Claims

1. A vertical sliding window (1) as a closure for an opening in an exterior wall of a building, wherein all superposed, movable window panes (2) of the sliding window (1) are an integral part of a single sliding sash (8), which for opening is lowered vertically downwardly as a whole, is completely or essentially completely counter sunk into a flat chamber (14) within a box (13), wherein the free lower edge of an insect screen (42), which is unwoundable from a shaft (43) installed above the closed sliding sash (8), is suspended or suspendable on the upper edge of the sliding sash (8), **characterized in that** a panel (46) made of a transparent material is provided in the upper area of the window opening to allow gap ventilation that is not impaired by driving rain.

2. The vertical sliding window (1) according to Claim 1, characterized in that a shaft (43), from which the insect screen (42) is unwoundable, is supported in the area of an upper, horizontal closure element (12), wherein the shaft (43) accommodating the insect screen (42) is preferably pretensioned by a spring element in a rotational direction such that the spring element seeks to wind up the insect screen (42).

3. The vertical sliding window (1) according to one of the preceding claims, characterized in that at least one shaft (37), from which a roller shutter (38), a roller blind, or a louver blind Is unwoundable, is supported in the area of the upper, horizontal closure element (12).

4. The vertical sliding window (1) according to Claim 3, characterized in that at least one guide groove for the guiding accommodation of each side edge of the roller shutter (38), roller blind, or louver blind is incorporated into each of the two lateral mullions (11) of the window casing (10), wherein the slotted openings of these two guide grooves lie in a shared vertical plane parallel to the plane of the vertical sliding sash (8), and face one another.

5. The vertical sliding window (1) according to Claim 4, characterized in that the lateral guide grooves for a roller shutter (38) are situated on the outer side (40) of the countersinkable sliding sash (8), and/or the lateral guide grooves for a

roller blind or a louver blind are situated on the inner side (41) of the countersinkable sliding sash (8).

6. The vertical sliding window (1) according to one of the preceding claims, characterized in that the panel (46) made of a transparent material is provided in the upper area of the window opening on the outer side.

7. The vertical sliding window (1) according to one of the preceding claims, characterized in that theat least one lowerable sliding sash (8) has a movable frame (3) that is connected to the glass pane(s), or is designed without a frame.

8. The vertical sliding window (1) according to one of the preceding claims, characterized in that the housing of the box (13) accommodating the lowered sliding sash (8) is not transparent, so that in any case the completely lowered sliding sash (8) is still visible along its upperedge strip; when the sliding sash (8) is completely lowered, the upper edge strip may preferablybe either completely lowered into the box (13), or protrudes upwardly from the box (13) at most by a narrow region, preferablyby a height of not more than 30 cm, preferablyby a height of not more than 20 cm, in particularby a height of not more than 10 cm.

9. The vertical sliding window (1) according to one of the preceding claims, characterized in that the box (13) accommodating the lowered sliding sash (8) is an integral part of a window casing (10), wherein the movable sliding sash (8) is guided in each position, wherein at least one guide groove or guide rail (9) for the guiding accommodation of each side edge of the lowerable sliding sash (8) is preferably incorporated into the two lateral sections of the window casing (10), and wherein the slotted openings of these two guide grooves or the two guide rails (9) preferably lie in a shared vertical plane parallel to the plane of the verticalsliding sash (8), and face one another.

10. The vertical sliding window (1) according to one of the preceding claims, characterized in that the box (13) accommodating the lowered sliding sash (8) has a further, flat chamber for accommodating insulation (30), in particular thermal and/or acoustic insulation (30).

11. The vertical sliding window (1) according to one of the preceding claims, characterized in that a drive (17) for raising and/or lowering the lowerable sliding sash (8) is situated in the chamber (14) of the box (13) accommodating the lowered sliding sash (8) or in a further flat chamber or chamber extension (20) of the box (13) that is parallelto this first chamber (14).

12. The vertical sliding window (1) according to Claim 11, characterized in that the drive (17) has at least one of the following drive elements:
    a) one or more vertical toothed rack(s) (26) that is/are connected or connectableto the lowerable sliding sash (8); and/or
    b) one or more vertical scissor-like drive(s) (19) that is/are coupled or coupleable to the lowerable sliding sash (8); and/or
    c) one or more vertical threaded spindle(s) that is/are connected or connectable to the lowerable sliding sash (8); and/or
    d) one or more vertical traction element(s) that is/are connected or connectable to the lowerable sliding sash (8).

13. The vertical sliding window (1) according to one of Claims 11 or 12, characterized in that the drive (17) has at least one energy converter for converting supplied auxiliary energy into a mechanical movement, for example an electric or hydraulic motor or a hydraulic or pneumatic cylinder.

14. The vertical sliding window (1) according to one of Claims 11 to 13, characterized in that the drive (17) of the sliding sashis coupled to control, regulation, and/or monitoring which according to predefined criteria automatically bring(s) about closing or partial or complete opening of the sliding sash (8), for example during deteriorating weather conditions, as an integral part of a central anti-burglary protection system upon leaving the building orliving space in question, or when there is a low oxygen level or increased humidity in the interior in question.