

Pill dispenser

Field of the invention

The invention relates to a pill dispenser which has a sleeve and a magazine guided in said sleeve for receiving a stack of pills, which for filling purposes can be partially pushed out of the sleeve in the longitudinal direction of the magazine against the force of a spring and receives a cap at its upper end in a pivotally adjustable manner, which cap is pivotally adjustable against the force of a spring from a rest position into a dispensing position and supports a decorative head.

Description of the prior art

Such pill dispensers are known from the AT 387 760 A, AT 362 073 A and US 4 311 251 A, for example. The magazine can be pushed out of the sleeve for filling purposes and is then pushed back into the sleeve after filling. At the upper end, the magazine receives in a pivotally adjustable manner a cap having a decorative head of any design. The cap has an ejector tongue in the region of the back of the decorative head and is pivotally adjustable with the decorative head against the force of another spring from a rest position into a dispensing position. When the cap is pivoted with the decorative head, the ejector tongue pushes the topmost pill of the pill stack forward out of the magazine for removal. When this pill is removed, the next pill of the pill stack is pushed in the direction of the cap into a removal chamber. The decorative head is either injection-molded onto the cap or fitted onto the cap in the longitudinal direction of the magazine. If the decorative head is injection-molded thereon, a high material input is required for production. This is also the case with the well-known decorative heads that can be fitted onto the cap, but these have the additional disadvantage that the decorative heads are often only inadequately fitted onto the cap. Such pill dispensers are often used by children for sweets in pill form. Therefore, even in the case of improper use, the user

should not be endangered by decorative heads that come off the cap unintentionally.

Summary of the invention

5 The invention is thus based on the object of creating a pill dispenser which is held securely on the cap and in which a decorative head fitted onto a cap can be manufactured preferably with the least possible material input.

10 The invention solves the set object in that the cap has a transverse guide onto which the decorative head, which is formed from at least two parts, in particular at least two shells, is pushed transversely to the longitudinal direction of the magazine.

Where high strength is required, the decorative head may comprise at least two parts made of solid material. The two-shell design of the decorative head ensures that the decorative head can be manufactured with as little material as possible. The transverse guide ensures that the decorative head cannot be pulled off the cap and is therefore securely held on the cap. In this case, the guide is aligned transversely to the longitudinal direction of the magazine. During assembly, both shells of the decorative head are pushed onto the cap from the front and back or from the left and right, and are then pushed together under the cap socket, joined together, in particular latched, glued, welded or the like, and engage in the transverse guide, thus ensuring a secure bond between cap and decorative head.

25 The transverse guide can, for example, include holes in the cap in which pins of the decorative head shells engage. However, because a robust connection is guaranteed, it is particularly preferred if the cap has a retracted cap neck at the head end between a head piece and a cap body, which forms the transverse guide.

If the two shells of the two-shell decorative head are equipped with elastic projections that engage in the transverse guide, this results in particularly advantageous assembly conditions, because the decorative head and cap can then simply be

snapped together. For this purpose, the elastic projections can have latching lugs projecting towards the end of the transverse guide, which latching lugs engage in corresponding grooves in the cap neck when the shells are in the assembly position.

- 5 In order to ensure that the two shells of the decorative head are joined together cleanly and securely and that they cannot be moved against each other in their abutting plane, it is suggested that the two shells of the two-shell decorative head interlock on the abutting side via a rebate and overlap by the rebate depth.

- 10 Preferably, the two shells of the two-shell decorative head enclose the cap at least as much as they completely enclose the cap neck with the resilient projections. This also ensures a secure hold of the decorative head on the cap. In order to avoid impairing the ejection function, it is recommended that the cap and the decorative head have a recess in the area of the back of the decorative head into which an ejector tongue protrudes.

15 Brief description of the invention

The subject matter of the invention is shown by way of example in the drawings, wherein:

- Fig. 1 shows a pill dispenser in oblique view with the decorative head removed,
 Fig. 2 shows the pill dispenser in another oblique view with only one decorative
 20 head shell removed,
 Fig. 3 shows the cap with decorative head of the pill dispenser in partially sectional side view, and
 Fig. 4 shows the cap with decorative head from Fig. 3 in section according to line IV-IV.

