Claims

1. A securing device for the placement of a tapping armature on a tapping neck formed integrally on a container wall of a plastic container, the tapping armature having an armature housing comprising a screw flange formed concentrically with a plastic inlet neck on said inlet neck, the screw flange having an internal thread for being screwed to an external thread formed on a threaded extension of the tapping neck in such a manner that the tapping neck engages into an annular neck receiving space formed between the inlet neck and the screw flange, a securing ring being disposed between the container wall and the screw flange, the securing ring having a fixing means for fixing it to the screw flange and a locking means for connecting it to the container, the securing ring having locking protrusions for forming the locking means which are disposed on an inner circumference and directed radially inward and whose locking ends for locking with a stop means formed on the container are disposed on a locking circumference, whose diameter D is greater than the diameter d of the external thread of the tapping neck or equal to said diameter d, wherein
in order to set a defined mounting torque an axial stop for coming into contact with a front end of the tapping neck is formed in the neck receiving space.

2. The securing device according to claim 1,
wherein
the stop means is formed on a neck base of the tapping neck formed adjacent to the container wall.

3. The securing device according to claim 2,
wherein
the neck base is realized as a collar formed in the area of transition from the container wall to the threaded extension of the tapping neck,

said collar

having latching protrusions distributed across its circumference, each latching protrusion having a latching surface which extends substantially parallel to a longitudinal axis of the tapping armature.

4. The securing device according to claim 3,

wherein

the latching protrusions are realized as latching ramps having a ramp surface which rises from the circumference of the neck base and which forms a latching shoulder with the latching surface.

5. The securing device according to any one of claims 1 to 4,

wherein

the length of the tapping neck, the design of the external thread on the tapping neck, and the distribution of the latching protrusions at the circumference of the neck base are selected such that when the axial stop of the armature housing comes into contact with the front end of the tapping neck with a defined preload force, at least one locking protrusion of the locking means of the securing ring elastically latches behind the latching surface of a latching protrusion.

6. The securing device according to any one of claims 1 to 5, wherein in order to form a radially acting sealing means, a sealing space is formed which has an inner sealing surface, which is formed by an outer wall of the inlet neck, and an outer sealing surface, which is formed by an inner wall of the tapping neck, and which is provided with an O-ring seal accommodated in the sealing space so as to come into contact with the inner sealing surface and with the outer sealing surface.

7. The securing device according to claim 6,

wherein

for forming the sealing space, a circumferential recess is formed at an

inner opening edge at the front end of the tapping neck in such a manner that a limiting surface which axially limits the sealing space and which is axially recessed relative to a stop surface which serves to come into contact with the axial stop of the neck receiving space is formed by the recess.

8. The securing device according to claim 6 or 7,
wherein
the inner sealing surface and/or the outer sealing surface conically taper in the axial direction in such a manner that the height of the of the sealing space decreases in the direction of the tapping neck.

9. The securing device according to any one of claims 1 to 8,
wherein
the fixing means has a driver pocket formed at a front side of the securing ring, said front side facing the screw flange, said driver pocket serving to be engaged by a driver tab, which is formed on the screw flange, in such a manner that the tapping armature and the securing ring are disposed coaxially when driver tab is engaged in the driver pocket in a form-fitting manner.

10. The securing device according to claim 9,
wherein
in addition to the driver pocket, the securing ring has at least one other driver element which allows a torque to be transmitted from the screw flange to the securing ring in the mounting direction only.

11. The securing device according to claim 10,
wherein
the driver element has a radial stop surface serving to come into contact with a web flank of a driver web which is formed on the screw flange and which extends in the axial direction.

12. The securing device according to claim 11,
wherein
the driver element has a latching protrusion for axially latching on a mating latching element formed on the screw flange so as to fix the securing ring to the screw flange in a coaxial mounting position.

13. The securing device according to any one of claims 1 to 12,
wherein
the driver pocket is configured as a tamper-evident element in such a manner that a visible wall connected to a base wall formed on the securing ring via a predetermined breaking means is provided, a receiving space for the driver tab of the screw flange being formed between the base wall and the visible wall so as to form the driver pocket

14. The securing device according to claim 13,
wherein
the visible wall has at least two visible-wall portions connected to the base wall via the predetermined breaking means, the front visible-wall portion in the dismounting direction of the screw flange having a stop edge for the driver tab and the rear visible-wall portion in the dismounting direction having a stop edge for a following driver web of the screw flange in the dismounting direction.