

Search query (2): [SP]: [0001] this application claims a priority benefit under 35 u.s.c. 119 of u.s. patent application ser. no. 62/131,732, filed mar. 11, 2015, the entirety of which is hereby incorporated by reference herein. field [0002] the present disclosure relates to a sealed cartridge with a soluble beverage component and an insoluble beverage component for producing a beverage when fluid is introduced into the cartridge. the cartridge can be configured for use with single-serve beverage machines. description of certain related art [0003] single-serve beverage machines are devices that are designed to produce a single serving, or sometimes a single cup, of a desired beverage. in comparison to other types of beverage machines (such as drip coffee makers having a multi-cup carafe), single-serve beverage machines can enhance convenience by reducing the time to prepare the beverage. furthermore, single-serve beverage machines can reduce waste by decreasing the likelihood of producing excess amounts of the beverage, which may go unused and be subsequently discarded.[0004] some single-serve beverage machines use a cartridge (also called a pod or capsule) containing substantially non-soluble coffee grounds to produce the beverage. generally, such cartridges are received in the single-serve beverage machine, are used to produce the single serving of the beverage, and are subsequently manually removed from the machine and discarded. summary of the disclosure [0005] in certain applications, the size and/or volume of a cartridge for a single-serve beverage machine may be limited. as a result, the cartridge may not provide enough room to accommodate the recommended quantity of non-soluble beverage component to dispense a beverage of a certain volume from a beverage machine. accordingly, in some embodiments, a cartridge is provided with a soluble beverage component in conjunction with a non-soluble beverage component. the soluble beverage component can provide additional flavor per unit volume within the cartridge than a cartridge with only a non-soluble component. in this manner, the intended flavor profile can be achieved for a greater range of beverage volumes formed from a fixed cartridge volume while still providing the flavor advantages and benefits of the non-soluble component. in certain embodiments, the soluble beverage component and the non-soluble beverage component are soluble and non-soluble components of the same or similar type of beverage, such as coffee. thus, in an embodiment where the beverage is coffee, the soluble beverage component can comprise instant coffee and the non-soluble component can comprise roasted ground coffee. in an embodiment where the beverage is tea, the soluble beverage component can comprise instant tea and the non-soluble component can comprise tea leaves. a combination of a soluble beverage component and a non-soluble beverage component can enhance the desired body and flavor profile for a cartridge over a wider range of beverage volumes provided by a beverage machine.[0006] in certain configurations, the cartridge can include a beverage component composed of a predetermined ratio of soluble beverage component and non-soluble beverage component. similarly, the soluble beverage component and non-soluble beverage component can be provided in one or more layers within the cartridge or thoroughly mixed prior to placement within the cartridge. in some configurations, the soluble beverage component comprises dry coffee extract and the non-soluble beverage component comprises roasted ground coffee. in certain configurations, the soluble beverage component can include microground coffee and dry coffee extract. in certain embodiments, the cartridge can include a lid and a bottom wall that can be configured to be pierced to allow the flow of liquid therethrough. in certain embodiments, the cartridge can include a filter element to retain the non-soluble beverage component within the cartridge.[0007] in some embodiments, a method of assembling a cartridge for producing a beverage is described. in some arrangements, a method for filling a cartridge with a predetermined ratio of soluble beverage component and non-soluble beverage component is provided. in some arrangements, the soluble beverage component and the non-soluble beverage component are introduced into the cartridge via separate feed mechanisms and/or discrete steps. in some arrangements, the soluble beverage component and the non-soluble beverage component are fed into the cartridge such that the cartridge has a first layer of soluble beverage component and a second layer of non-soluble beverage component. in some arrangements, the cartridge has a first layer of non-soluble beverage component and a second layer of soluble beverage component. in some arrangements, the cartridge has a first layer of soluble beverage component, a second layer of non-soluble beverage component, and a third layer of soluble beverage component. in some arrangements, a predetermined ratio of the soluble beverage component and non-soluble beverage component is first mixed before filling the cartridge. brief description of the figures [0008] various embodiments are depicted in the accompanying drawings for illustrative purposes, and should in no way be interpreted as limiting the scope of the embodiments. furthermore, various features of different disclosed embodiments can be combined to form additional embodiments, which are part of this disclosure.