

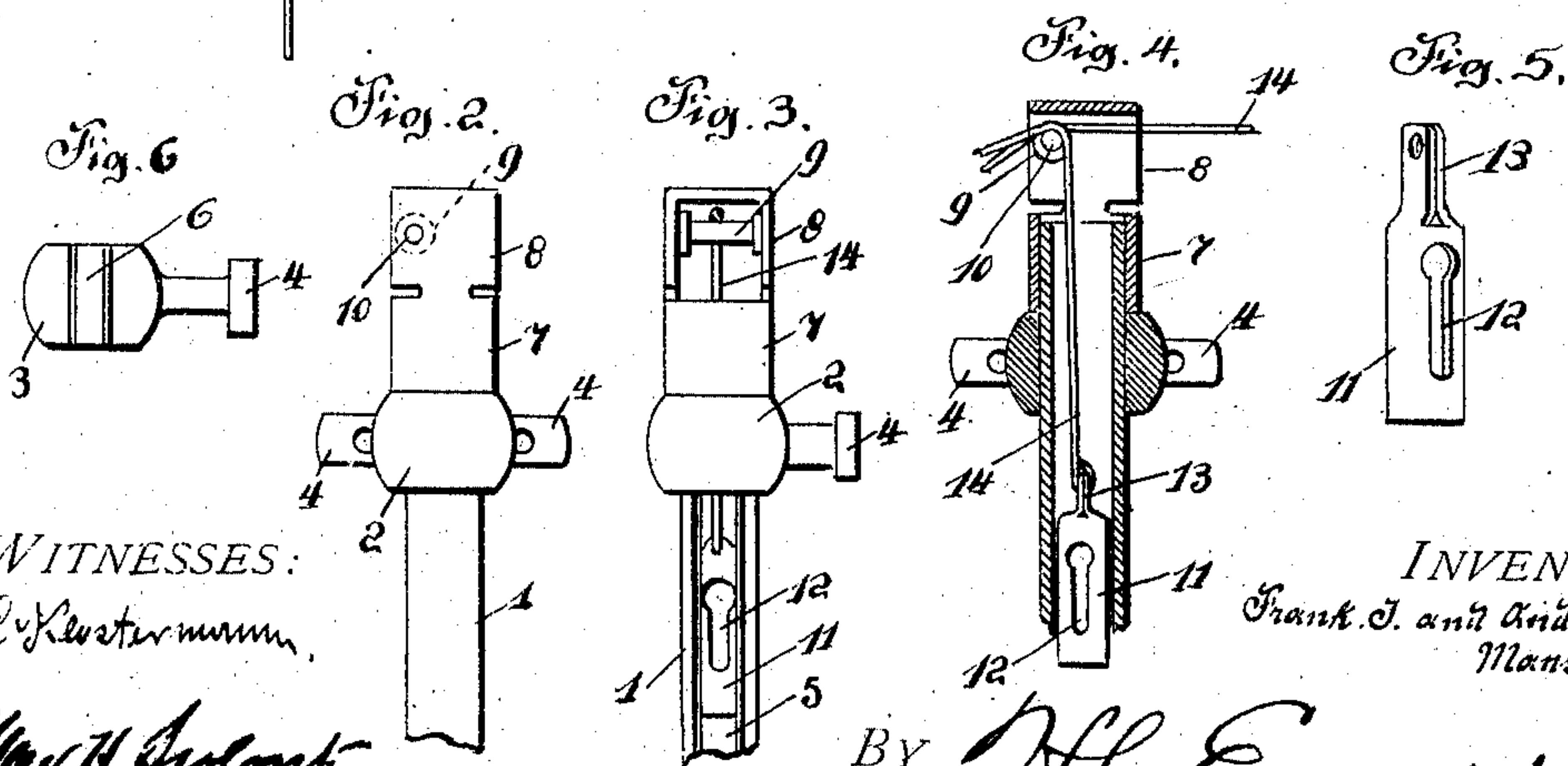