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Detailed description of the preferred embodiments

The pill dispenser 1 comprises a sleeve 2 and a magazine 3 guided in this sleeve 2 to hold a stack of pills. The magazine 3 can be partially pushed out of the sleeve 2 in the longitudinal direction of the magazine 4 against the force of a spring 5 for filling purposes. At the upper end, magazine 3 accommodates a cap 6 in a pivotally adjustable manner, which is pivotally adjustable against the force of another spring 7 from a rest position into a dispensing position (dot-dash line in Fig. 3) and supports a decorative head 8. If the cap 6 with the decorative head 8 is pivoted, a pill is pushed forward out of the magazine underneath the decorative head chin for removal. Once this pill has been removed, the next pill in the pill stack is pushed forward by the spring 5 in the direction of cap 6.

The cap 6 has a transverse guide 9, onto which the decorative head 8, which is formed as a double shell, is pushed transversely to the longitudinal direction of the magazine 4. For this purpose, the cap 6 has a retracted cap neck 12 between a head part 10 and a cap body 11, which forms the transverse guide 9. To fix the decorative head 8 on the cap 6, the two shells 13, 14 of the two-shell decorative head 8 are equipped with elastic projections 15 which engage in the transverse guide 9 between head piece 10 and cap body 11. The two shells 13, 14 of the two-shell decorative head 8 almost completely enclose the cap 6. The cap neck 12 is also completely enclosed by the two shells 13, 14, namely by their elastic projections 15.

The elastic projections 15 have latching lugs 16 which protrude at the ends towards the transverse guide 9 and engage in a latching manner in corresponding grooves 17 of the cap neck 12 in the assembly position of the shells 13, 14. Alternatively, the latching lugs could also be arranged on the cap neck and the projections have the corresponding grooves.

The two shells 13, 14 of the two-shell decorative head 8 interlock on the joint side via a fold 18 and overlap by the fold depth 19. The cap 6 and the decorative head 8 have a recess 20 in the area of the back of the decorative head, into which an ejector tongue 21 protrudes for pushing the respective uppermost pill out of the magazine 4 in the above-mentioned manner.

Claims

1. Pill dispenser (1), which has a sleeve (2) and a magazine (3) guided in this sleeve (2) for receiving a stack of pills, which for filling purposes can be partially pushed out of the sleeve (2) in the longitudinal direction (4) of the magazine
5 against the force of a spring (5) and receives a cap (6) at its upper end in a pivotally adjustable manner, which cap (6) is pivotally adjustable against the force of a spring (7) from a rest position into a dispensing position and supports a decorative head (8), characterized in that the cap (6) has a transverse guide (9) onto which the at least two-part, in particular at least two-shell, decorative head (8) is pushed
10 transversely to the longitudinal direction (4) of the magazine and joined together.
2. Pill dispenser according to claim 1, characterized in that the cap (6) has a retracted cap neck (12) at the head end between a head part (10) and a cap body (11), which cap neck (12) forms the transverse guide (9).
3. Pill dispenser according to claim 1 or 2, characterized in that the two parts
15 (13, 14) of the two-part decorative head (8) are provided with elastic projections (15) which engage in the transverse guide (9).
4. Pill dispenser according to claim 3, characterized in that the elastic projections (15) have latching lugs (16) projecting at the ends towards the transverse guide (9), which latching lugs (16) engage in a latching manner in corresponding
20 grooves (17) of the cap neck (12) in the assembly position of the parts (13, 14).
5. Pill dispenser according to one of claims 1 to 4, characterized in that the two parts (13, 14) of the two-part decorative head (8) interlock on the abutting side via a fold (18) and thereby overlap by the fold depth (19).
6. Pill dispenser according to one of claims 1 to 5, characterized in that the
25 two parts (13, 14) of the two-part decorative head (8) at least largely surround the cap (6).

7. Pill dispenser according to one of claims 2 to 6, characterized in that the two parts (13, 14) of the two-part decorative head (8) completely enclose the cap neck (12).

5 8. Pill dispenser according to one of claims 1 to 6, characterized in that the cap (6) and the decorative head (8) have a recess (20) in the region of the back of the decorative head (8), into which an ejector tongue (21) projects.