

Claims

1. A safety cover (1) for coupling with an injection device, comprising
 - a base (2),
 - a cover (3) with an outer housing (4) and an inner housing (5) and
 - a hinge element (6),wherein the base (2) has a needle mount (7) which is configured for directed receiving of an injection needle along a receiving axis (8), wherein the outer housing (4) is coupled with the inner housing (5) relative to a longitudinal axis (9) of the cover (3) in a coaxial arrangement and mounted at the inner housing (5), at least partially surrounding the inner housing (5), wherein the cover (3) is connected by the hinge element (6) with the base (2), so that the cover (3) is pivotable relative to the base (2) about a pivot axis (10) formed by the hinge element (6) and oriented perpendicular to the receiving axis (8) so that that the cover is pivotable from an initial position in a first pivoting direction into a treatment position, wherein the longitudinal axis (9) is aligned parallel to the receiving axis (8) when the cover (3) is in the initial position, so that an injection needle received in the needle mount (7) is enclosable by the cover (3), wherein the longitudinal axis (9) of the cover (3) is pivoted relative to the receiving axis (8) when the cover (3) is in the treatment position, so that an injection needle received in the needle mount (7) is available for use, wherein the outer housing (4) is twistable relative to the inner housing (5) at least in one rotation direction about the longitudinal axis (9) of the cover (3), wherein the outer housing (4) has at least one recess (11) and the base (2) has at least one locking device (12) corresponding with the recess (11), wherein the locking device (12) projects radially outward relative to the receiving axis (8) of the needle mount (7) and is configured engage the

recess (11) by positive form locking and block a further twisting of the outer housing (4) relative to the inner housing (5) when the outer housing (4) is in a locking position where the outer housing (4) is twisted with relative to the inner housing (5),

characterized in that

the base (2) includes at least one locking device (12) that engages the outer housing (4) by positive form locking at least when the outer housing (4) is in a starting position which is assumed by the outer housing (4) at least when the cover (3) in its initial position, so that a twisting of the outer housing (4) relative to the inner housing (5) is blocked by the locking device (12),

wherein the outer housing (4) is displaceable relative to the base (2) and the cover (3) is transferrable into an end position,

wherein the engagement of the locking device (12) with the outer housing (4) is terminated and a twisting of the outer housing (4) relative to the inner housing (5) is enabled when the cover (3) is in the end position.

2. The safety cover (1) according to claim 1, characterized in that the base (2) includes the locking device (12), preferably in the form of a radially outward projecting pin (27), which is configured for the positive form locking engagement of the recess (11) of the outer housing (4) when the outer housing (4) is in its locking position and also for the positive form locking engagement of the outer housing (4) when the outer housing (4) is its initial position.
3. The safety cover (1) according to one of the preceding claims, characterized in that the outer housing includes at least one second recess (13) which is arranged for the positive form locking engagement of the locking device (12) of the base (2), wherein the two recesses (11, 13) of the outer housing (4) are preferably formed on the outer housing (4) offset by 180° relative to the longitudinal axis (9) of the cover (3).
4. The safety cover (1) according to claim 2 or 3, characterized in that the locking device (12) engages the second recess (13) by positive form

locking when the outer housing (4) is in its initial position and the locking device (12) engages the first recess (11) by positive form locking when the outer housing (4) is in its locking position.

5. The safety cover (1) according to one of the preceding claims, characterized in that the cover (3) is pivotable by the hinge element (6) about the pivot axis (10) in a second pivoting direction that is opposite to the first pivoting direction, beyond the initial position of the cover (3) into an end position of the cover (3), so that the displacement of the outer housing (4) relative to the base (2) is achieved.
6. The safety cover (1) according to one of the preceding claims, characterized by an interlocking mechanism (14) which includes a respective interlocking partner (15, 16) on the base (2) and on the cover (3), preferably at the inner housing (5), wherein the interlocking partners (15, 16) interlock with each other at least when the cover (3) is in its end position, so that the cover (3) is fixed in the end position.
7. The safety cover (1) according to one of the preceding claims, characterized in that a recess (13) of the outer housing (4) extends along the longitudinal axis (9) of the cover (3) from a proximal end (17) towards a distal end (18) of the cover (3), wherein preferably a length (19) of the second recess (13), measured parallel to the longitudinal axis (9), is at least 2.0 cm, preferably at least 3.0 cm.
8. The safety cover (1) according to one of the preceding claims, characterized in that the inner housing (5) has at least one recess (20) which extends along the longitudinal axis (9) of the cover (3) from a proximal end (17) in the direction towards a distal end (18) of the cover (3), wherein preferably a length (21) of the third recess (20), measured parallel to the longitudinal axis (9), is at least 2.0 cm, preferably at least 3.0 cm.