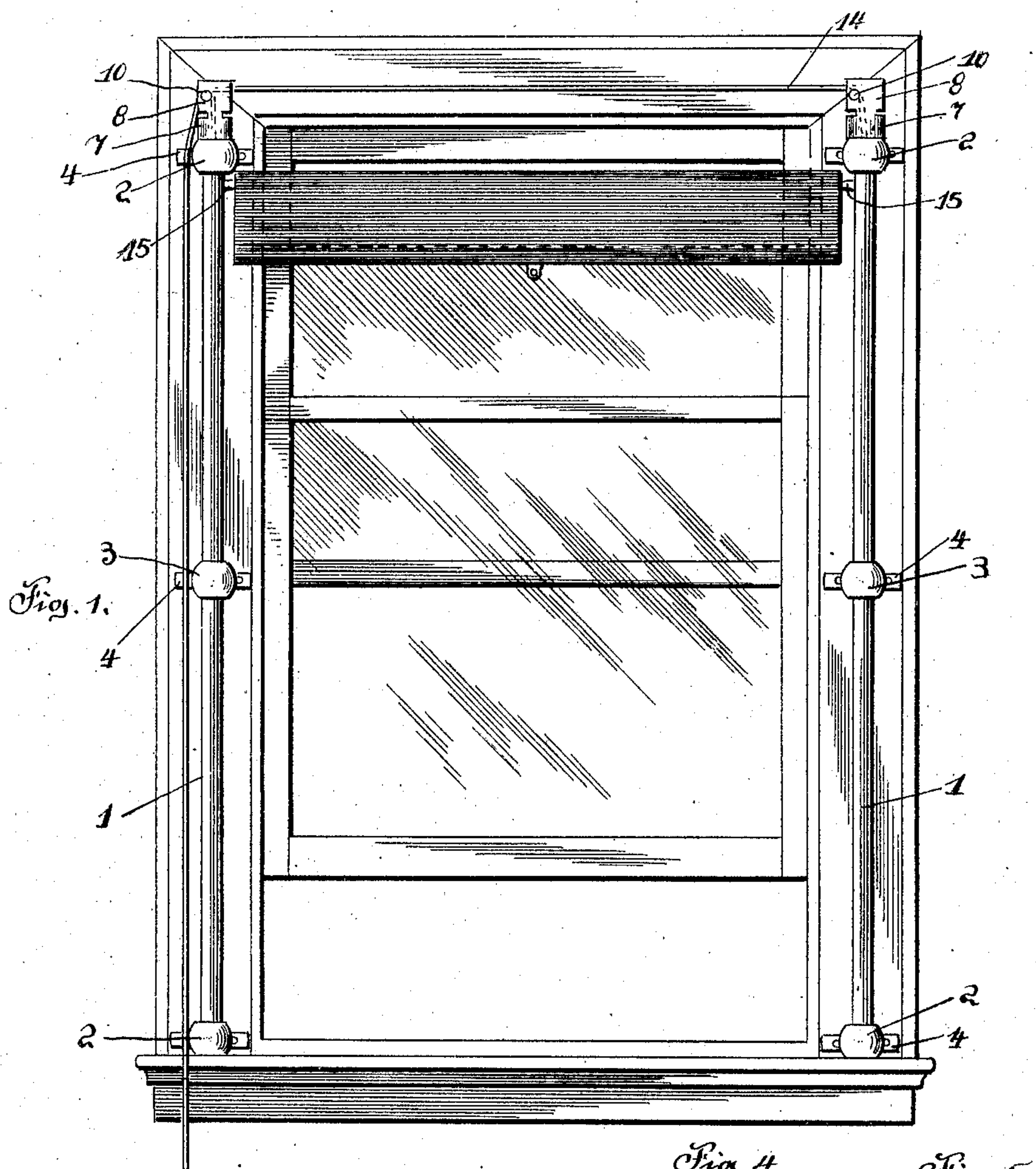
No. 846,494.

