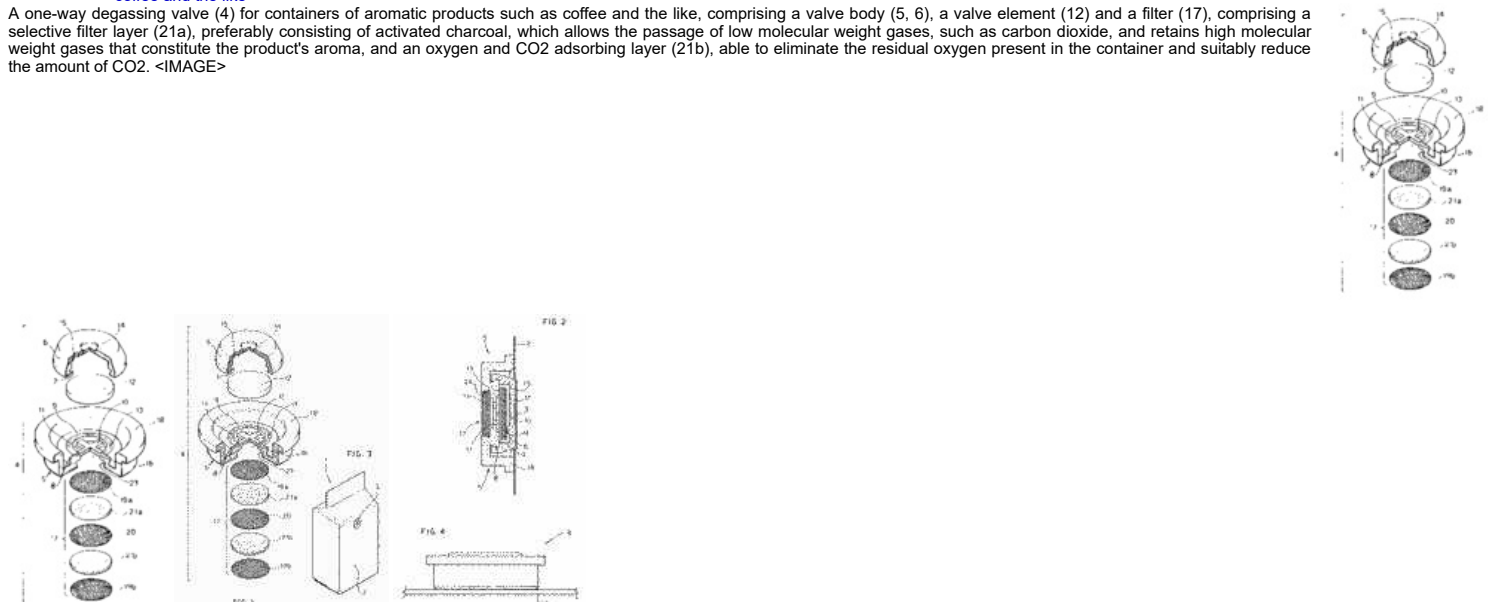
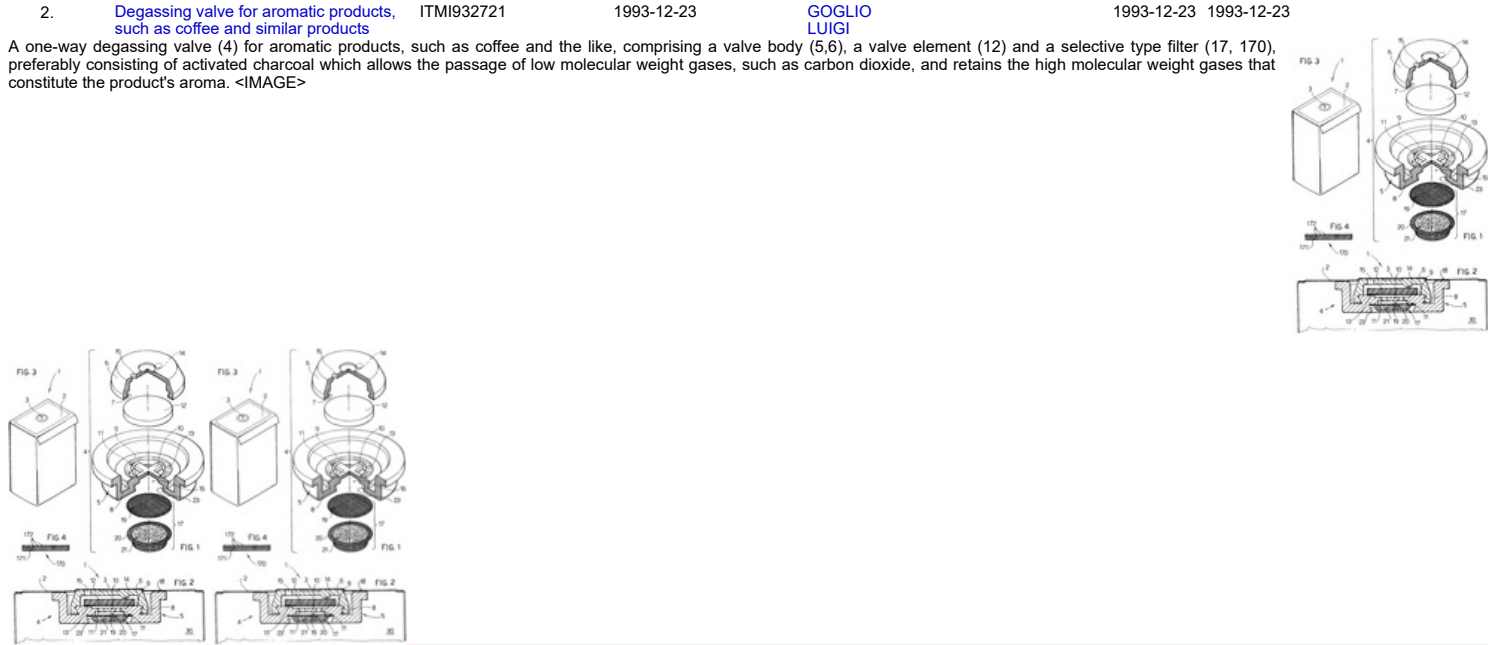
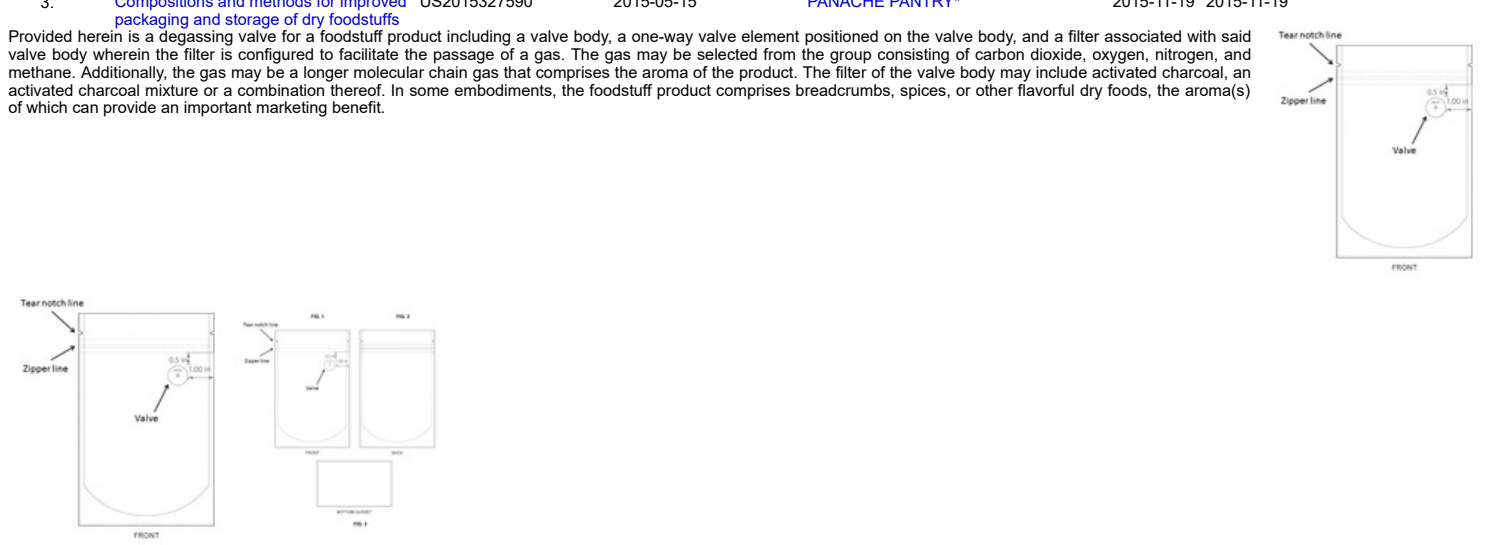
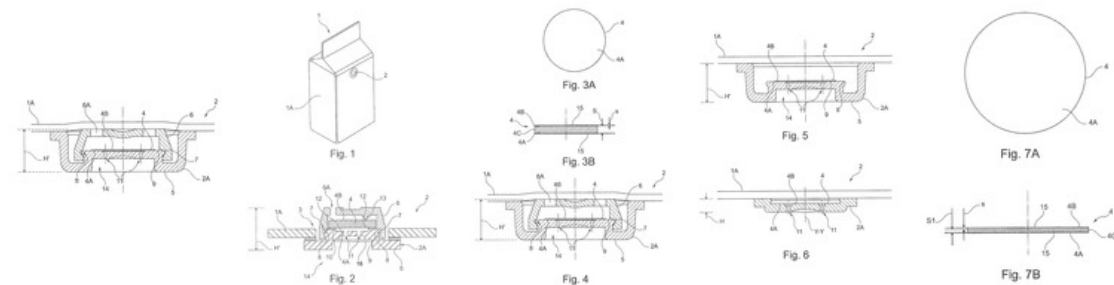
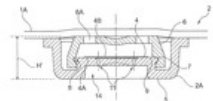


