

Title (en)
GAS STORAGE AND DELIVERY SYSTEM FOR PRESSURIZED CONTAINERS

Title (de)
GASSPEICHER UND -ABGABESYSTEM FÜR DRUCKBEHÄLTER

Title (fr)
SYSTEME DE STOCKAGE ET DE DISTRIBUTION DE GAZ POUR CONTENEURS PRESSURISES

Publication
EP 1755986 A1 20070228 (EN)

Application
EP 04755880 A 20040612

Priority
US 2004020007 W 20040612

Abstract (en)
[origin: WO2006001808A1] A gas adsorption material containing a desired quantity of gas is placed in a pressurized container along with a product to be dispensed, and a pressure in the container is depleted during use, stored gas is released into the container to maintain pressure in the container within a predetermined range. The material may be in contact or it may be isolated from the product, this is known as a pressure swing adsorption (PSA) system, wherein adsorption of gas into the material occurs at a high pressure, and desorption of gas from the material occurs at a low pressure. The adsorbent material may be in granular, powdered, or pellet form, or a mass of material may be formed into variously shaped cohesive bodies, such as balls, tubes, cubes or rods, or sheets or screens which may be flat or curved or folded into various shapes, such as, for example, an accordion-like fold.

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