Title (en)

VOLUME ADJUSTED PRESERVATION CONTAINMENT SYSTEM

Title (de)

MENGENADAPTIERTES KONSERVIERUNGS- UND EINSCHLUSSSYSTEM

Title (fr)

SYSTÈME DE CONFINEMENT ET DE CONSERVATION À AJUSTEMENT DE VOLUME

Publication

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Application

EP 10749290 A 20100303

Priority

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- US 15712909 P 20090303

Abstract (en)

[origin: WO2010102044A2] In an embodiment of the invention, reactant sensitive substances are stored in a container where a diaphragm inside the container is expanded to reduce air in contact with the substances. In an embodiment, an inner diaphragm is expanded by pushing on an outer diaphragm and forcing the inner diaphragm towards the substance where the gas containing the reactants is forced out a one-way valve. In an embodiment of the invention, a second one-way valve allows air into a container void space between the inner and outer diaphragms when a force is applied to the outer diaphragm that pumps out the gas and brings the inner diaphragm into contact with the substance. To open the container, the vacuum can be released by pressing a first one-way conditional valve which releases air into the container. A second one-way conditional valve can release the air trapped in the container void space.

IPC 8 full level

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CPC (source: EP US)

A47J 47/10 (2013.01 - EP US); **B05B 11/02** (2013.01 - EP); **B05B 11/061** (2013.01 - EP); **B65D 81/2038** (2013.01 - EP US); **B65D 81/245** (2013.01 - EP US)

Citation (search report)

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- See references of WO 2010102044A2

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