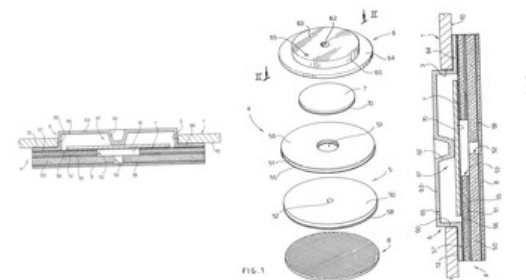
27793 results for Similar patents - Collection: FAMPAT

#	Title	Publication number	1st App. date	Applicant/Assignee	1st Publ. date	Publ. date
1.	Selective degassing valve for containers of aromatic or odorous products, such as coffee and the like	BRPI0104020	2000-12-06	GOGLIO LUIGI MILANO*	2001-11-13	2001-11-13
A one-way degassing valve (4) for containers of aromatic products such as coffee and the like, comprising a valve body (5, 6), a valve element (12) and a filter (17), comprising a selective filter layer (21a), preferably consisting of activated charcoal, which allows the passage of low molecular weight gases, such as carbon dioxide, and retains high molecular weight gases that constitute the product's aroma, and an oxygen and CO2 adsorbing layer (21b), able to eliminate the residual oxygen present in the container and suitably reduce the amount of CO2. <IMAGE> 						
2.	Degassing valve for aromatic products, such as coffee and similar products	ITMI932721	1993-12-23	GOGLIO LUIGI	1993-12-23	1993-12-23
A one-way degassing valve (4) for aromatic products, such as coffee and the like, comprising a valve body (5,6), a valve element (12) and a selective type filter (17, 170), preferably consisting of activated charcoal which allows the passage of low molecular weight gases, such as carbon dioxide, and retains the high molecular weight gases that constitute the product's aroma. <IMAGE> 						
3.	Compositions and methods for improved packaging and storage of dry foodstuffs	US2015327590	2015-05-15	PANACHE PANTRY*	2015-11-19	2015-11-19
Provided herein is a degassing valve for a foodstuff product including a valve body, a one-way valve element positioned on the valve body, and a filter associated with said valve body wherein the filter is configured to facilitate the passage of a gas. The gas may be selected from the group consisting of carbon dioxide, oxygen, nitrogen, and methane. Additionally, the gas may be a longer molecular chain gas that comprises the aroma of the product. The filter of the valve body may include activated charcoal, an activated charcoal mixture or a combination thereof. In some embodiments, the foodstuff product comprises breadcrumbs, spices, or other flavorful dry foods, the aroma(s) of which can provide an important marketing benefit. 						

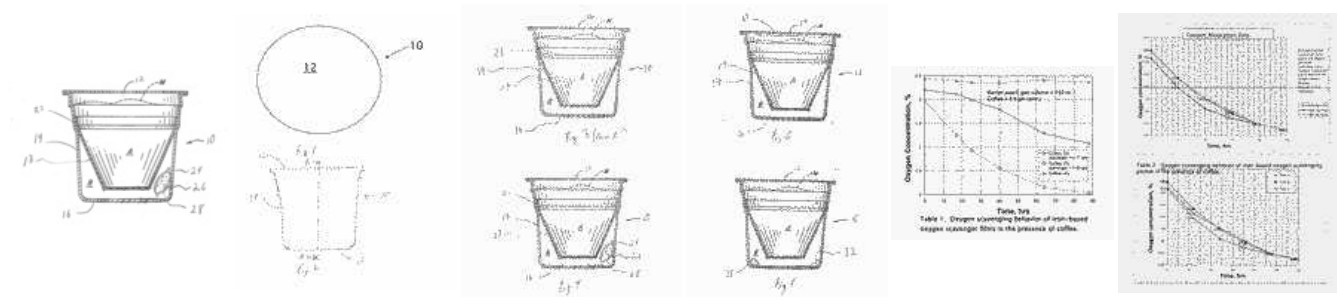
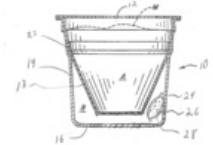
The present invention concerns a venting valve for a container (1) adapted to contain gas-releasing products comprising a valve body (2A) and a one-way valve member (4) movable between a first configuration and a second configuration, said valve member (4) being associated with said valve body (2A). Particularly the valve body (2A) is formed from a biodegradable material and said movable valve member (4) is a combination of at least one biodegradable material and at least one non biodegradable material.



