CLAIMS

1. Drop dispensing head comprising an insert with a hollow body, a delivery end-piece as an extension of said body that is pierced with a central channel leading to an expulsion orifice, and an anti-bacterial filtering membrane partially hydrophilic and partially hydrophobic that is mounted across said insert at the base of said end-piece in order to allow the passage of a liquid in the direction of delivery and, in the reverse direction, the passage of air required to enter in compensation after a delivery of liquid, said insert containing a porous pad regulating the flow of liquid passing through it in the direction of said membrane, characterized in that the insert (4) ends beyond said pad, on the side opposite to the delivery end-piece, with a base forming longitudinal arches (13) supporting a central pellet (11) which make between them passageways that are open to a radial flow of air out of the dispensing head.

2. Drop dispensing head according to Claim 1, characterized in that the arches (13) are three in number, placed angularly at equal distances from one another about the axis of the neck of the bottle.

3. Drop dispensing head according to Claim 1 or 2,characterized in that said central pellet (11) is centred in the axis of the insert so as to leave an open space for the passage around it of the air arriving from the dispensing head while forming an obstacle to a direct axial jet leaving the insert.

4. Drop dispensing head according to any of Claims 1 to 3, characterized in that the arches (13) have a height of between 1 and 5 mm, preferably between 2 and 4 mm.

5. Drop dispensing head according to any of Claims 1 to 4, characterized in that the porous pad is a microporous pad made of

hydrophobic material in the form of a felt having an equivalent pore diameter of between 20 and 120 μm.

6. Drop dispensing head according to any of Claims 1 to 5, characterized in that the distance between the top face of the porous pad (8) and the membrane (7) is higher than 2 mm, and preferably higher than or equal to approximately 3 mm.

7. Drop dispensing head according to the next preceding Claim, characterized in that the distance between the top face of the porous pad (8) and the membrane (7) is between 4 and 10 mm, preferably between 5 and 9 mm .

8. Drop dispensing head according to any of Claims 1 to 7, characterized in that the porous pad (8) is made of low-density polyethylene.

9. Drop dispensing head according to any of the preceding Claims, characterized in that the outer surface of the insert (4) is fitted with a plurality of axially distributed *o*-rings.

10. Drop dispensing head comprising a reservoir with an elastically deformable wall that can be reversed by letting air into said reservoir through a dispensing head according to one of the preceding claims, through which the liquid is delivered under the effect of a pressure applied against said wall, in which said dispensing head is mounted in a sealed manner by the insert in the neck of the bottle, in communication with said reservoir, and in which the anti-bacterial filtering membrane, partially hydrophilic and partially hydrophobic, is mounted across said insert at the base of said end-piece, in order to allow the passage of the liquid in the direction of delivery and, in the reverse direction, the passage of air required to enter the bottle in compensation after a delivery of liquid, characterized in that the base of the insert (4) ends inside said reservoir with arches providing passageways for a radial circulation towards the

periphery of the reservoir for the air entering the bottle after passing through said pad .

11. Bottle according to the next preceding claim, characterized in that the insert (4) is mounted in the neck (10) of the bottle with its base which extends to a narrowing portion (20) of the peripheral wall of the bottle so that the entering air, which is directed radially to the peripheral wall of the bottle due to obstruction by the central pellet, is guided in a laminar flow along said peripheral wall of the bottle.

12. Bottle according to Claim 10 or 11, characterized in that the insert (4) is assembled in the bottle by force-fitting inside the neck (10) of the bottle and in that it comprises on its top edge a ring (14) of larger diameter resting against the top edge of the neck (10) of the bottle so as to ensure a good positioning of said insert (4) in said neck (10).

13. Bottle according to any of Claims 10 to 12, characterized in that the central pellet (11) is centred in the axis of the bottle so as to leave an open space for the air to pass radially to the peripheral wall of the bottle while forming an obstacle to a direct axial jet out of the insert.

14. Bottle according to any of the preceding claims, characterized in that it is used for conditioning a liquid containing compounds having surface-active properties, in particular a collyrium.

CLAIMS

1. Drop dispensing head comprising an insert with a hollow body, a delivery end-piece as an extension of said body that is pierced with a central channel leading to an expulsion orifice, and an anti-bacterial filtering membrane partially hydrophilic and partially hydrophobic that is mounted across said insert at the base of said end-piece in order to allow the passage of a liquid in the direction of delivery and, in the reverse direction, the passage of air required to enter in compensation after a delivery of liquid, said insert containing a porous pad regulating the flow of liquid passing through it in the direction of said membrane, characterized in that the insert (4) ends beyond said pad, on the side opposite to the delivery end-piece, with a base forming longitudinal arches (13) supporting a central pellet (11) which make between them passageways that are open to a radial flow of air out of the dispensing head.