

Title (en)
TAMPERPROOF CAP FOR SEALING BOTTLES USING A STRETCHABLE PLASTIC POLYMER MEMBRANE ON A HOLLOW FRAME WITHIN A PREFORMED RIGID COVER

Title (de)
MANIPULATIONSSICHERE KAPPE ZUM VERSCHLIESSEN VON FLASCHEN UNTER VERWENDUNG EINER DEHNBAREN KUNSTSTOFFPOLYMERMEMBRAN AN EINEM HOHLEN RAHMEN INNERHALB EINER VORGEFORMTEN STARREN ABDECKUNG

Title (fr)
BOUCHON INVOLABLE POUR BOUTEILLES, COMPRENANT UNE MEMBRANE POLYMERE EN PLASTIQUE ETIRABLE SUR UNE STRUCTURE CREUSE DANS UNE ENVELOPPE RIGIDE PREFORMEE

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Application
EP 06807056 A 20061006

Priority
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• IT SV20050033 A 20051011

Abstract (en)
[origin: WO2007042484A2] A cap for hygienic sealing of bottles (1) made of glass or another equivalent material, for drinkable liquids, characterized in that it is essentially comprised of a closed bottom cylindrical, i.e. cup-shaped, aluminum sleeve (2), with the edge (2c) of its open bottom side folded a few millimeters inwards to form an angle of 90°, an insert (3), preferably made of a rigid or semirigid elastic plastic material, which is received with the diameter of its external lower section adhering within said sleeve (2), and which is composed of a lower hollow cylindrical base (3a) possibly having different outside diameters along its external generatrices, which insert (3) extends as a truncated cone (3b), also having a hollow shape, tapering upwards and towards its axis of symmetry, the plane orthogonal thereto at the minimum diameter, i.e. at the distal open end, being substantially far from the closed bottom of the sleeve (2) and whose tapered wall has two or more elongate and vertical apertures (4) formed therein, preferably equally spaced and parallel to its generatrices, whereas the sectors (4a) delimited by said apertures (4) have surfaces whose developed shape is a rectangular or trapezoidal parallelepiped, and are integral with the cylindrical base (3a), which sectors are designed to elastically open and depart from the longitudinal axis of the cap, and also said cap is further characterized by a stretchable plastic membrane (5) which is stretched to - 1 - externally cover, as a hood, the truncated cone-shaped section (3b) of said insert (3) as well as its top opening (3c), by an elastic plastic ring (5a) or toroidal member for clamping said hood-like stretched membrane (5) against a special housing (5b), complementary to the ring (5a), which is formed in the outer wall of the cylindrical section (3a) of the insert (3), and also by an additional plastic structure (6), which is also concentric with the sleeve (2) and sealingly occupies at least its closed bottom, as a seal, and possibly even the whole or a portion of its cylindrical section (2a), which has such a shape as to both ensure adhesion against the sleeve (2) and liquid tightness of the cap at both internal and external edges of the opening or mouth of the bottle (1), and finally by suitable means for securing said cap to the bottle (1), which are located at the closed bottom of the sleeve (2) above the insert (3).

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