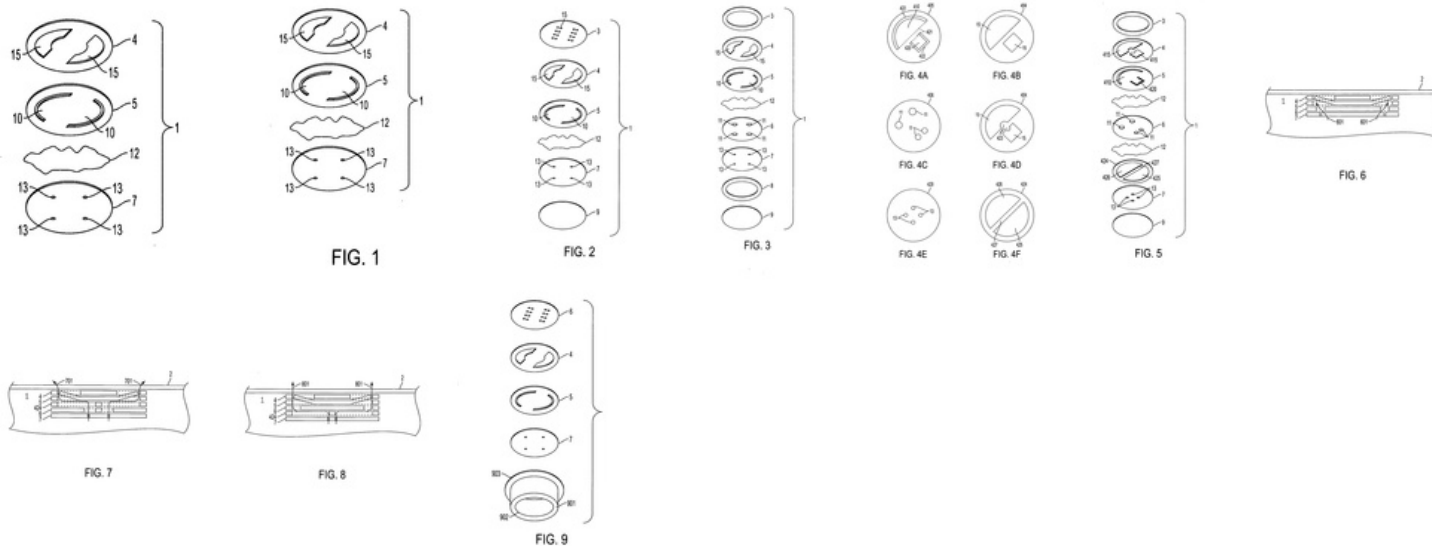
A one-way extra-flat degassing valve (4) for airtight containers (1) comprises: a base body or plate (5) with a first hole (52) with a smaller diameter for passage of the gases and a second hole (53) with a larger diameter for expansion of the gases; a cap (6) provided with an outlet hole (65) for discharge of gas designed to be coupled to the base body (5), and a mobile diaphragm (7) interposed between the base body (5) and the cap (6) to open/shut off the passage of gas from the second expansion hole (53) to the outlet hole (65).



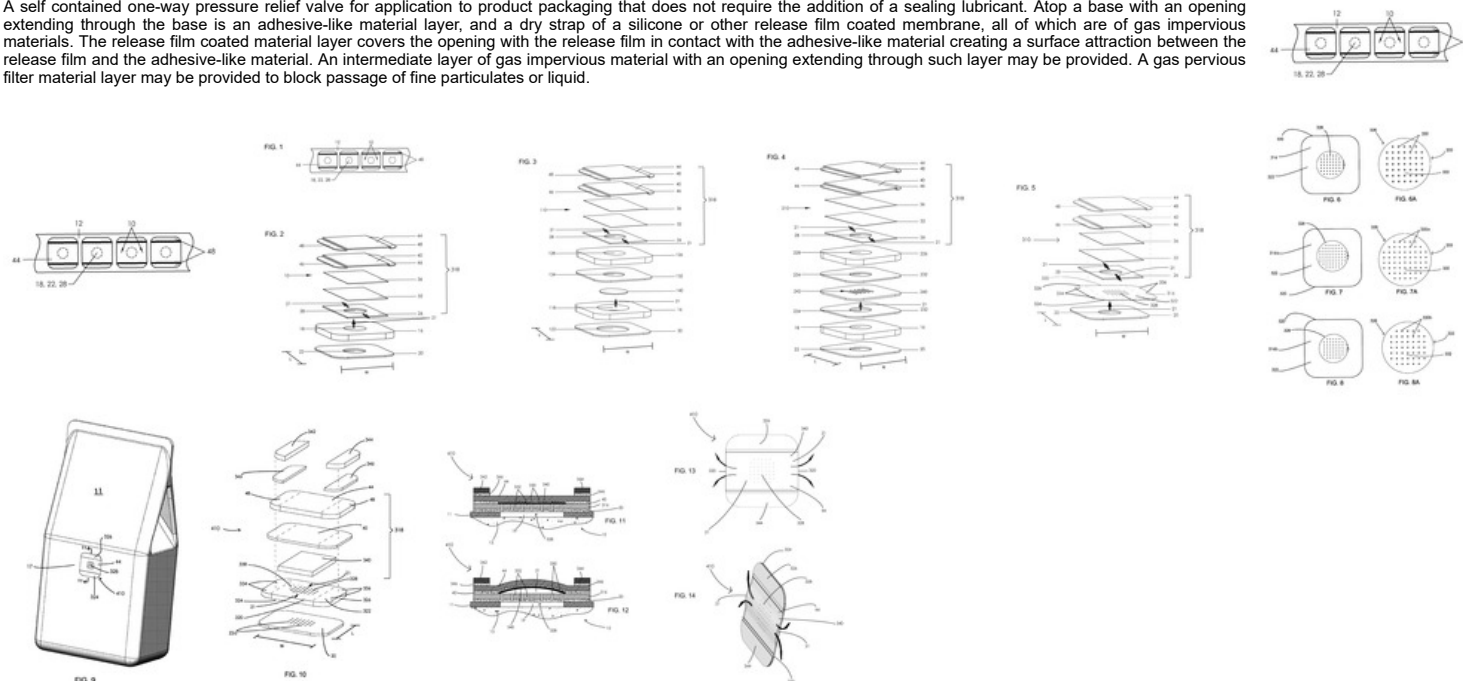
The invention provides for an extended shelf life single portion package including a container having therein a material for mammal ingestion that degrades by exposure to oxygen, water vapor, or carbon dioxide, an absorber selected from at least one of a carbon dioxide absorber, water vapor absorber, and oxygen scavenger wherein the container is substantially impervious to oxygen, carbon dioxide, and water vapor.



