

Title (en)

METHOD FOR CREATION OF POSITIVE PRESSURE OF SORBED GAS IN AN AEROSOL PACKAGE

Title (de)

VERFAHREN ZUM ERZEUGEN EINES ÜBERDRUCKS VON SORBIERTEM GAS IN EINER AEROSOL-VERPACKUNG

Title (fr)

PROCEDE DE CREATION D'UNE PRESSION POSITIVE DE GAZ SORBE DANS UN CONDITIONNEMENT AEROSOL

Publication

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Application

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- SU 4950869 A 19910629

Abstract (en)

[origin: EP0569590A1] The invention relates to packaging techniques, namely to methods of creation of positive pressure for discharging the content of a package and is directed to providing for uniform flow rate of the atomized substance, increasing the efficiency, as well as decreasing the adverse effect on the environment of the use of the aerosol packages. An aerosol package, in the working cavity of which a positive pressure of a sorbed gas is created when it is used, comprises a sealed receptacle (1) filled with a substance (liquid) (9) to be atomized and provided with a gas cushion containing a sorbed gas, for instance CO₂. The receptacle is connected to the atomizing nozzle (5) through a tube (13) whose input is located below the level of the substance (9) to be atomized. The package also comprises a sorbent (11) contained in a cavity (10) isolated from the outside atmosphere outside the receptacle (1) and from the substance (9) to be atomized, whereas the cavity (10) is connected hydraulically to the gas cushion. As sorbent is used a substance which has a higher absorption capacity for the sorbed gas than the substance (9) to be atomized, for instance the activated carbon or zeolite. The method allows to decrease the adverse effect of the human activity on the environment. <IMAGE>

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Cited by

EP1110879A1; WO2008053215A1; FR2802515A1; EP2327921A1; US8746503B2; EP2165968A1; US8240509B2; WO9958415A1; WO2008053216A1; WO2007128157A1; US6527150B2

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