

E. & L. H. STANECKY.
WINDOW.

APPLICATION FILED JULY 30, 1909.

Patented Apr. 5, 1910.

2 SHEETS—SHEET 1.

954,356.

Fig. 1.

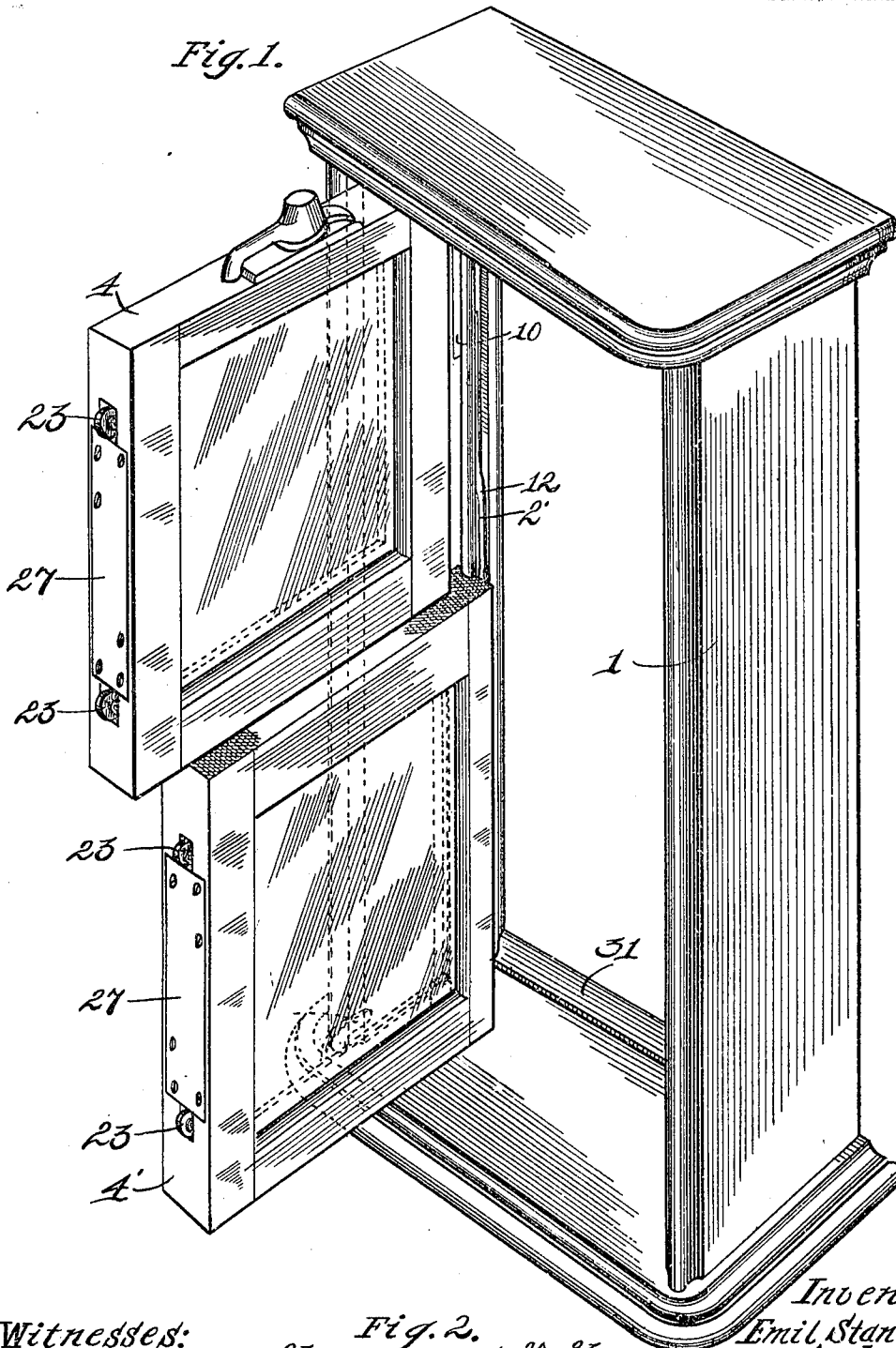
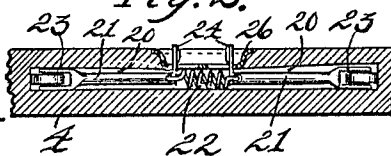


Fig. 2.