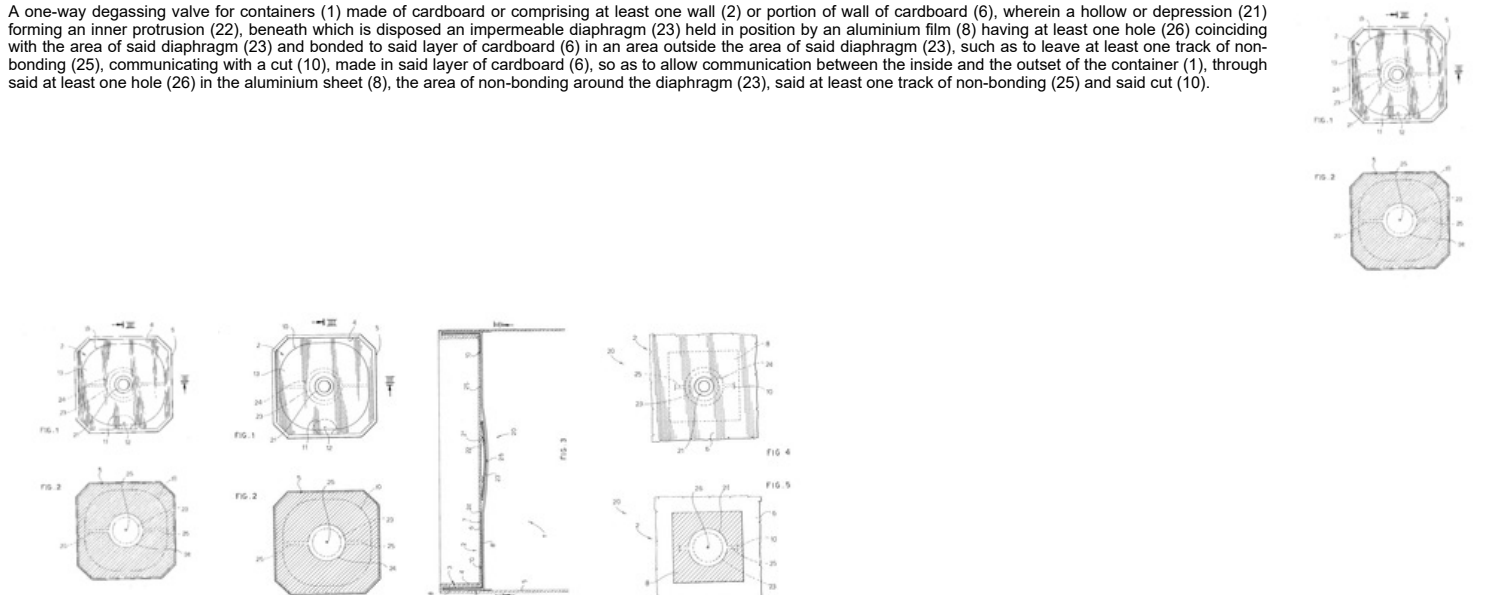
An environmentally advantageous gas exhaust valve to control pressure changes in a container relative to the outside atmosphere, such as release of excessive pressure buildup in a bag as well as the introduction of a vacuum in a bag. A valve includes a valve cap, a diaphragm spring plate with flaps and can also include a viscous material. A gas exhaust valve according to the invention is especially useful for coffee packages. The valve can also contain a cavity plate having multiple directional cavities and a viscous seal to allow the gas build up to escape, re-seal and thereby control pressure. A relief hole plate layer can also be provided, having a plurality of internal relief holes and a seal/filter layer and a filter seal to prevent the fine particles of the product inside the package from clogging the relief valve and interfering with its functionality and operation.



A self contained one-way pressure relief valve for application to product packaging that does not require the addition of a sealing lubricant. Atop a base with an opening extending through the base is an adhesive-like material layer, and a dry strap of a silicone or other release film coated membrane, all of which are of gas impervious materials. The release film coated material layer covers the opening with the release film in contact with the adhesive-like material creating a surface attraction between the release film and the adhesive-like material. An intermediate layer of gas impervious material with an opening extending through such layer may be provided. A gas pervious filter material layer may be provided to block passage of fine particulates or liquid.

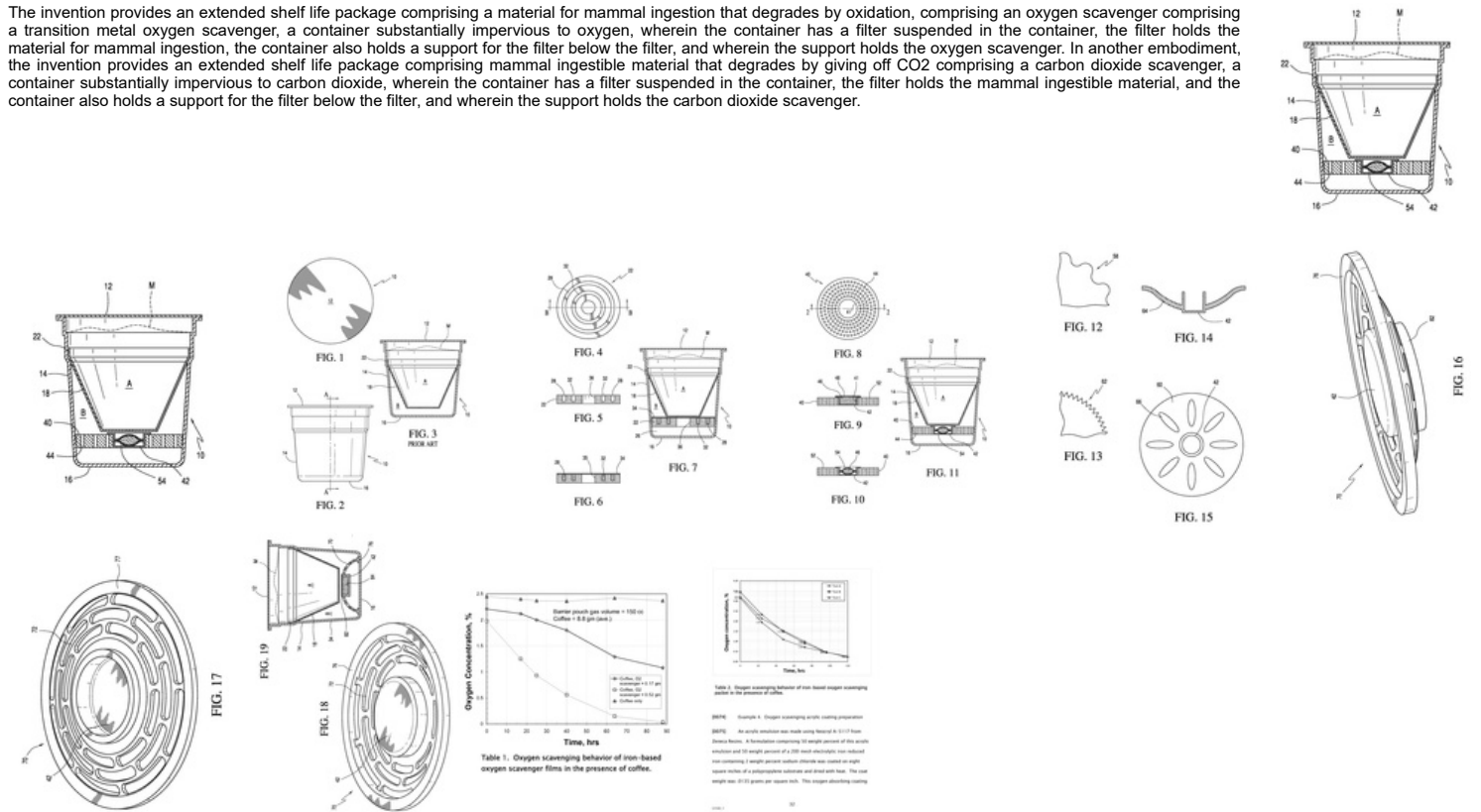


A one-way degassing valve for containers (1) made of cardboard or comprising at least one wall (2) or portion of wall of cardboard (6), wherein a hollow or depression (21) forming an inner protrusion (22), beneath which is disposed an impermeable diaphragm (23) held in position by an aluminium film (8) having at least one hole (26) coinciding with the area of said diaphragm (23) and bonded to said layer of cardboard (6) in an area outside the area of said diaphragm (23), such as to leave at least one track of non-bonding (25), communicating with a cut (10), made in said layer of cardboard (6), so as to allow communication between the inside and the outset of the container (1), through said at least one hole (26) in the aluminium sheet (8), the area of non-bonding around the diaphragm (23), said at least one track of non-bonding (25) and said cut (10).