[0009] fig. 1a illustrates a cross-sectional view of an embodiment of a cartridge with a beverage component including a first layer of non-soluble beverage component and a second layer of soluble beverage component.[0010] fig. 1b illustrates a cross-sectional view of an embodiment of a cartridge of fig. 1a with a beverage component including a first layer of soluble beverage component and a second layer of non-soluble beverage component.[0011] fig. 1c illustrates a cross-sectional view of an embodiment of a cartridge of fig. 1a with a beverage component including a first layer of non-soluble beverage component, a second layer of soluble beverage component, and a third layer of non-soluble beverage component.[0012] fig. 1d illustrates a cross-sectional view of an embodiment of a cartridge of fig. 1a with a beverage component including a combination of soluble beverage component and non-soluble beverage component.[0013] fig. 1e illustrates a cross-sectional view of an alternative embodiment of a cartridge with the beverage component illustrated in fig. 1a including a combination of non-soluble beverage component and soluble beverage component.[0014] fig. 2a illustrates a schematic representation of an embodiment of a method for assembling the beverage cartridge illustrated in fig. 1a.[0015] fig. 2b illustrates a schematic representation of an embodiment of a method for assembling the beverage cartridge illustrated in fig. 1b.[0016] fig. 2c illustrates a schematic representation of an embodiment of a method for assembling the beverage cartridge illustrated in fig. 1c.[0017] fig. 2d illustrates a schematic representation of an embodiment of a method for assembling the beverage cartridge illustrated in fig. 1d.[0018] fig. 3a illustrates a flow chart of a method for assembling a beverage cartridge as illustrated in fig. 2a.[0019] fig. 3b illustrates a flow chart of a method for assembling a beverage cartridge as illustrated in fig. 2b. detailed description [0020] the following discussion is presented to enable a person skilled in the art to make and use one or more of the described embodiments. the general principles described herein may be applied to embodiments and applications other than those detailed below without departing from the spirit and scope of the disclosure. indeed, the described embodiments are not intended to be limited to the particular embodiments shown, but are to be accorded the widest scope consistent with the principles and features disclosed or suggested herein. certain cartridge structures [0021] figs. 1a-d illustrate cross-sectional views of some embodiments of a cartridge 100. the specific structure of the cartridge 100 described below is not intended to be limiting but provides one example carrier for the beverage component 300 described below.[0022] as described herein, the size and/or volume of a cartridge for a beverage machine may be limited. as a result, the cartridge may not provide enough room to accommodate the recommended quantity of non-soluble beverage component to dispense a beverage of a certain volume from a beverage machine. accordingly, in certain embodiments describe below, the cartridge 100 can be provided with a soluble beverage component in combination with a non-soluble beverage component. as described herein, the soluble beverage component and the non-soluble beverage component can be soluble and non-soluble components of the same type of beverage, such as coffee. thus, in an embodiment where the beverage is coffee, the soluble beverage component can comprise instant coffee and the non-soluble component can comprise roasted ground coffee. a combination of a soluble beverage component and a non-soluble beverage component can enhance the desired body and flavor profile for a cartridge over a wider range of beverage volumes provided by a beverage machine[0023] referring to figs. 1a-d, a cartridge 100 can include a cup 110, a lid 150 and a filter element 140. in some embodiments, the cartridge has no filter. in some embodiments, the cup 110 can have a generally hollow structure having a bottom wall 170, a protruding lip 180 and a sidewall 160. in othe

