Claims

1. A removal system (1) with an extraction head (2) that may be placed onto an opening of a bottle (3), wherein the extraction head (2) has a closing means for closing the opening of the bottle (3), **characterized in that** in the extraction head (2), a tube (5) is mounted such that when the extraction head (2) is placed onto the opening, the tube (5) projects into the bottle (3) and fluid (4) may be removed from the bottle (3) via the tube (5), and that an actuation mechanism is provided, by means of which the mounting of the tube (5) in the extraction head (2) may be released.

2. The removal system (1) according to claim 1, characterized in that the extraction head (2) has locking means that secure the tube (5) in the extraction head (2) in a locking position.

3. The removal system (1) according to claim 2, characterized in that the locking means may be moved into a release position by means of the actuation mechanism, in which they release the tube (5).

4. The removal system (1) according to claim 3, characterized in that the locking means are formed by balls (19) that are displaceably mounted in bore holes (20) of a guide channel (14), the tube (5) being able to be guided inside the guide channel (14).

5. The removal system (1) according to claim 4, characterized in that, in the locking position, the balls (19) are pressed against the tube (5) with a pressing force, by means of which the tube (5) is secured in place, and in that, in the release position, the balls (19) are released from the tube (5).

6. The removal system (1) according to any one of claims 4 or 5, characterized in that in the guide channel (14), bore holes (20) arranged equidistant in circumferential di-

rection extending in radial direction are provided, wherein a ball (19) is guided in each bore hole (20).

7. The removal system (1) according to claim 6, characterized in that each bore hole (20), at its opening out in the guide channel (14), is constricted to a diameter that is smaller than the diameter of the balls (19) guided in the guide channel (14).

8. The removal system (1) according to any one of claims 4 - 7, characterized in that the bore holes (20) and balls (19) are respectively formed identically and are oriented in a plane extending perpendicular to the longitudinal axis of the guide channel (14).

9. The removal system (1) according to any one of claims 4 - 8, characterized in that the guide channel (14) is displaceable relative to the closing means (8).

10. The removal system (1) according to any one of claims 4 - 9, characterized in that the guide channel (14) is a component of a head piece (10) that is displaceable relative to the closing means (8).

11. The removal system (1) according to any one of claims 9 or 10, characterized in that, in a locking position of the closing means (8) relative to the guide channel (14), positioning means on the closing means (8) press the locking means in the bore holes (20) against the tube (5) and secure it inside the guide channel (14).

12. The removal system (1) according to claim 11, characterized in that, in a release position of the closing means (8) relative to the guide channel (14), the positioning means are out of engagement with the locking means, such that the tube (5) is released from the guide channel (14).

13. The removal system (1) according to claim 10, characterized in that the actuation mechanism is a spring mechanism.

14. The removal system (1) according to claim 13, characterized in that the head piece (10) is held in the release position relative to the closing means (8) by means of the spring force of a spring (16).

15. The removal system (1) according to claim 14, characterized in that the transition into the locking position occurs by pressing the head piece (10) onto the closing means (8) against the spring force of the spring (16).

16. The removal system (1) according to any one of claims 1 - 12, characterized in that the closing means (8) forms the actuation mechanism.

17. The removal system (1) according to any one of claims 4-12, characterized in that the closing means (8) is implemented in the form of a screw top.

18. The removal system (1) according to claim 17, characterized in that the balls (19) are released by an upward movement of the screw top.