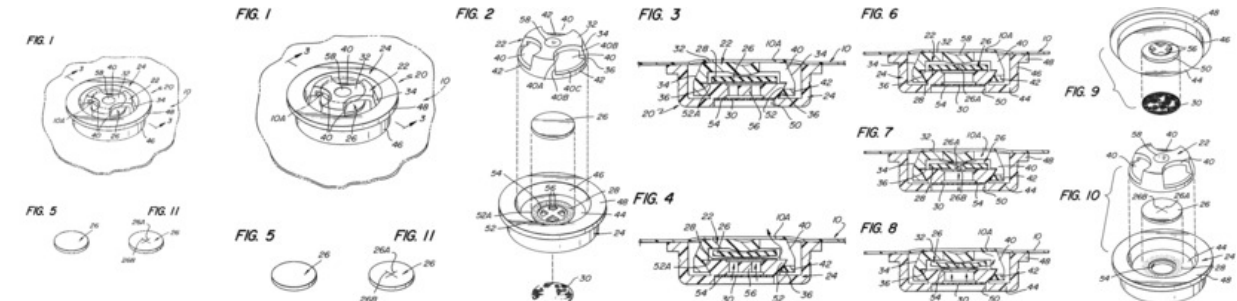
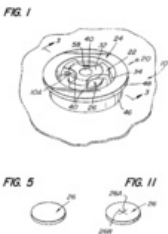


10. Container with an absorbent support below the filterUS20121713332011-01-04MULTISORB TECHNOLOGIES*2012-07-052012-07-05

The invention provides an extended shelf life package comprising a material for mammal ingestion that degrades by oxidation, comprising an oxygen scavenger comprising a transition metal oxygen scavenger, a container substantially impervious to oxygen, wherein the container has a filter suspended in the container, the filter holds the material for mammal ingestion, the container also holds a support for the filter below the filter, and wherein the support holds the oxygen scavenger. In another embodiment, the invention provides an extended shelf life package comprising mammal ingestible material that degrades by giving off CO₂ comprising a carbon dioxide scavenger, a container substantially impervious to carbon dioxide, wherein the container has a filter suspended in the container, the filter holds the mammal ingestible material, and the container also holds a support for the filter below the filter, and wherein the support holds the carbon dioxide scavenger.

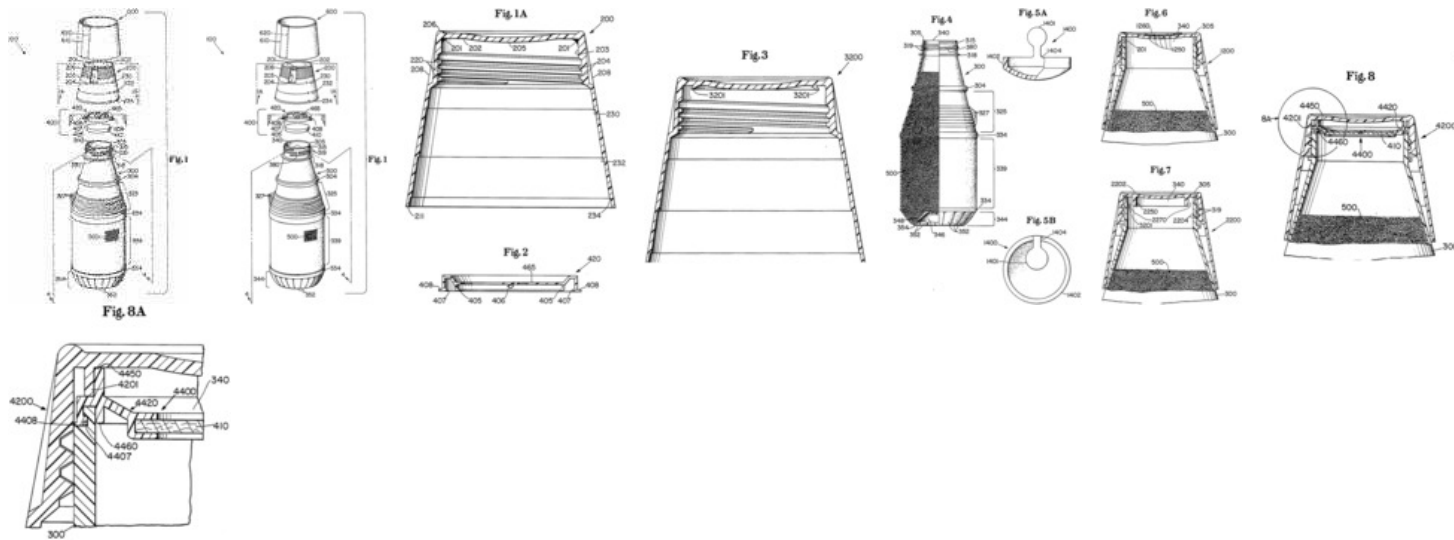
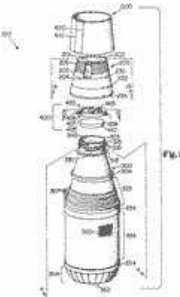


A package including a degassing valve for holding a material, e.g., a particulate material, within the package isolated from the ambient atmosphere. The degassing valve is mounted on the wall panel and basically comprises a cap, a base, and a flexible disk. The cap is a hollow cylindrical member from which three peripheral portions are cut away to form three equidistantly spaced peripheral outlet ports disposed above an uninterrupted ring-like portion of the cap. The base is a generally cup-shaped member having first portion arranged to be located and snap-fit within the cap member and which forms a valve seat. An inlet port extends to the valve. The disk is located on the valve seat and covering the inlet port but is movable with respect thereto. The inlet port of the valve is in communication with the interior of the package and the peripheral outlet ports are in communication with the ambient atmosphere, whereupon gas within the package is enabled to flow through the inlet port, under the disk member to cause at least a portion of the disk member to move off of the valve seat, and out through the outlet port to the ambient atmosphere. The disk may include at least one aperture so that the degassing valve is of the two-way type, instead of a one-way type.

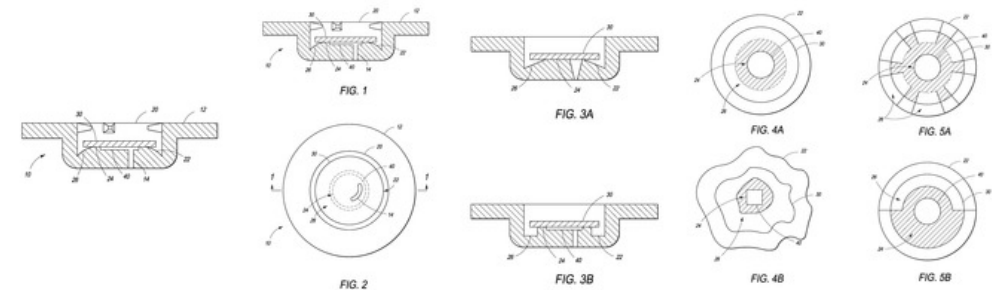
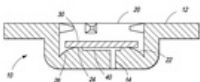


12. Packaging of fresh roasted coffee exhibiting improved aroma retentionEP03501281989-05-26EKONOMON ADAM ESQ*
FOLGERS COFFEE*
KNUDSEN JEANNETTE L*
PROCTER & GAMBLE*1990-01-101990-01-10