Results: 9

1) Family number: 68582157 (WO18087041A1)

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Title: APPARATUS FOR JOINING PRODUCT CAPSULES AND CAPSULE LIDS TO EACH OTHER, AND CAPSULE UNIT CONSISTING OF A PRODUCT CAPSULE AND A CAPSULE LID

Abstract: In known hot beverage preparation machines, hot water is used to brew the beverage from a product powder that can be purchased in a capsule. However, these capsules are expensive and generate a considerable amount of waste. Furthermore, there is lack of flexibility insofar as only products provided by specific manufacturers can be brewed in said machines. Hence, the invention relates to an apparatus for sealing product capsules and to an associated capsule system which provide a user-friendly alternative to the known capsules and in particular reduce the amount of waste because reusable capsules are used. For this purpose, a product capsule and a capsule lid are retained between a ram and a supporting bolt within a multi-part housing, and the housing parts are pressed together against the force of a housing spring in such a way that the product capsule and the capsule lid are sealed together to form a capsule unit.

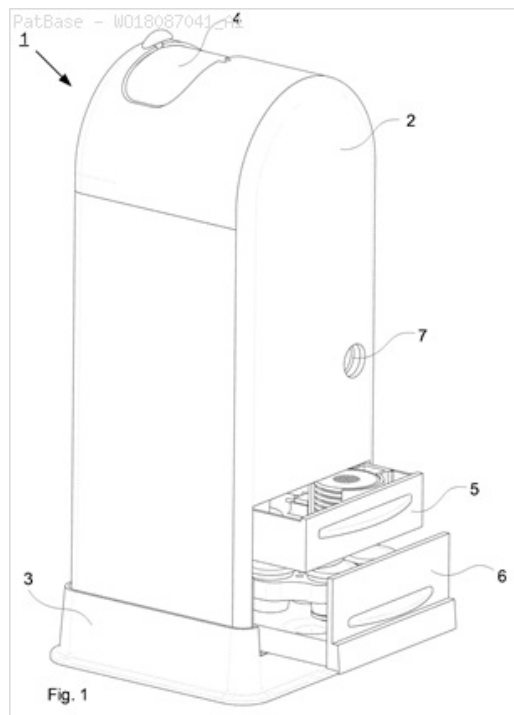
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B65B59/04 B65B7/16 B65B7/28 B65D85/804 (Advanced/Invention)

CPC: B65B29/022 B65B7/2807 B65B7/2842 B65B43/50 B65B59/04

B65D85/8043



Family:

Publication number	Publication date	Application number	Application date
DE102016121332 B3	20180215	DE201610121332	20161108
WO18087041 A1	20180517	WO2017EP78332	20171106

Priority:

DE201610121332 20161108

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2) Family number: 57428186 (US2014272018A)

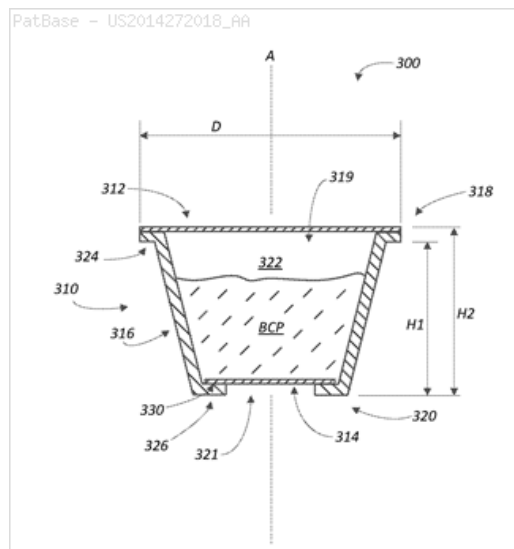
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Title: STRETCHABLE BEVERAGE CARTRIDGES AND METHODS

Abstract: Present embodiments generally relate to a single-serve beverage cartridge for use with a single-serve coffee brewer. In some embodiments, the cartridge has a body portion, a first filter element, and a second filter element. The cartridge can include a single serving of coffee or another beverage component or precursor. The cartridge can be formed of a biodegradable and/or compostable material. In some embodiments, at least one of the filters is configured to stretch when pressed by a tamping head, thereby allowing the tamping head to be received in the cartridge to facilitate tamping of the beverage component or precursor.

