CLAIMS

1. A bottle for packaging a preservative-free liquid to be dispensed drop by drop comprising a reservoir with a wall with elastic deformation that is reversible by letting air into the reservoir by means of a dispensing head through which the liquid is delivered under the effect of a pressure exerted against said wall, wherein said head for dispensing the liquid comprises a nacelle (13) by which it is fitted in a sealed manner into the bottle, in communication with said reservoir, and a dropper tip (1) extending it to the outside of the bottle which is pierced with a central channel leading to an orifice for expulsion of the liquid, and wherein a bacterial filtering membrane (6), mounted on the base of said dropper tip, between the latter and said nacelle, is interposed across the flow of the air required to enter the bottle after a dispensing of liquid, the bacterial filtering membrane is partially hydrophilic and partially hydrophobic, characterized in that said dropper tip selectively, to the exclusion of said nacelle, is made of a material containing a bactericidal agent having effect in the prevention of a bacterial proliferation on the surface of said tip, and wherein into the central channel of the tip, a core is inserted arranging a plurality of sub-channels for the expulsion of the liquid, the core (7) inside the tip is a porous sintered thermoplastic material.

2. The bottle as claimed in claim 1, characterized in that the body (12) of the tip is made of a material containing as a bactericidal agent an ion-bearing polymer which is uniformly distributed throughout its mass.

3. The bottle as claimed in claim 2, characterized in that the bactericidal ions are silver ions.

4. The bottle as claimed in claim 2, characterized in that the proportion of polymer bearing ions with a bactericidal effect in the material of the tip is between 1 and 10% by weight.

5. The bottle as claimed in claim 4, characterized in that the proportion of polymer bearing ions with a bactericidal effect in the material of the tip is between 2 and 5% by weight.

6. The bottle as claimed in claim 1, characterized in that said core inside the tip is made of a material comprising a bactericidal agent based on a chlorinated phenolic compound.

7. The bottle as claimed in claim 6, characterized in that the material forming said core (7) contains as a bactericidal compound 5-chloro-2-(2,4-dichlorophenoxy)phenol, or triclosan.

8. The bottle as claimed in claim 1, characterized in that said sub-channels are at least two in number, evenly distributed about the axis of said core.

9. The bottle as claimed in claim 8, characterized in that said sub-channels are four in number.

10. The bottle as claimed in claim 1, characterized in that the porous sintered thermoplastic material is based on polyethylene.

11. The bottle as claimed in claim 1, characterized in that the porous material has a mean pore dimension between 0.1 and 0.2 mm (100 and 200 μm).

12. The bottle as claimed in claim 1, characterized in that the terminal portion of the expulsion channel of the external main body of the tip and the core made of porous material have a cylindrical shape, the cylindrical shape of the terminal portion of the expulsion channel conforming to the cylindrical shape of the core made of porous material.

13. The bottle as claimed in claim 1, characterized in that the terminal portion of the tip is made by overmolding of the porous material constituting said core.

14. The bottle as claimed in claim 1, characterized in that it comprises, at the base of the central channel, a peripheral boss interacting with a matching peripheral groove formed at the base of said core for the attachment by elastic snap-fitting effect of said core into said channel.

15. The bottle as claimed in claim 1, characterized in that it is used for the packaging of an ophthalmic solution with no preservative.