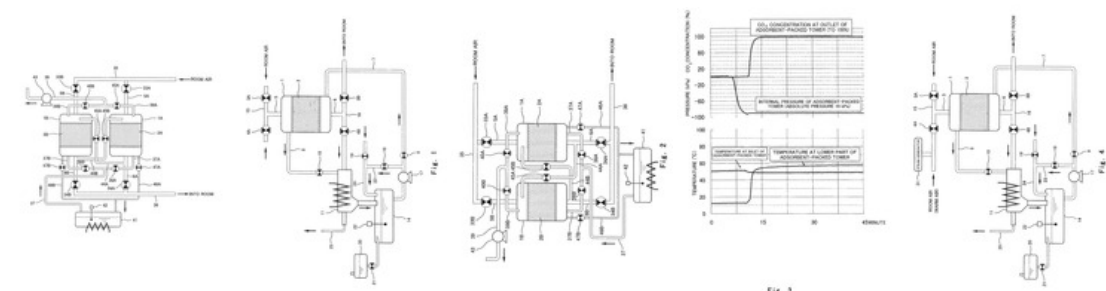
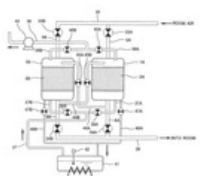
Packaging (100) for coffee (500) which is to be packed as quickly as is feasible after roasting, i.e., without undergoing substantial off gassing. The packaging preferably comprises a semi-rigid, substantially gas-imperious container (300) capable of withstanding the pressures generated by the release of carbon dioxide and other gases from the fresh roasted coffee in the container. The semi-rigid container is preferably comprised of plastic and predetermined portions of the container are preferably capable of undergoing limited deformation. This prevents instability of the base of the container, thereby keeping its vertical axis erect, and ensures that the container does not become jammed within the shipping case in which it is transported due to lateral expansion. The semi-rigid container includes resealable closure means (200) which are capable of: initially forming and maintaining a substantially gas tight seal between the package and the atmosphere until the package is initially opened by the end user and establishing a reseal which is effective to substantially resist ambient atmospheric pressure changes upon snug reapplication of the closure means to the container. Means (400) are preferably provided to prevent aspiration of the pressurized coffee, particularly when it is in granular form, from the discharge orifice of the container upon initial opening by the consumer. Roasted coffee product placed in packaging of the present invention prior to substantial off gassing exhibits greatly improved aroma retention and reduced oxidation over the normal useful life of the package from initial opening by the consumer to emptying.



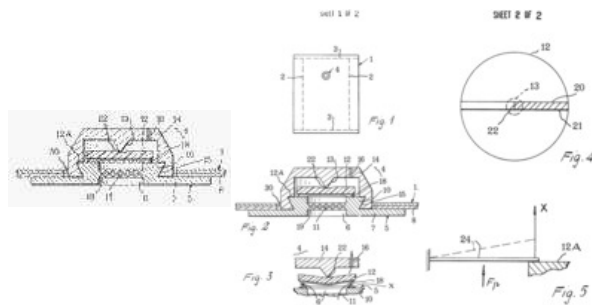
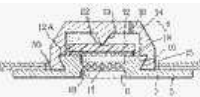
A pressure relief valve for use with flexible containers is disclosed. The valve comprises a valve chamber, a valve chamber seat with an inlet gas port or ports to the interior of the container and a resilient diaphragm floating within the chamber. The valve seat is shaped with a generally flat diaphragm-engaging surface in a central area of the diaphragm where the inlet gas port(s) are located, and at least one surface that does not generally engage the outer portion of the diaphragm, such that a diaphragm floating in the valve chamber engages a central portion of the valve seat surface stopping the passage of gases in or out of the container before a certain pressure is reached, but permitting the passage of gases from within the flexible container as pressure builds, while preventing the flow of atmospheric gases into the container.

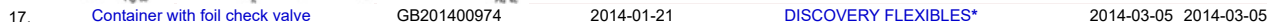


Provided is a carbon dioxide separation method and a carbon dioxide separation apparatus capable of maintaining a carbon dioxide adsorption capacity for a long term by collecting an amine compound that evaporates during an operation of the apparatus and reloading the amine compound onto a carbon dioxide adsorbent. An amine collector 11 and an amine aqueous solution preparation device 14 are connected to an adsorbent-packed tank 1 packed with a carbon dioxide adsorbent 2. An amine compound that evaporates from the carbon dioxide adsorbent 2 during an operation of the apparatus is collected by the amine collector 11 into the amine aqueous solution preparation device 14. The collected amine compound is reloaded onto the carbon dioxide adsorbent 2 via a supply line 7.

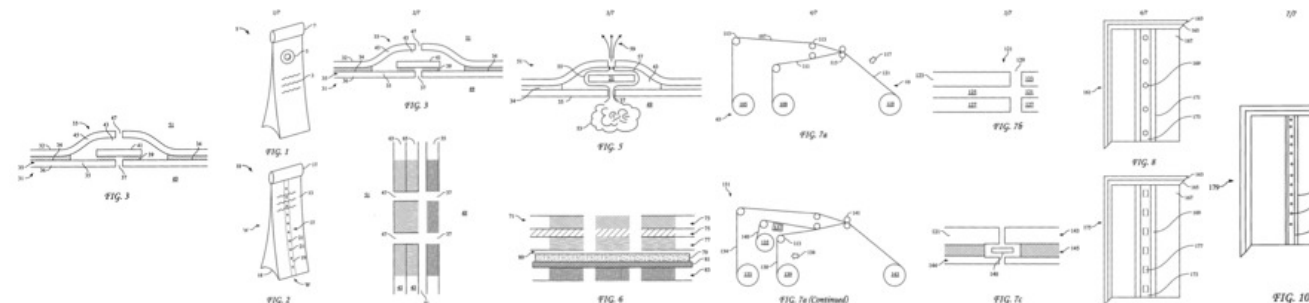


A unidirectional degassing valve for products in thermoweldable flexible containers, comprising a thermoplastic material moulded base member provided with at least one conduit; a resilient valve member normally closing said conduit and bearing on the base member through a viscous layer; and a cap connected with said base member, therewith defining a chamber wherein said resilient valve member is located, and provided with at least one exhaust aperture, through which said chamber communicates with the external atmosphere.



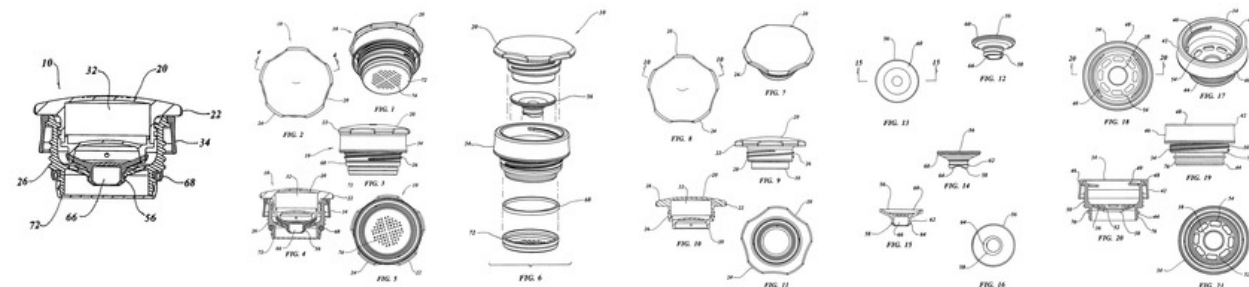


An improved apparatus and method for releasing excess gas from a container. The container has a gas tight wall which forms a product containing cavity, an outer wall and a one way valve for allowing gas to leave the cavity. The valve has a first perforated layer which forms part of the gas tight wall of the cavity, a second perforated layer which forms part of the outside of the container. The first perforated layer and the second perforated layer are joined together such that an enclosed volume is formed between the first perforated layer and the second perforated layer. The gas tight layer prevents the flow of gas from the container when in a first position and allows gas to move through the valve when in a second position. The second position if the layer is caused by overpressure in the cavity.