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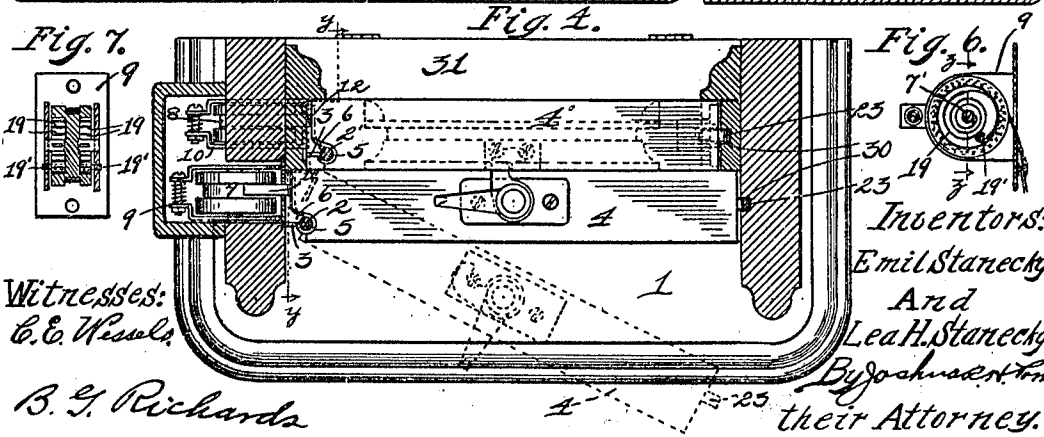
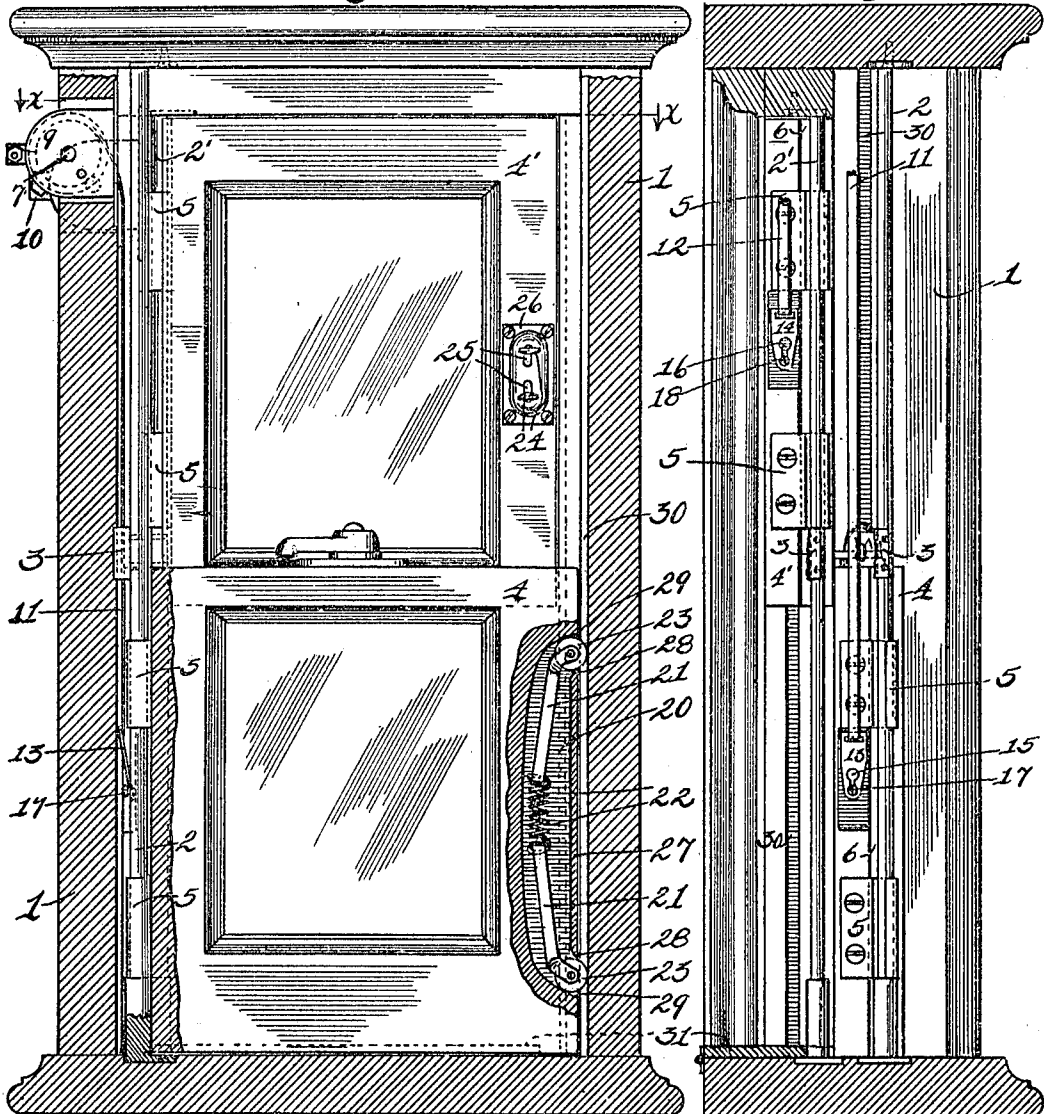
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2 SHEETS—SHEET 2.

