

Title (en)

AEROSOL CONTAINER FOR MULTIPLE FLUID DISCHARGE, MULTIPLE FLUID DISCHARGE AEROSOL PRODUCT, AND INTERNAL CONTAINER USED THEREFOR

Title (de)

AEROSOLBEHÄLTER ZUR ENTLADUNG MEHRERER FLUIDE, AEROSOLPRODUKT ZUR ENTLADUNG MEHRERER FLUIDE UND DAFÜR VERWENDETER INTERNER BEHÄLTER

Title (fr)

CONTENEUR AÉROSOL POUR DÉCHARGE DE FLUIDES MULTIPLES, PRODUIT AÉROSOL POUR DÉCHARGE DE FLUIDES MULTIPLES ET CONTENANT INTERNE UTILISÉ À CET EFFET

Publication

EP 2634111 A4 20170823 (EN)

Application

EP 11836475 A 20111028

Priority

- JP 2010244841 A 20101029
- JP 2011075005 W 20111028

Abstract (en)

[origin: EP2634111A1] [Problem] To provide an internal container that is composed of a laminated sheet containing a metal foil layer that is resistant to degradation such as corrosion even if immersed in the content to be put in the container, an aerosol container for multiple fluid discharge provided therewith, and a multiple fluid discharge aerosol product. [Solution] A multiple fluid discharge type aerosol product (10) comprises: an outer container (11); an intermediate container (12) flexible enough to be inserted into the outer container; an internal container (13) flexible enough to be inserted into the intermediate container; and an aerosol valve (14) (hereinafter, valve) for closing the openings of these containers. The aerosol product independently stores and discharges two kinds of contents. The internal container is obtained by bonding one or more laminated sheets having the flexibility and provided with a metal foil layer and a synthetic resin layer, and is provided with a protection means on the end surface of the laminated sheet.

IPC 8 full level

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CPC (source: EP US)

B65D 83/20 (2013.01 - EP US); **B65D 83/384** (2013.01 - EP US); **B65D 83/62** (2013.01 - EP US); **B65D 83/682** (2013.01 - EP US)

Citation (search report)

- [Y] JP 2005206158 A 20050804 - MITANI VALVE CO LTD
- [Y] US 4011968 A 19770315 - MCGHIE RUSSELL PARK, et al
- [Y] US 4226337 A 19801007 - ABBOTT JOSEPH L
- [Y] FR 2164825 A1 19730803 - YOSHINO KOGYOSHO CO LTD
- [Y] US 3660194 A 19720502 - HOFFMANN ARTHUR W, et al
- [Y] WO 03072459 A2 20030904 - FOMO PRODUCTS INC [US]
- [Y] EP 0510352 A2 19921028 - BRISTOL MYERS SQUIBB CO [US]
- [Y] JP 2004161292 A 20040610 - DAIZO KK
- See also references of WO 2012057342A1

Cited by

DE102016012650A1; EP2657151A4; EP3034241A1; US11312565B2; WO2019234095A1; WO2016096796A1; DE102016012651A1; WO2018077598A1; WO2018077597A1; US11034508B2

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DOCDB simple family (application)

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