Title (en)

ONE-WAY VALVE FOR DELIVERING A FREE-FLOWING MATERIAL

Title (de)

EINWEGVENTIL ZUR ABGABE EINES FLIESSFÄHIGEN MATERIALS

Title (fr)

VALVE UNIDIRECTIONNELLE PERMETTANT DE CEDER UNE MATIERE APTE A L'ECOULEMENT

Publication

EP 1499538 A2 20050126 (DE)

Application

EP 03746804 A 20030404

Priority

- DE 0301108 W 20030404
- DE 10217655 A 20020419

Abstract (en)

[origin: WO03089325A2] The invention relates to a one-way valve for repeatedly delivering a free-flowing material, in a manner the prevents the material from being recontaminated, out of a container whose volume can preferably be reduced. Said one-way valve has a valve seat. This valve seat is made of a rigid plastic, is placed in the container neck, contains a base body, which rests against the inner wall of the container neck and has at least one through hole, and contains a projection extending in the axial direction of the container neck toward the discharge opening. An elastic seal is placed over the valve seat and has an annular section, which covers the at least one through hole, and a sleeve-like section, which surrounds the projection at a radial distance with the exception of its end section that, when the valve is closed in the discharge opening, rests against the end section of the projection. A sterilizing element made of silver or of another oligodynamically effective metal can be placed in the space between the projection of the valve seat and the elastic seal. The exertion of pressure onto the container contents results in the annular section of the seal freeing the at least one through hole of the valve seat, whereby the end section of the sleeve-like part of the seal exits from the discharge opening while freeing the same. Afterwards, the seal returns into the initial state. The container contents are reliably sealed from entering contaminants.

IPC 1-7

B65D 47/20

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 03089325A2

Cited by

DE102009048476B3; CN102030138A; EP2308768A1; EP2420455A1; EP2420456A1

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DOCDB simple family (publication)

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