9. The safety cover (1) according to claims 7 and 8, characterized in that the recesses (13, 20) of the inner housing (5) and of the outer housing (4) have shapes and lengths (19, 21) corresponding to one another.
10. The safety cover (1) according to one of claims 7 to 9, characterized in that the recesses (13, 20) of the inner housing (5) and of the outer housing (4) are aligned overlapping one another when the cover (3) is in its initial position, so that an injection needle penetrates the recesses (13, 20) when the cover (3) is pivoted into its treatment position so that the injection needle is made available for use.
11. The safety cover (1) according to one of claims 7 to 10, characterized in that the recesses (13, 20) of the inner housing (5) and of the outer housing (4) are offset with respect to one another when the outer housing (4) is in its locking position, so that the cover (3) is prevented from moving from its initial position into its treatment position.
12. The safety cover (1) according to one of the preceding claims, characterized in that the base (2) has a radially projecting circumferential collar (25) configured to cooperate with a thread of an injection device, so that the safety cover (1) is threadable onto the injection device.
13. The safety cover (1) according to one of the preceding claims, characterized in that the locking device (12) and the hinge element (6) are arranged on the base (2) opposite one another relative to the receiving axis (8), wherein preferably both the locking device (12) and also the hinge element (6) are arranged respectively at an outer edge of the base (2).
14. The safety cover (1) according to one of the preceding claims, characterized in that the locking device (12) and the hinge element (6) are arranged at a distance (24) from one another, measured parallel to the receiving axis (8).
15. A safety cover (1) for coupling with an injection device, comprising

- a base (2),
- a cover (3) with an outer housing (4) and an inner housing (5),
and
- a hinge element (6),

wherein the base (2) has a needle mount (7) which is configured for directed receiving of an injection needle along a receiving axis (8), wherein the outer housing (4) is coupled with the inner housing (5) in relation to a longitudinal axis (9) of the cover (3) in a coaxial arrangement and mounted on the inner housing (5), at least partially surrounding the inner housing (5),

wherein the inner housing (5) is connected with the base (2) by the hinge element (6), so that the cover (3) is pivotable relative to the base (2) about a pivot axis (10) formed by the hinge element (6) and oriented perpendicular to the receiving axis (8), so that the cover is pivotable from an initial position in a first pivoting direction into a treatment position,

wherein the longitudinal axis (9) is aligned parallel to the receiving axis (8) when the cover (3) in the initial position, so that an injection needle received in the needle mount (7) is enclosable by the cover (3),

wherein the longitudinal axis (9) of the cover (3) is pivoted relative to the receiving axis (8) when the cover (3) in the treatment position, so that an injection needle received in the needle mount (7) is available for use,

wherein the outer housing (4) is twistable relative to the inner housing (5) at least in one rotation direction about the longitudinal axis (9) of the cover (3),

wherein the outer housing (4) has at least one recess (11) and the base has at least one pin (27) corresponding to the recess (11),

wherein the pin (27) projects radially outward relative to the receiving axis (8) of the needle mount (7) and is configured to engage the recess (11) of the outer housing (4) by positive form locking and block a further twisting of the outer housing (4) relative to the inner housing (5) when the outer housing (4) is in a locking position and twisted relative to the inner housing (5),

characterized in that

the outer housing (4) has at least one second recess (13),
wherein the pin (27) of the base engages the at least one second recess
(13) of the outer housing (4) when the cover (3) in its initial position, so
that the twisting of the outer housing (4) relative to the inner housing (5)
is blocked,
wherein the cover (3) is pivotable in a second pivoting direction opposite to
the first pivoting direction about the pivot axis (10) beyond the initial
position into an end position,
wherein the positive form locking of the pin (27) in the second recess (13)
of the outer housing (4) is terminated so that the twisting of the outer
housing (4) relative to the inner housing (5) is enabled when the cover
(3) is in the end position.