Classifications:

International (IPC 8-9): A23F5/24 A23F5/26 A47J31/06 A47J31/10 A47J31/36 A47J31/40 A47J31/44 B65B17/00 B65B29/02 B65D65/46 B65D77/00 B65D85/50 B65D85/804 (Advanced/Invention)
CPC: B65D85/8043 B65D65/466 Y02W90/13 Y02W90/14
US: 426/115 426/425



Family:

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Priority:

US20130786072P 20130314 US20140191225 20140226 WO2014US19135 20140227
US20170726210 20171005

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RECHTSANWALTE PARTG MBB ; KNOBBE MARTENS OLSON AND BEAR LLP ; ALTMAN DANIEL E

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
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3) Family number: 32092219 (US2008216666A)

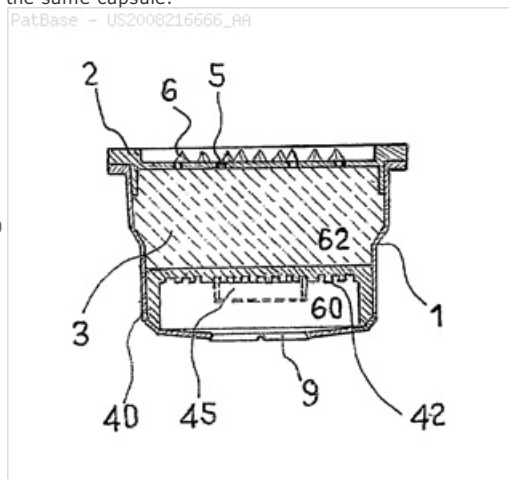
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Title: DISPOSABLE CAPSULE FOR DRINKS

Abstract: A capsule (1) for the preparation of beverages within dispensing machines, has a sealing film (4) which is perforated at the time of the use when the pressurized infusion water is supplied to the capsule and deforms the film (4), bringing it into contact with underlying perforation means (6) fixed to the same capsule.

Classifications:

International (IPC 8-9): A23F3/16 A23F5/24 A23L1/28 A23L2/00
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B67D99/00 (Advanced/Invention);
A23F3/00 A23F5/24 A23L2/00 A47J31/00 A47J31/06 A47J31/40
B65D25/04 B65D81/00 B65D85/804 (Core/Invention);
B65D81/00 (Core/Non-invention);
A23F A47J B65D (Subclass/Invention)
International (IPC 1-7): A47J31/00 A47J31/06 A47J31/40 B65D81/00
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CPC: A47J31/0673 B65D85/8043
European: A47J31/06E A47J31/06F A47J31/06P4B A47J31/40B
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US: 222/1 222/1S 426/431 426/431S 426/433 426/433S 426/435
426/435S 426/77 426/77P 99/295 99/295P 99/295S 99/300 99/300S
99/323



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US20070673465 20070209

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4) Family number: 47634338 (US2010288131A)

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Title: MINERAL COMPOSITE BEVERAGE BREWING CUP AND CARTRIDGE

Abstract: A beverage filter cartridge having a cup, a filter, a lid and at least one beverage ingredient is provided where the cup and lid are sealed together to form an interior chamber which is separated into a first and second compartments by the filter, which is preferably basket or cone shaped, and a beverage ingredient such as coffee is contained inside first compartment, and at least one of the cup, lid and filter contains calcium carbonate in an amount effective to either improve the ability of beverage makers to pierce the cup or to provide a means for the cartridge to absorb CO2 emitted by the ingredient thereby reducing the hold time to packing and reducing the number of defective cartridges.

Classifications:

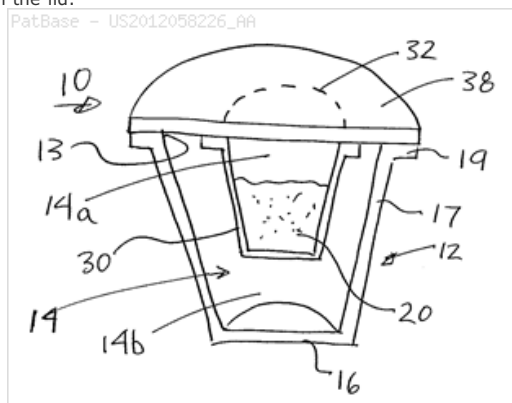
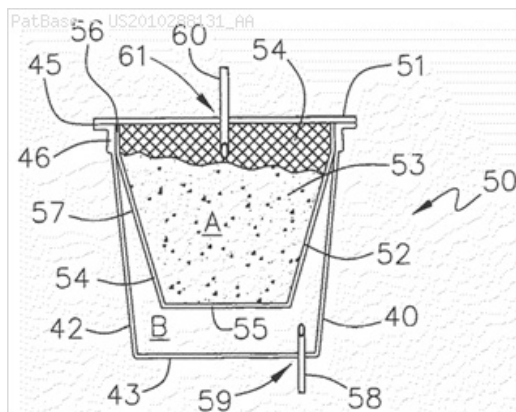
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A47J31/44 (Advanced/Invention)

