

Title (en)
DEHYDRATING AND RECLOSABLE HINGED PLUG-LID WITH TAMPER INDICATOR AND COMPENSATION DEVICE

Title (de)
DEHYDRIERENDER UND WIEDER VERSCHLIESSBARER SCHARNIERDECKEL MIT FÄLSCHUNGSANZEIGE UND KOMPENSATIONSVORRICHTUNG

Title (fr)
BOUCHON-COUVERCLE DESHYDRATANT, REFERMABLE, A CHARNIERE, A TEMOIN D'EFFRACTION ET A DISPOSITIF DE COMPENSATION

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Application
EP 07871851 A 20071213

Priority
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• FR 0610861 A 20061213

Abstract (en)
[origin: FR2909977A1] The dehydrating and reclosable stopper-lid (1) that is integrally or mechanically hinged on a tubular container (2) for conditioning moisture sensitive products such as pastille and tablets, comprises a sealing unit (4) for open end of the container, a dehydrating unit, a fixation unit placed between the sealing unit and the open end of tubular container, a witness tampering, and a compensation unit (3) for maintaining the conditioned product. The compensation unit is conical, truncated, polyedric or truncated polyhedral shaped hollow device and positioned inside the sealing unit. The dehydrating and reclosable stopper-lid (1) that is integrally or mechanically hinged on a tubular container (2) for conditioning moisture sensitive products such as pastille and tablets, comprises a sealing unit (4) for open end of the container, a dehydrating unit, a fixation unit placed between the sealing unit and the open end of tubular container, a witness tampering, and a compensation unit (3) for maintaining the conditioned product. The compensation unit is conical, truncated, polyedric or truncated polyhedral shaped hollow device and positioned inside the sealing unit, and comprises a large annular base and a small parallel base on the large base. The coaxially packed products are contacted with the small base and then contacted to the large base by a deformable connection device under a mechanical pressure. The deformable connection device has capacity to recover its initial form when the pressure is eliminated, and comprises a deformable helix enrolling on a fictitious and coaxial cone to the axis of the device and appearing as a truncated or conical spring and a deformable tab appearing as one of the side edges of the factious polyhedron in which the device is registered or belonging to the fictious surface of a cone or a cone trunk. The compensation unit part contacting with the packed product has ratio of the diameters of 0.1-0.6. The deformable connection device is formed by irregularly distributed propellers and evenly distributed tabs using crimping, heading, setting, press fit, pasting, welding and injection molding from thermoplastic polymer materials. The dehydrating unit is constituted by a housing present on the bottom of the stopper lid. The housing contains a dehydrating agent with silica gels, molecular filters or other dehydrating products that are present in a powdery form and that contains a capsule made of a dehydrating polymeric material containing dehydrating fillers. The fixation unit is present in the form of ring, band or doughnut type, and is connected to the container by press fitting, crimping, pasting and welding.

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Citation (search report)
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