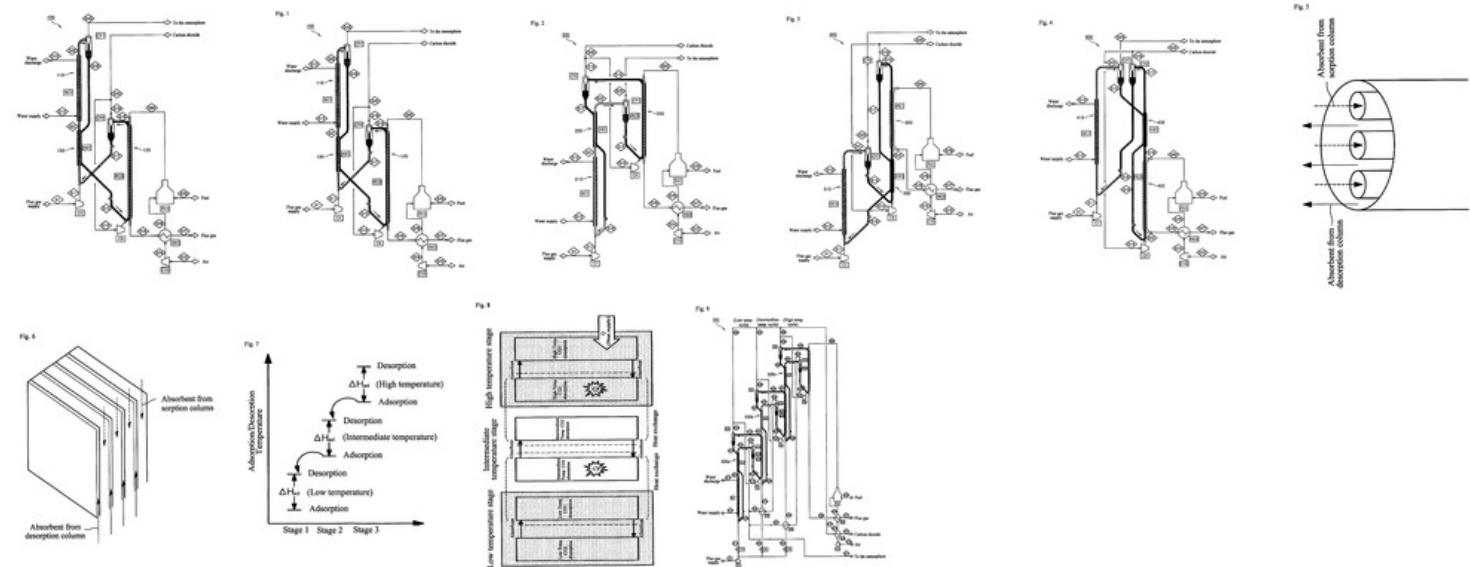


18.	Vacuum mug separable cap	US2012074143	2011-07-11	LIN SHIN-SHUOH	2012-03-29	2012-03-29
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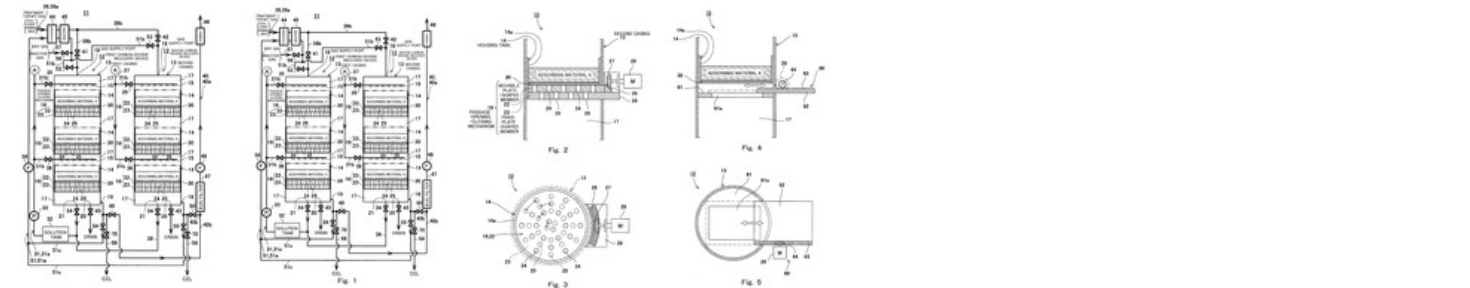
A separable cap (10) for a vacuum mug is taught which consists of a removable lid (20) having a graspable shaped outwardly extending lip (22) and a stopper body (34), having a bottom portion (36) which includes a central orifice (38). The removable lid is attached to the stopper body and a resilient diaphragm plug (56) is compressed between the lid and the stopper body. A stopper mug seal (68) is attached to the stopper body providing a liquid tight seal between the cap and the vacuum mug. A beverage filter (72) is removeably attached to the stopper body bottom portion permitting a beverage a media to be placed into the vacuum mug and hot water poured over the media, after steeping, a brewed beverage is formed. When the lid is removed the compressed diaphragm plug is released and returns to its original dishd shape permitting the beverage to be sipped from the stopper body and the media residue strained with the filter.

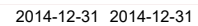


The present invention relates to a carbon dioxide capture apparatus having a temperature swing adsorption mode for selective separation of carbon dioxide from flue gases. The carbon dioxide capture apparatus comprises: a carbon dioxide sorption column including a carbon dioxide adsorption unit in which adsorption of carbon dioxide from flue gases occurs; a carbon dioxide desorption column connected to the carbon dioxide sorption column and including a carbon dioxide desorption unit in which desorption of the adsorbed carbon dioxide occurs; a carbon dioxide adsorbent repeatedly adsorbing and desorbing carbon dioxide while circulating through the carbon dioxide sorption column and the carbon dioxide desorption column; and a heat exchange unit in which heat exchange occurs between the adsorbent after carbon dioxide adsorption and the adsorbent after carbon dioxide desorption.