PATENTED MAR. 12, 1907.

F. J. & A. A. MANSMANN.

## WINDOW SHADE ADJUSTER.

APPLICATION FILED OCT. 26, 1906.



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# UNITED STATES PATENT OFFICE.

FRANK J. MANSMANN AND ANDREW A. MANSMANN, OF PITTSBURG,  
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## WINDOW-SHADE ADJUSTER.

No. 846,494.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed October 26, 1906. Serial No. 340,704.

*To all whom it may concern:*

Be it known that we, FRANK J. MANSMANN and ANDREW A. MANSMANN, citizens of the United States of America, residing at  
5 Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Window-Shade Adjusters, of which the following is a specification, reference being had therein to  
10 the accompanying drawing.

This invention relates to window-shade adjusters; and its object is to provide novel, inexpensive, and effective means for supporting a window-shade roller and permitting the  
15 roller and shade to be readily adjusted to admit light and air from the upper portion of the window when desired as well as from points below the top of the window-frame.

The invention consists of vertical guideways, shade-roller supports within said guideways, and cords for raising and lowering said supports and for suspending the same at any position to which they may be adjusted.

The construction of the improvement will be more specifically described hereinafter in connection with the accompanying drawing, which forms a part of this specification, and its novel features will be defined in the appended claim.

30 In the drawing, Figure 1 is a front elevation of a window equipped with our improvement. Fig. 2 is a front elevation of the upper end of one of the vertical guideways employed. Fig. 3 is an elevation of the inner  
35 side of the upper end of the guideway. Fig. 4 is a vertical sectional view of the same. Fig. 5 is a detail perspective view of one of the slides serving to support the shade-roller, and Fig. 6 is a detail of one of the guide-  
40 clamps.

At each side of the window-frame is secured a vertical guideway comprising a tube 1, said tube being secured in position by clamps 2 and 3. The clamps 2 are secured to  
45 the window-frame adjacent to the ends of the tubes 1, while the clamps 3 are located at points between the ends of the tubes, and each of said clamps 2 and 3 is provided with oppositely-extending perforated lugs 4,  
50 adapted to receive screws for securing the clamps to the window-frame.

The inner side of each of the tubular guideways 1 is formed with a longitudinal slot 5, extending from just below the upper clamps

2 to the lower ends of the tubes, and the central securing-clamps 3 are each formed with a vertical slot 6, registering with the longitudinal slots 5 in the tubes.

Upon the upper end of each of the tubular guideways 1 is supported a cap comprising a sleeve 7, fitting over the upper end to  
60 the tube 1, and a housing 8, formed integral with the sleeve 7 and having a pulley 9, supported therein upon a cross-pin 10.

Within each of the tubular guides 1 is  
65 suspended a slide 11, each consisting of a hollow cylindrical block formed on its inner side with a keyhole-slot 12, having perforated lugs 13 projecting from its upper end for the attachment thereto of a suspending-cord 14. These cords extend upward  
70 through the tubular guides 1 and pass over the pulleys 9. The suspending-cord 14 of one of the slides 11 extends over only one of the pulleys 9; but the cord 14 of the other  
75 slide 11 extends over both of the pulleys 9 and is attached to the other cord 14 at a suitable point, whereby both of said cords may be raised or lowered at the same time to elevate or lower the slides 11 together. 80  
The shade-roller 15 is provided with headed trunnions, which are supported within the slots 12 of the slides 11, and by raising and lowering both of said slides at the same time by means of the cords 14 the proper longitudinal position of the shade-roller and  
85 shade carried thereby is maintained.

The sleeves 7, fitting upon the upper ends of the tubular guides 1, have only a frictional engagement therewith, thus adapting said  
90 sleeves and the housings 8, carried thereby, to be turned upon the guides, thereby permitting a reversal of the positions of the pulleys 9 and adapting the improvement to be applied to different positions upon the  
95 window-frame, as may be desired.

It will be apparent from the foregoing description, in connection with the drawing, that the shade-roller 15 may be readily  
100 raised and lowered to adjust the same to any desired point between the vertical guides, thereby permitting light and air to enter through the window from either above or below the shade-roller, as may be desired.

It will be understood that the shade-roller  
105 15 is preferably of the ordinary spring type in common use, thus adapting the shade to be raised and lowered without varying the



position of the slides 11 with relation to the guides 1.

The slides 11 are sufficiently weighted to insure a free downward movement thereof  
5 when the cords 14 are manipulated to lower the shade.

The device may be readily secured to or removed from a window-frame, and while it is designed for general household use it is  
10 especially well adapted for use in hospitals and like institutions, where the admission of light and air are of special importance.

What we claim, and desire to secure by Letters Patent, is—

15 The combination with a window-frame, of parallel hollow guides secured to opposite sides of the frame, and formed with longi-

tudinal slots, slotted slides within said guides for supporting a shade-roller, suspending-cords secured to said slides, caps for 20 said guides, each comprising a vertical sleeve fitting over the upper end of the guide and an integral horizontal tubular housing, and pulleys mounted within said housings, over which the suspending-cords extend, said 25 housing serving to conceal the pulleys.

In testimony whereof we affix our signatures in the presence of two witnesses.

FRANK J. MANSMANN.  
ANDREW A. MANSMANN.

Witnesses:

MAX H. SROLOVITZ,  
F. O. McCLEARY.