Claims

1. A bottled water dispenser (1) with a system for treating water in a bottle (4) with UV radiation to disinfect all water and air in the bottle (4), containing a water intake finger (5) equipped with a source of UV radiation (25) and configured to open the bottle (4) sealed by a cap (6) by pushing a valve (7) installed in the centre of the cap (6) inside to the bottle (4) or by rupturing this valve by the water intake finger (5), wherein a semiconductor LED is used as the source of UV radiation (25), the semiconductor LED is installed in a recess (24) made at an end face of the water intake finger (5), so that when the bottle (4) is opened with the water intake finger (5) and the end face of the water intake finger (5) is entering the bottle (4), the source (25) is placed inside the bottle (4), and the radiation of the source (25) is directed towards the water surface and towards the walls of the bottle, and wherein the semiconductor LED is protected by a quartz glass (29) covering the recess (24).

2. The dispenser according to claim 1, additionally comprising a frame structure (31) fixed on the end face of the water intake finger (5).

3. The dispenser according to claim 2, wherein the frame structure (31) is made in the form of rods (32) forming a pyramid, the top of which is located on the axis of the water intake finger (30), above its end face surface.

4. The dispenser according to claim 3, wherein a number of the rods (32) forming the pyramid is at least three.

5. The dispenser according to claim 1, wherein an upper part (34) of the water intake finger (33) is made of metal.

6. The dispenser according to claim 1, wherein the quartz glass (29) is installed in the recess (24) below the upper surface of the water intake finger (5).

7. The dispenser according to claim 1, additionally comprising a water intake tube (71), and wherein the water intake finger (70) is provided with a channel (72) made in such a way that the end of the water intake tube (71) can pass through this channel (72) inside the bottle (4), while the length of the water intake tube (71) is sufficient for the end of the intake tube (71) to reach the bottom of the bottle (4).