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Fig. 3.

Fig. 5.



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UNITED STATES PATENT OFFICE.

EMIL STANECKY AND LEA H. STANECKY, OF CHICAGO, ILLINOIS.

WINDOW.

954,356.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed July 30, 1909. Serial No. 510,385.

To all whom it may concern:

Be it known that we, EMIL STANECKY and LEA H. STANECKY, citizens of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Windows, of which the following is a specification.

Our invention relates to improvements in windows and especially to that class of windows having vertically slidable sashes which are also adapted to be swung inwardly for cleaning or other purposes.

The object of our invention is to provide such a window which shall be simple in construction and efficient in operation.

Our invention consists in the combination and arrangement of parts hereinafter described and claimed.

Our invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of a window-frame and sashes embodying our invention and showing the sashes swung inwardly; Fig. 2, a section showing the latching means for the sashes; Fig. 3, an interior elevation of the frame and sashes partially in section; Fig. 4, a section on line *x x* of Fig. 3; Fig. 5, a section on line *y y* of Fig. 4; Fig. 6, a section illustrating a spring drum for balancing the sashes, and Fig. 7, a section on line *z z* of Fig. 6.

The window-frame 1 may be of any usual or desired construction. At one side of said frame and secured at top and bottom thereto, are two cylindrical guide rods 2 and 2' preferably having intermediate stiffening supports 3 secured in the side of the frame. As shown, the guide rod 2' is set nearer the center of the frame than rod 2. Lower and upper sashes 4 and 4' respectively are grooved at their outer corners to receive rods 2 and 2' and hinge members 5 are secured to said sashes and partially embrace said guide rods, so as to render the sashes free to slide on said rods and to be swung inwardly thereon. The hinge members 5 are left open at 6 so as to pass the supports 3 when the sashes are in closed position.

