO GMBH

Inventor(s): (std): ALBERS MARTIN ; HEUKAMP WOLFGANG ; MAUSS SEBASTIAN ; TERNITE RUEDIGER ; SCHULTE WALTER ; ZANDER WOLFGANG

Inventor(s): SEBASTIAN MAUSS ; WALTER SCHULTE ; WOLFGANG HEUKAMP ; WOLFGANG ZANDER ; RUEDIGER TERNITE ; MARTIN ALBERS

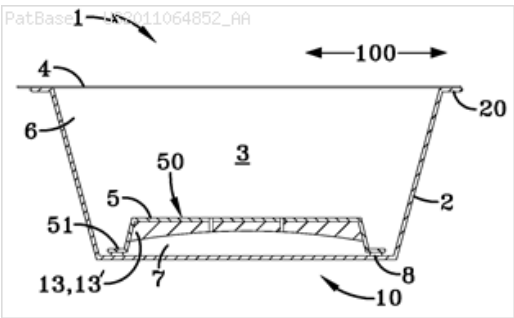
Agent(s): UEXKUELL AND STOLBERG; CURELL MIREIA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PORTION CAPSULE AND USE OF A PORTION CAPSULE

Abstract: Source: US2011064852A Proposed is a portion capsule for producing a beverage, having a substantially frustoconical or cylindrical base element which has a cavity, and having a membrane which closes off the cavity, with a filter element being arranged within the cavity, which filter element divides the cavity into a first region for holding beverage raw material and a second region for holding a beverage extract, with the filter element being fastened to the base element by at least one fastening means which is arranged substantially in the region of a side, which is situated opposite the membrane, of the base element.

Classifications:
International (IPC 8-9): A23L2/52 A47J31/06 A47J31/24 B65B29/02 B65D85/804 B65D85/808 (Advanced/Invention)
CPC: B65D85/8043
European: B65D85/804B
US: 426/431 426/431S 426/78 426/78P



Family:

Publication number	Publication date	Application number	Application date
AU2010294809 AA	20110324	AU20100294809	20100917
CA2714886 AA	20110317	CA20102714886	20100917
CN102741136 A	20121017	CN201080052062	20100917
DE102009041633 A1	20110601	DE200910041633	20090917
EP2477911 A1	20120725	EP20100763600	20100917
US2011064852 AA	20110317	US20100885017	20100917
WO11032718 A1	20110324	WO2010EP05719	20100917

Priority:
CA20102714886 20100917 DE200910041633 20090917 US20090243414P 20090917
US20100885017 20100917 WO2010EP05719 20100917

Probable Assignee: K FEE SYSTEM GMBH

Assignee(s): (std): KRUEGER GMBH AND CO KG ; MANN TORSTEN
Assignee(s): K FEE SYSTEM GMBH ; KRUGER GMBH AND CO KG
Inventor(s): (std): MANN TORSTEN ; TORSTEN MANN

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; FETHERSTONHAUGH AND CO; LOOCK JAN PIETER; WOLF FELIX ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CAPSULE FOR AN EXTRACTION MATERIAL, METHOD FOR PRODUCING THE CAPSULE, AND DEVICE FOR BREWING COFFEE

Abstract: Source: US2013055903A A coffee capsule is provided, the outer dimensions of which are matched to the size of a filtered-coffee capsule, but which has a separating element that separates an empty area from an extraction-material area. Furthermore, at least one liquid channel is provided, which passes through the empty area for example. The liquid channel or liquid channels and the extraction-material area are designed in such a way that water introduced into the capsule at an injection location or a beverage produced in the capsule substantially does not enter the empty area.

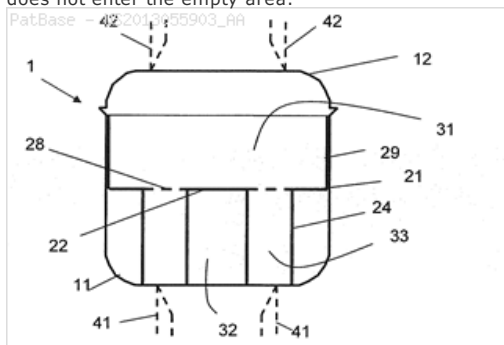
Classifications:

International (IPC 8-9): A47J31/00 A47J31/06 A47J31/18 A47J31/24 A47J31/34 A47J31/36 A47J31/40 A47J31/44 B65D43/02 B65D85/00 B65D85/804 (Advanced/Invention); A47J31/36 (Advanced/Non-invention)

CPC: A47J31/3623 A47J31/369 B65D85/8043 A47J31/0689 B65D85/804 A47J31/06 A47J31/34 A47J31/407 B65D43/02

European: B65D85/804B

US: 1/1 426/112 99/295



Family:

Publication number	Publication date	Application number	Application date
AU2011250625 AA	20111110	AU20110250625	20110502
AU2011250625 BB	20160728	AU20110250625	20110502
BR112012028095 A2	20160802	BR20121128095	20110502
CA2797039 AA	20121022	CA20112797039	20110502
CN102958816 A	20130306	CN201180022589	20110502
CN102958816 B	20160803	CN201180022589	20110502
CN105996764 A	20161012	CN201610485936	20110502
DE502011009168 D1	20160504	DE201150009168T	20110502
DK2566784 T3	20160627	DK20110720282T	20110502
EP2384996 A1	20111109	EP20100405093	20100504
EP2566784 A1	20130313	EP20110720282	20110502
EP2566784 B1	20160323	EP20110720282	20110502
ES2575582 T3	20160629	ES20110720282T	20110502
HU028035 T2	20161128	HU20110720282T	20110502
IN03223KN2012 A	20140221	IN2012KN03223	20121023
JP2013525041 T2	20130620	JP20130508344T	20110502
JP5838198 B2	20160106	JP20130508344T	20110502
KR20130112696 A	20131014	KR20127031611	20110502
PL2566784 T3	20160930	PL20110720282T	20110502
RU2012151436 A	20140610	RU20120151436	20110502
US2013055903 AA	20130307	US20110695213	20110502
US2017035237 AA	20170209	US20160203064	20160706
US9387978 BB	20160712	US20110695213	20110502
WO11137550 A1	20111110	WO2011CH00100	20110502