CPC: B65D85/8043 A47J31/0673

European: A47J31/06P4B B65D85/804B

US: 426/77 99/290 99/290S 99/295 99/295P



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US20100874459 20100902 EP20110755526 20110901 EP20160169045 20110901
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6) Family number: 63551528 (US2016264348A)

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Title: BEVERAGE CARTRIDGES AND METHODS

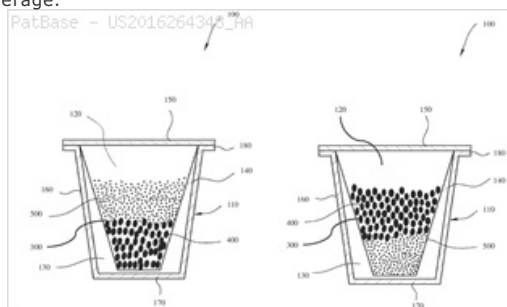
Abstract: Present embodiments generally related to a single-serve beverage cartridge for use with a beverage machine. In some embodiments, the cartridge includes a cup, a lid, and a beverage component disposed in the cup. The beverage component can include a soluble beverage component and a non-soluble beverage component. In certain instances, the beverage component in the beverage cartridge can include a first layer of non-soluble beverage component and a second layer of soluble beverage component. In other instances, the beverage component can include a first layer of soluble beverage component and a second layer of non-soluble beverage component. In other instances, the beverage component can include a first layer of non-soluble beverage component, a second layer of soluble beverage component, and a third layer of non-soluble beverage component. In other instances, the beverage component can include a mixture of soluble beverage component and non-soluble beverage component. The soluble and non-soluble beverage components can be the soluble and non-soluble components of a same or similar type of beverage.

Classifications:

International (IPC 8-9): A23F5/00 A47J31/02 A47J31/06 A47J31/36 A47J31/40 B65B1/04 B65B29/02 B65B31/00 B65B7/16 B65D81/34 B65D85/72 B65D85/804 B65D85/808 B65D85/816 (Advanced/Invention)

CPC: B65D85/8043 A23F5/00 B65B29/022 B65B31/00 B65B2220/14 B65B7/16

US: 426/115



Family:

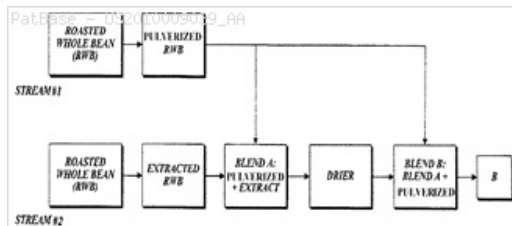
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US20150131732P 20150311 US20160065643 20160309 WO2016US21449 20160309

Assignee(s): (std):	STARBUCKS CORP ; STARBUCKS CORP D B A STARBUCKS COFFEE CO ; STARBUCKS CORP DBA STARBUCKS COFFEE CO
Assignee(s):	BROCKMAN JOHN ; CAMERA PAUL N ; STARBUCKS D B A STARBUCKS COFFEE CO CORP ; STARBUCKS DBA STARBUCKS COFFEE CO CORP
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Inventor(s):	CAMERA N ; PAUL CAMERA N
Agent(s):	MINTER ELLISON; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; JUAN CARLOS CUESTA QUINTERO; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; MORITA HIROSHI; CHRISTENSEN MICHAEL R
Designated states:	AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TH TJ TM TN TR TT TG UA UG US UZ VC VN ZA ZM ZW

Abstract: The present embodiments generally relate to beverages with enhanced flavors and aromas and method of making same. Some embodiments of the present disclosure are directed to soluble coffee and methods of making soluble coffee with improvements in such qualities as taste and aroma.

