

Title (en)

Outlet nozzle for pressurized fluid including a flexible membrane sealing the nozzle outlet channel

Title (de)

Mit einer den Auslasskanal dichtenden, flexiblen Membrane versehene Auslassdüse für unter Druck gesetztes Fluid

Title (fr)

Buse de sortie pour fluide pressurisé comprenant une membrane flexible obturant le canal de sortie.

Publication

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Application

EP 97500208 A 19971128

Priority

AR P960105423 A 19961129

Abstract (en)

The present invention refers to some improvements in the outlet nozzles of a pressurized fluid including a flexible membrane (3) sealing said nozzle outlet channel (3b); this nozzle being applied to the outlet of a fluid contained in a package and distributed under a positive pressure; the nozzle having a plate (1) with an outlet hole (1a) communicating with an outlet duct (1b), said plate (1) having the collecting channels (1d) and eventually forming the outlet vortex of its propelled fluid, the plate (1) being retained by an insert (2) laterally defining, at least, a path for said package content. The improvements consist in the interposition of a flexibly resilient membrane (3) between the internal face of said plate (1) and the opposite face of the insert (2) facing it; said membrane having, at the central part of its active face leaning against the plate internal face (1c) with said outlet hole, a dome-flared projection (3c) defining an additional recess at the membrane opposite face; said membrane being pressurized against the plate internal face (1c), and respectively against the free face of said insert (2b) by said insert (2) body by determining at the areas of this so pressurized membrane, a hermetical seal, at its respective two opposite faces; said dome-flared projection (3c) seating against the internal walls of the outlet channel (1b) provided on said plate (1), by defining an annular sealing against them, and being selectively movable by the content pressure incident against the membrane (3) active face and forming said membrane (3) against the insert surface, an air-sealed chamber compressible by the distortion of said flared projection.

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FR2792552A1; WO0062939A1; US2015166081A1; EP1331036A1; DE19919461A1; US7484678B2; US7854352B2; US6722585B1

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