Spring drums 7 and 8 are mounted in housings 9 and 10 respectively secured in suitable openings in the upper portion of the window-frame. Each of said drums is provided with a central annular groove in which flexible bands 11 and 12 are adapted

to be wrapped. At their lower edges bands 11 and 12 carry fastening clips 13 and 14 provided with securing notches 15 and 16 adapted to take over buttons 17 and 18 secured to the ends of sashes 4 and 4'. At each end the drums 7 and 8 are provided with chambers containing spiral springs 19 secured at their outer ends to pins 19' carried by said drums and at their inner ends to shafts 7' upon which said drums are mounted. By this arrangement it will be seen that the springs 19 will tend to wrap the bands 11 and 12 upon said drums and thus tend to support said sashes to balance the same. In the sides of said sashes 4 and 4' are provided chambers 20 containing bars 21 normally held apart by means of springs 22 and carrying latching rollers 23 at their outer ends. Bars 21 carry finger pieces 24 projecting through slots 25 and a face plate 26 secured over the inside of chamber 20. The end of chamber 20 is partially closed by an end plate 27, there being however portions of said chamber left uncovered at either end of plate 27 for the protrusion of latching rollers 23, as shown. The ends 28 of plate 27 are beveled as shown and the ends 29 of chamber 20 are curved as shown to cause outward and inward movements of latching rollers 23 upon longitudinal movements of bars 21'. Longitudinal grooves 30 are provided in the side of frame 1 to receive rollers 23 and guide the same during raising or lowering of the sashes. By this arrangement it will be seen that by compressing finger pieces 24 between the fingers the rollers 23 may be drawn into chamber 20 to permit swinging of said sashes and that upon releasing of said finger pieces the rollers 23 will protrude from the ends of said sashes to engage grooves 30 to latch the windows in closed position and permit raising and lowering of the same. When it is desired to swing both of the sashes inwardly at the same time the lower sash is raised and the upper sash lowered when this may be done as indicated in Fig. 1. By placing the guide rod 2' nearer the center than guide rod 2 the upper sash is permitted to swing fully open without interference from guide rod 2. By placing the guide rods 2 and 2' in grooves in the inner corners of the sashes the adjacent ends of said sashes are caused to swing closely adjacent to the side of the frame when the sashes are closed. A hinged molding 31 may be placed on the outer por-

tion of the window-sill to close the crack between the lower sash and said sill, and may be swung back out of the way when it is desired to lower the upper sash.

5 While we have illustrated and described the preferred construction for carrying our invention into effect, this is capable of variation and modification without departing from the spirit of our invention. We, therefore, do not wish to be limited to the exact details of construction set forth, but wish to avail ourselves of such variations and modifications as come within the scope of the appended claims.

10 15 Having described our invention what we claim as new and desire to secure by Letters Patent is:

1. The combination with a window frame, of a sash having a vertically slidable and hinged mounting in said frame; oppositely disposed bars slidably mounted in said sash in the side opposite to said mounting; springs for holding said bars apart; guide rollers on the ends of said bars; guiding surfaces on said sashes adapted to project or withdraw said rollers upon longitudinal movements of said bars, there being grooves in said frame adapted to accommodate said

rollers; and finger pieces on said bars for drawing the same together, substantially as described. 30

2. The combination with a window frame, of a sash having a vertically slidable and hinged mounting in said frame, and provided with an elongated recess in the edge opposite to said hinge mounting; a cover plate closing said recess except at the ends where openings are left; oppositely disposed bars slidably mounted in said recess; springs for holding said bars apart; guide rollers on the ends of said bars; guiding surfaces at the ends of said recess and cover plate adapted to project or withdraw said rollers upon longitudinal movements of said bars, there being grooves in said frame adapted to accommodate said rollers; and finger pieces on said bars for drawing the same together, substantially as described. 35 40 45

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses. 50

EMIL STANECKY.

LEA H. STANECKY.

Witnesses:

ARTHUR A. OLSON,
JOSHUA R. H. POTTS.