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A23F5/40 A23F5/46 (Advanced/Non-invention);
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A23F5/24 (Core/Non-invention);
A23F (Subclass/Invention)



CPC: A23C9/142 A23C9/15 A23C9/1544 A23C9/156 A23F5/243 A23F5/30 A23C9/1307 A23C2210/30 A23C2260/20 A23C9/14 A23F5/26 A23C9/1422 A23C1/00 A23F3/30 A23F5/405 A23G1/46 A23G1/56 A23L33/10 A23L33/19 A23P30/40 A23C1/08 A23C3/20 A23F5/46 A23F5/02 A23F5/14 A23F5/18 A23F5/32 A23F5/40 A23F5/36 A23F5/36

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US: 426/281 426/385 426/385S 426/386 426/388 426/392 426/425 426/425S 426/432 426/470 426/470S 426/471 426/471S
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Priority:

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Probable Assignee: STARBUCKS CORP

Assignee(s): (std): CORP D B A STARBUCKS COFFEE CO STARBUCKS ; CRUZ J MARCIO DA ; DA CRUZ J MARCIO ; STARBUCKS CORP D ; STARBUCKS CORP ; ROBINSON URANO A ; STARBAKS CORP DI BI EHJ STARBAKS KOFE KOMPANI ; STARBAKS KORPOREJSHN DI BI EJ STARBAKS KOFE KOMPANI ; STARBUCKS CORP D B A STARBUCKS ; STARBUCKS CORP DBA STARBUCKS C ; STARBUCKS CORP D B A STARBUCKS COFFEE CO ; STARBUCKS D B A STARBUCKS COFFEE CO CORP ; VU DIEN VAN ; STARBUCKS CORP D B A STARBUCKS COFFEE COMPA ; STARBUCKS CORP D B A STARBUCKS COFFEE COMPA ; STARBUCKS CORP D B A STARBUCKS COFFEE CO ; STARBUCKS CORP DBA STARBUCKS COFFEE CO

Assignee(s): STARBUCKS D B A STARBUCKS COFFE CO CORP ; STARBUCKS DBA STARBUCKS COFFEE COMPANY CORP ; STARBUCKS D B A STARBUCKS COFFEE COMPANYUS CORP ; STARBUCKS D B A STARBUCKS COFFEE COMPA CORP ; STARBUCKS D B A STARBUCKS COFFEE CO CORP2401 UTAH AVENUE SOUTHSEATTLEWA98134-1435US ; STARBUCKS D B A STARBUCKS COFFEE CO CORP2401 UTAH AVENUE SOUTHSEATTLEWA98131-1067US ; STARBUCKS D B A STARBUCKS COFFEE COMPA CORP ; STARBUCKS D B A STARBUCKS COFFEE COMANY CORP ; STARBUCKS D CORP ; STARBUCKS DBA STARBUCKS COFFEE CO CORP ; STARBAKS KORPOREJSHN DI BI EHJ STARBAKS KOFE KOMPANI ; DA CRUZ MARCIO J ; STARBUCKS COFFEE CO ; STARBUCKS COFFEE CO CORP ; DA CRUZ JMARCIO ; D B A STARBUCKS COFFEE CO STARBUCKS CORP

Inventor(s): (std): CRUZ J MARCIO DA ; DA KRUS MARSIO DZH ; DIEN VAN VU ; J MARCIO DA CRUZ ; MARCIO DA CRUZ ; ROBINSON JURANO A ; URANO A ROBINSON ; URANO ROBINSON ; VAN VU DIEN ; VU DIEN VAN ; MARCIO J DA CRUZ ; CRUZ MARCIO J DA ; ROBINSON YURANO A ; ROBINSON URANO A ; ROBINSON URANO ; MARCIO DA CRUZ J ; DA CRUZ MARCIO J ; DA CRUZ MARCIO ; DA CRUZ J MARCIO ; DA KURTZ MARCIO J ; DA CRUZ MARIO J

Inventor(s): MARCIO DA CRUZJ ; ROBINSON URANO A ; ROBINSON URANO AUS ; VU DIEN ; URANO A ; DA CRUZ J ; DA CRUZ J MARCIOUS ; DA CRUZ JMARCIO

