

Title (en)  
DIMENSIONALLY UNSTABLE STORAGE CONTAINER AND METHOD FOR STORING GASES

Title (de)  
NICHT FORMBESTÄNDIGER SPEICHERBEHÄLTER UND VERFAHREN ZUM SPEICHERN VON GASEN

Title (fr)  
RECIPIENT DE STOCKAGE DEFORMABLE ET PROCEDE POUR STOCKER DES GAZ

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Application  
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Abstract (en)  
[origin: DE10113725A1] The invention relates to a dimensionally unstable storage container, especially for storing gases and/or gas mixtures, which substantially consists of a gas-permeable material, such as for example a coated rubber or a textile-reinforced polyester. The invention also relates to a method of storing one or more gases or gas mixtures in such a storage container. The dimensionally unstable storage container of the invention is enclosed by at least one further storage container that likewise substantially consists of a gas-permeable material, and/or at least one further storage container that consists of a non-gas-permeable material. According to the inventive method the outer storage compartment(s) is/are filled with an oxygen-free gas or gas mixture, preferably an inert gas or gas mixture.  
[origin: DE10113725A1] The gas storage container (2), with a flexible shape, is of a gas-permeable material e.g. coated rubber or textile-reinforced polyester shrouded by an outer container (4) of a gas-permeable material and/or of a gas-impermeable material. The outer container storage zone (3) is filled with a gas or gas mixture which is free of oxygen, or an inert gas. The inner container has a monitor (5,6) to register a gas concentration. The gas storage container (2), with a flexible shape, is of a gas-permeable material e.g. coated rubber or textile-reinforced polyester shrouded by an outer container (4) of a gas-permeable material and/or of a gas-impermeable material. The gas storage container has a system (7,8) to feed gas or a gas mixture into and out of the storage zones (1,3) within the container. The outer container storage zone (3) is filled with a gas or gas mixture which is free of oxygen, or an inert gas. The inner container has a monitor (5,6) to register a gas concentration, and preferably the level of oxygen present. The pressure and/or volume changes in one of the containers is controlled by adjusting the pressure and/or volume in the other container.

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