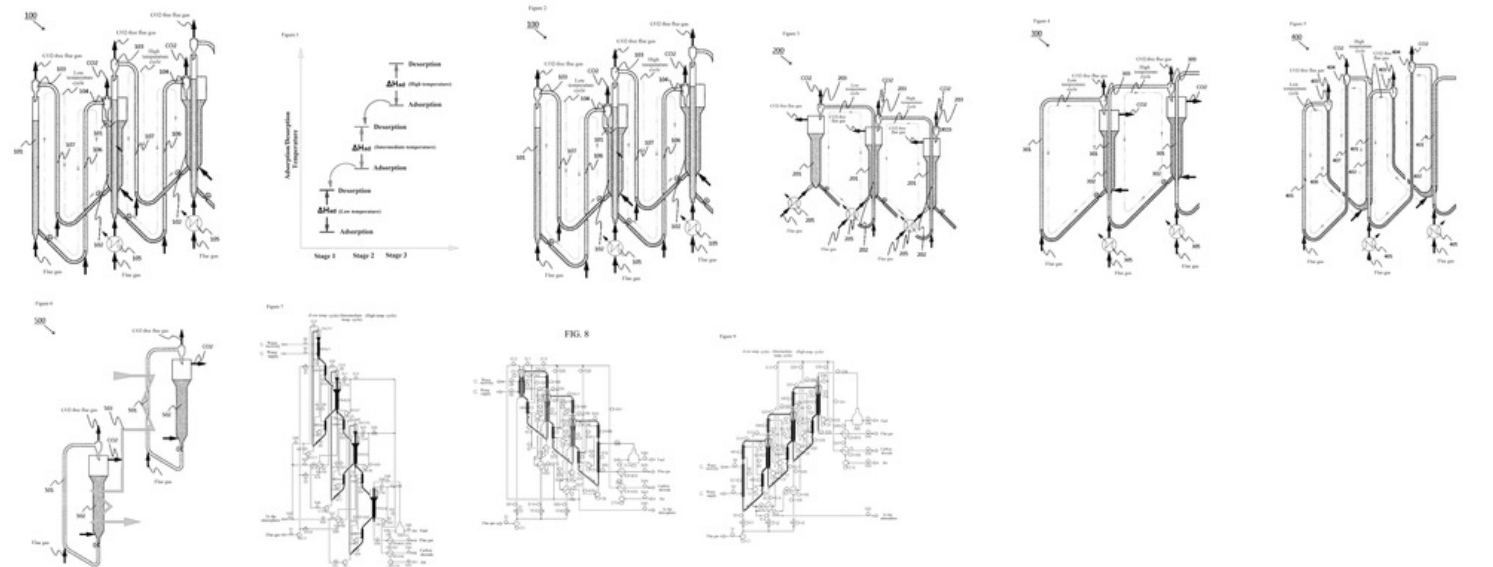


Provided is a device for recovering carbon dioxide, the device making it possible to perform a process for adsorbing carbon dioxide, a process for desorbing carbon dioxide, a process for repairing a carbon dioxide adsorbent, and a process for producing the carbon dioxide adsorbent. A device (12) for recovering carbon dioxide, the device making it possible to perform a process for adsorbing carbon dioxide, a process for desorbing carbon dioxide, a process for repairing a carbon dioxide adsorbent, and a process for producing the carbon dioxide adsorbent, wherein the device comprises: a casing (13) having a fluid processing channel (17) and comprising a gas supply port (18) for supplying a gas to the gas processing channel (17) and a gas discharge port (19) for discharging the gas supplied to the gas processing channel (17); a plurality of accommodation tanks (14) for accommodating a carbon dioxide adsorbent (K), the tanks being provided in the gas processing channel (17); and an adsorbent liquid supply part (15) for supplying an adsorbent liquid to the accommodation tanks (14). A channel open/close mechanism (16) that allows the adsorbent liquid supplied to the accommodation tanks (14) to be stored and discharged is provided to the bottom of each of the accommodation tanks (14).

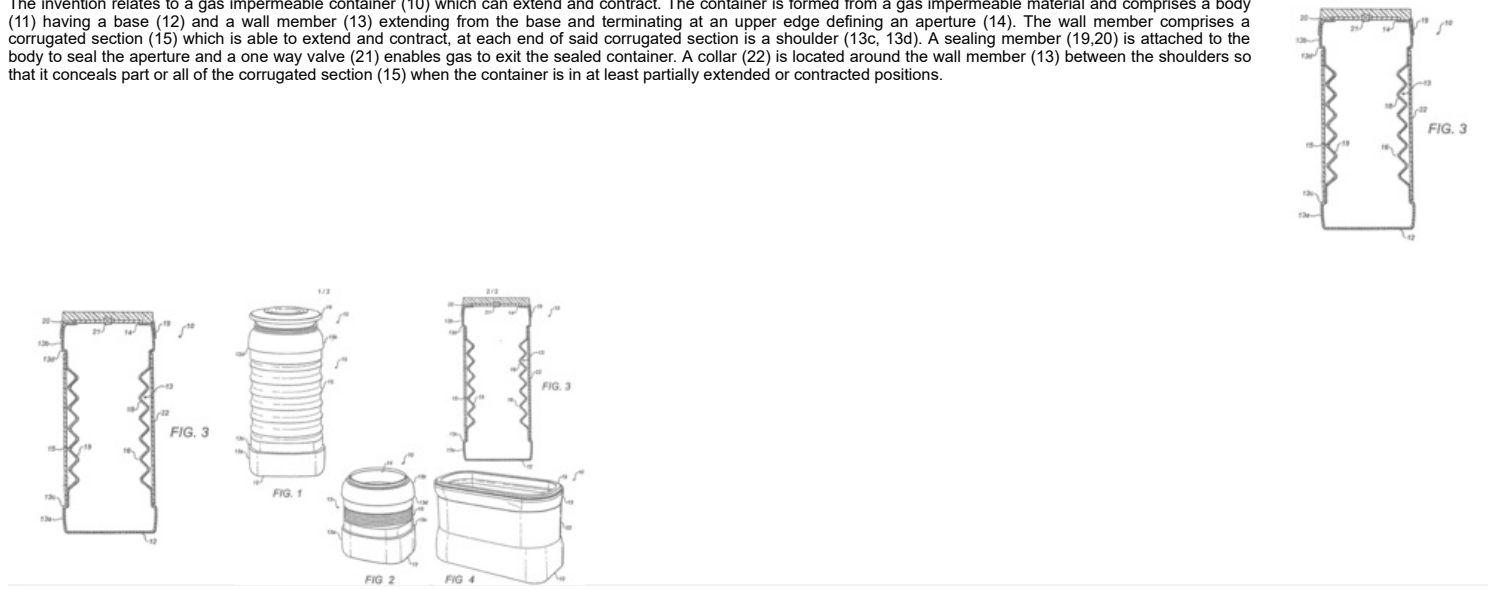


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One embodiment of the present invention provides a carbon dioxide capture system. The system includes a first carbon dioxide adsorption/desorption section and a second carbon dioxide adsorption/desorption section. The first carbon dioxide adsorption/desorption section includes a first carbon dioxide adsorption section, a first carbon dioxide desorption section connected to the first carbon dioxide adsorption section, and a first carbon dioxide adsorbent circulating through the first carbon dioxide adsorption section and the first carbon dioxide desorption section. The second carbon dioxide adsorption/desorption section includes a second carbon dioxide adsorption section, a second carbon dioxide desorption section connected to the second carbon dioxide adsorption section, and a second carbon dioxide adsorbent circulating through the second carbon dioxide adsorption section and the second carbon dioxide desorption section. The first carbon dioxide adsorption section is connected to the second carbon dioxide desorption section such that adsorption heat generated from the first carbon dioxide adsorption section can be transferred to the second carbon dioxide desorption section. The first carbon dioxide adsorbent has different adsorption and desorption temperatures from the second carbon dioxide adsorbent.



The invention relates to a gas impermeable container (10) which can extend and contract. The container is formed from a gas impermeable material and comprises a body (11) having a base (12) and a wall member (13) extending from the base and terminating at an upper edge defining an aperture (14). The wall member comprises a corrugated section (15) which is able to extend and contract, at each end of said corrugated section is a shoulder (13c, 13d). A sealing member (19,20) is attached to the body to seal the aperture and a one way valve (21) enables gas to exit the sealed container. A collar (22) is located around the wall member (13) between the shoulders so that it conceals part or all of the corrugated section (15) when the container is in at least partially extended or contracted positions.



PROBLEM TO BE SOLVED: To provide a carbon dioxide absorbent that can be applied to hot gas, is never micronized even if it is repeatedly employed, and whose absorption amount per unit volume of the absorbent is large, and a carbon dioxide separating apparatus and a method for separating carbon dioxide, using the same.
SOLUTION: The carbon dioxide absorbent includes a composite oxide comprising a transition metal element M and an alkaline earth mental element A, wherein cobalt is contained in the transition metal element M and calcium is contained in the alkaline earth metal element A, and also the apparatus and method for separating carbon dioxide using the carbon dioxide absorbent are provided.
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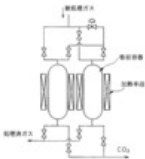


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