Agent(s): MALLESONS STEPHEN JAKUES; KING AND WOOD MALLESONS; MINTER ELLISON; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; PORZIO; PORZIO RIOS Y ASOCIADOS; ALICIA LLOREDA RICAURTE; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; CLT PATENT AND TRADEMARK HK LTD; CHINA PATENT AGENT HK LTD; HONG KONG PATENT AND TRADEMARK AGENT LTD; NISHIURA TSUGUHARU; OOO YURIDICHESKAYA GORODISSKIJ I PARTNERIYA; DONALDSON AND BURKINSHAW; KNOBBE MARTENS OLSON AND BEAR LLP; SEELIG MELANIE; ANDERSON MARIA CULIC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 NZ NA NE NG NI NL NO NZ OM PA 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

Abstract: A cartridge for forming a beverage includes a container defining an interior space, a filter, a beverage medium contained in the interior space, and a filter guard. The filter may be arranged so that liquid that interacts with the beverage medium flows through the filter to exit the interior space. The container may include a surface arranged to be pierced by a piercing member to permit beverage to exit the container. The filter guard may be arranged to contact the piercing member to resist damage to the filter when the container surface is pierced. In one embodiment the filter guard and filter may be in contact with the container surface that is pierced, yet damage to the filter that might be caused by the piercing element may be avoided.

Classifications:

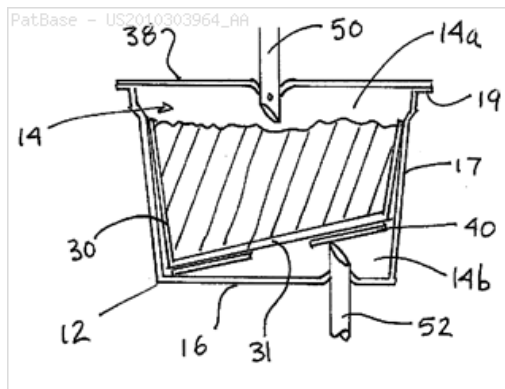
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International (IPC 1-7): B65D85/804

CPC: A47J31/446 B65D85/8043 Y10T29/49826 A47J31/0673 A47J31/465 B65D85/8046

European: B65D85/804B

US: 1/1 29/428 29/428S 426/394 426/394S 426/431 426/431S 426/77 426/77P 99/295 99/295S



Family:

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Priority:

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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

9) Family number: 50799972 (US2012070542A)

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Title: INSTANT BEVERAGE CARTRIDGES AND METHODS

Abstract: Present embodiments generally relate to a single-serve beverage cartridge for use with a single-serve coffee

brewer. In some embodiments, the cartridge includes a cup, a lid, and a single serving of instant coffee or another instant beverage component. In some embodiments, the cartridge is configured to be pierced by one or more piercing members, which can provide an opening for liquid to flow into and/or out of the cartridge. In certain instances, the cartridge includes an insert configured to facilitate mixing of the instant beverage component with the liquid. In some embodiments, the instant beverage component is compressed. In certain embodiments, the cartridge does not include a filter or a barrier configured to retain non-liquid matter within the cartridge.

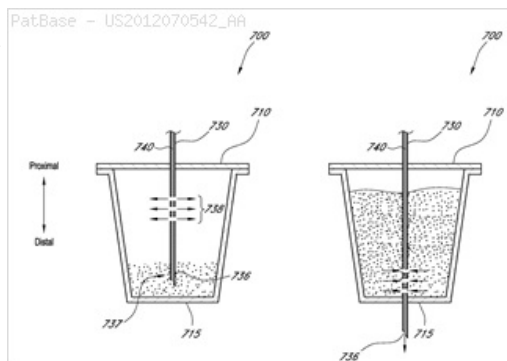
Classifications:

International (IPC 8-9): A47J31/02 A47J31/06 A47J31/40 B65B29/02 B65D B65D47/36 B65D81/20 B65D81/24 B65D85/72 B65D85/804 (Advanced/Invention)

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Family:

Publication number	Publication date	Application number	Application date
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