Priority:

CN201180022589 20110502 EP20100405093 20100504 EP20110720282 20110502
WO2011CH00100 20110502 US20120695213 20121113

Probable Assignee: QBO COFFEE GMBH

Assignee(s): (std): DEUBER LOUIS ; LUNA TECHNOLOGY SYSTEMS LTS GMBH ; QBO COFFEE GMBH

Assignee(s): LUNA TECHNOLOGY SYSTEMS LTS GMBH/C/O INTERVISION AGSCHUPPISSTRASSE 6CH-9016ST. GALLECH

Inventor(s): (std): DEUBER LOUIS

Inventor(s): DEUBER LOUISCH ; LOUIS DEUBER

Agent(s): GRIFFITH HACK; FREEDMAN AND ASSOCIATES; SHAPIRO COHEN LLP; OSTERTAG AND PARTNER PATENTANWALTE MBB; FREI PATENT ATTORNEYS; DE ELZABURU ALBERTO; FUKAMI PATENT OFFICE PC; RANKIN HILL AND CLARK LLP; FREI PATENTANWALTSBUERO AG

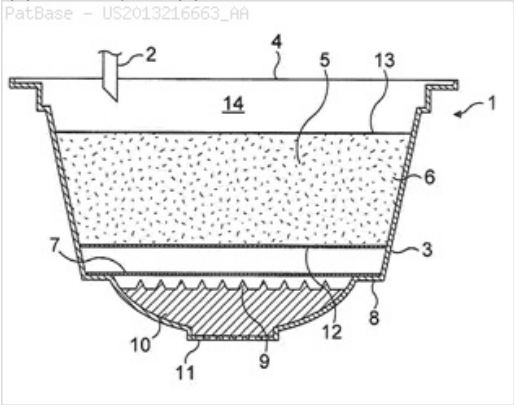
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Title: CAPSULE FOR PREPARATION OF A BEVERAGE

Abstract: Source: US2013216663A The present invention is directed to a capsule (1) for delivering a drink by injecting a pressurized fluid into the capsule comprising: a hollow body and an injection wall (4) which is impermeable to liquids and to gas and which is attached to the body and adapted to be punctured by an injection means (2) foreign to the capsule, a chamber (5) containing a bed of at least one food substance to be extracted, means (7, 9, 10) for retaining the internal pressure in the said chamber, said means comprising a pierceable membrane (7), characterized in that said capsule (1) further comprises a secondary means (12) for maintaining the bed of substance at a distance d from said pierceable membrane (7), said distance d being at least 1 mm, preferably at least 2 mm, more preferably at least 3 mm, and in that the pressure retaining means comprise: the pierceable membrane (7), raised elements (9) which open the said membrane (7) in order to create punctures and allow the liquid extract to pass through the punctures; the punctures in the membrane (7) being obtained under the effect of the rise in pressure in the chamber (5) of the capsule (1).

Classifications:

International (IPC 8-9): A47J31/06 A47J31/34 B65D B65D85/00 B65D85/804 (Advanced/Invention); B65D (Subclass/Invention)
CPC: B65D85/8043
European: B65D85/804B
US: 426/115



Family:

Publication number	Publication date	Application number	Application date
AR083552 AA	20130306	AR2011P103942	20111025
AU2011322777 AA	20120503	AU20110322777	20111020
BR112013009853 A2	20160726	BR20131109853	20111020
CA2814314 AA	20130410	CA20112814314	20111020
CN103189284 A	20130703	CN201180051556	20111020
EP2444339 A1	20120425	EP20100188699	20101025
EP2632823 A2	20130904	EP20110770804	20111020
IL225420 A0	20130627	IL20110225420	20111020
IN02615DN2013 A	20141114	IN2013DN02615	20130322
JP2013540026 T2	20131031	JP20130534324T	20111020
KR20130140038 A	20131223	KR20137013375	20111020
MX2013004369 A1	20130514	MX20130004369	20111020
RU2013124038 A	20141210	RU20130124038	20111020
SG189069 A1	20130531	SG20130021738	20111020
US2013216663 AA	20130822	US20110881611	20111020
WO12055751 A2	20120503	WO2011EP68321	20111020
WO12055751 A3	20120802	WO2011EP68321	20111020
ZA201303805 A	20141126	ZA20130003805	20130524

Priority:

EP20100188699 20101025 EP20110770804 20111020 WO2011EP68321 20111020

Probable Assignee: NESTEC SA

Assignee(s): (std): DOGAN NIHAN ; GOUX SAMUEL ; NESTEC SA ; NESTEK SA

Assignee(s): NESTEC S A

Inventor(s): (std): DOGAN NIHAN ; GOUX SAMUEL

Inventor(s): NIHAN DOGAN ; SAMUEL GOUX

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; NESTEC S A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW