Claims

1. A swing handle arrangement with a locking function, comprising a swing handle (1), a frame (2), and a spindle arrangement (3), wherein the swing handle is connected to the spindle arrangement in a pivotable manner, and the spindle arrangement is connected to the frame in a pivotable manner, and wherein the swing handle arrangement also comprises an electric actuator (4), a shaft arrangement (5) of the electric actuator, and a latch (6) set in the frame (2), and wherein the swing handle comprises a latching surface (7),

wherein the latch (6) is arranged to be against the latching surface (7) of the swing handle in a locking position of the swing handle, and wherein the latch (6) and the latching surface (7) are thus arranged to establish the locking of the swing handle arrangement, which locking is releasable by the electric actuator (4) via the shaft arrangement (5) of the electric actuator,

characterized in that the swing handle arrangement further comprises a second shaft (8) with a cam (9), and the latch (6) has a groove (10), wherein, in the locking position of the swing handle arrangement, the cam (9) is in the groove, preventing a linear movement of the latch away from the latching surface (7) of the swing handle, wherein the locking is releasable by the electric actuator (4) via the shaft arrangement (5) of the electric actuator, by turning the second shaft (8) so that the cam (9) moves out of the groove (10).

2. The swing handle arrangement according to claim 1, **characterized** in that it comprises a spring arrangement (11) to push the latch in a direction opposite to said linear movement, in order to keep the latch against the latching surface (7) of the swing handle arrangement in the locking position of the swing handle, and wherein a tip part (12) of the latch comprises oblique surfaces (12A, 12B) in order to move the latch linearly away from and towards the frame (2) by turning the swing handle (1).

3. The swing handle arrangement according to claim 1, **characterized** in that the latch comprises a protrusion (13) by the side of the groove (10), on the side of the groove proximate to the tip part (12) of the latch.

4. The swing handle arrangement according to claim 1, **characterized** in that it comprises a locking element (14) to prevent, in its blocking position, the rotation of the second shaft (8), wherein the second shaft has a rotation barrier surface (15), and wherein the locking element (14) comprises a counter-surface arrangement (16) arranged to be against the rotation barrier surface in the blocking position of the locking element, wherein the swing handle arrangement comprises a spring (17) for pushing the locking element (14) towards the blocking position, and wherein the locking element (14) further comprises a guide surface (18) tp move the locking element (14) away from the blocking position when the swing handle (1) is being turned into its locking position.

5. The swing handle arrangement according to claim 4, **characterized** in that the rotation barrier surface (15) comprises two surfaces, and the second shaft comprises two notches (19) on opposite sides, the bottoms of the notches forming these two surfaces, and the counter-surface arrangement (16) comprises a groove (20) whose sides are against the rotation barrier surface (15) in the blocking position of the locking element (14).

6. The swing handle arrangement according to claim 4, **characterized** in that the second shaft comprises a hole whose side surface or side surfaces constitute the rotation barrier surface (15), and the counter-surface arrangement (16) comprises a protrusion whose sides are against the rotation barrier surface (15) in the blocking position of the locking element (14).

7. The swing handle arrangement according to claim 4 - 6, **characterized** in that the locking element (14) comprises a protrusion (21) whose end surface is the guide surface (18).

8. The swing handle arrangement according to any of the claims 1 to 7, **characterized** in that it comprises a second spring (22) to turn the second shaft (8) towards a position in which the cam (9) is in the groove (10) of the latch.

9. The swing handle arrangement according to any of the claims 1 to 7, **characterized** in that it also comprises a lock cylinder (23) arranged to provide a link to the second shaft (8) in order to turn it towards a position in which the cam (9) is off the groove (10) of the latch.

10. The swing handle arrangement according to any of the claims 1 to 8, **characterized** in that the shaft arrangement (5) of the electric actuator comprises a lever (24), and the second shaft (8) comprises a second cam (25), wherein the lever and the second cam are arranged to form a link to each other in order turn the second shaft by means of the electric actuator (4).

11. The swing handle arrangement according to claim 10, **characterized** in that the second shaft comprises a third cam (26), by which the lock cylinder (23) is arranged to form a link to the second shaft (8) in order to turn it towards a position in which the cam (9) is off the groove (10) of the latch.