W. W. LIND.

WINDOW FRAME ATTACHMENT.

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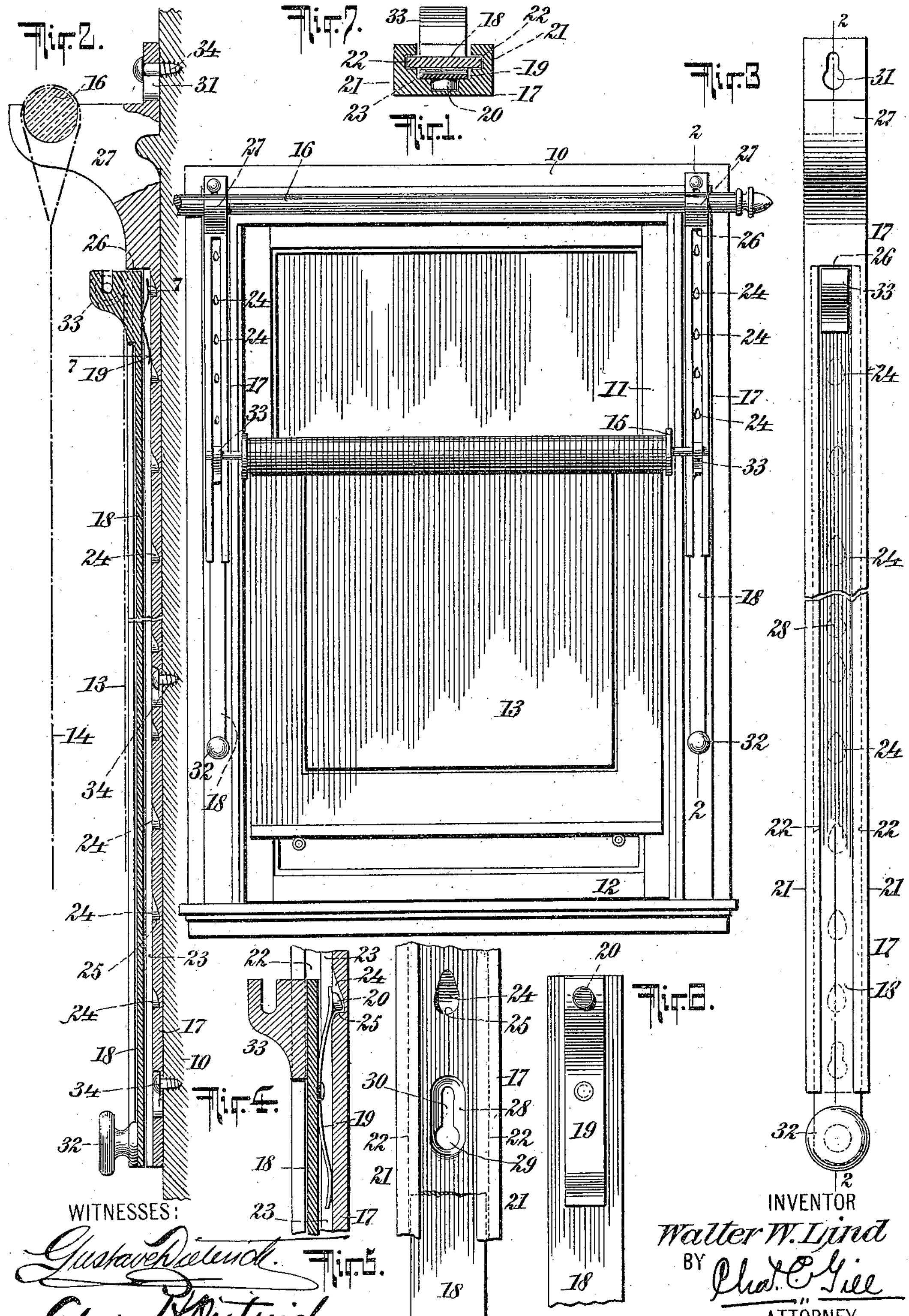
950,023. Patented Feb. 22, 1910.



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WALTER W. LIND, OF EAST ORANGE, NEW JERSEY.

WINDOW-FRAME ATTACHMENT.

950,023. Specification of Letters Patent. Patented Feb. 22, 1910.

Application filed November 6, 1908. Serial No. 461,291.

To all whom it may concern:

Be it known that I, WALTER W. LIND, a citizen of the United States, and a resident of East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Window-Frame Attachments, of which the following is a specification.

The invention relates to improvements in window shade and curtain supports, and it consists in the novel features of construction hereinafter described and particularly pointed out in the claims.

The object of my invention is to provide efficient attachments to be secured to the opposite sides of a window casing or frame for supporting a window-shade, and the curtains also if desired, and enabling the shade to be lowered from the upper end of the window for permitting a free entrance of air or light or both above the top of the shade.

In carrying out my invention I provide at each side of the window a fixed holder and guide and a vertically movable slide therein, said parts presenting novel features of construction and said sides being provided at their upper ends with means for supporting a shade-roller, while the upper ends of the guides are, when desired, furnished with brackets for supporting a curtain-rod.

The invention will be fully understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which:

Figure 1 is a front elevation of a window and its frame equipped with shade and curtain supporting attachments embodying my invention, the curtain being shown as having been lowered from the upper end of said frame; Fig. 2 is an enlarged vertical section of the same on the dotted lines 2—2 of Figs. 1 and 3, the shade-supporting slide being shown in its upper position and the curtain and shade being denoted by dotted lines; Fig. 3 is an enlarged detached front elevation of one slide and its guide; Fig. 4 is an enlarged central vertical section of a portion of the same on the line 2—2 of Fig. 3; Fig. 5 is an enlarged elevation of a portion of the attachment and is presented to illustrate one of the holes and slots and encompassing recesses formed in the guide to receive one of the securing screws; Fig. 6 is an inner face view of a portion of the slide, with the spring secured thereto, and Fig. 7 is a transverse section of the slide and its guide on the dotted line 7—7 of Fig. 2.

In the drawings, 10 designates the window-frame, 11 the upper sash of the window, 12 the lower sash of the same, 13 the shade and 14 the curtain, said shade being hung from a usual spring-roller 15 and said curtain from a rod 16.

The attachments of my invention comprise for each side of the window and to be secured to the frame 10, a vertical holder and guide 17, a slide 18 therein, and a spring 19 carried by the slide at its upper end and being a bowed leaf spring secured at its middle portion to the slide 18 and having its ends flexed against the face of the guide, the upper end of said spring carrying a dog 20 and the lower end of said spring presenting its smooth face to said guide and being adapted to ride freely, under a proper tension, against the same.

The two guides 17 correspond with each other and the two slides 18 correspond with each other. Each guide 17 consists of a vertically recessed frame having sides 21 which are grooved in their inner faces, as at 22, whereby ways for the slide 18 are formed, the opposite vertical edges of the slide being held in said grooves. The guides 17 are open between the inner faces of their sides 21, and between the grooves 22 and the outer face of the inner portion of the guide is formed a vertical chamber or runway 23 for the bowed spring 19 carried by the slide. Each guide 17 is formed in the outer face of its inner portion with a series of recesses 24 which are of special formation in that they taper or incline upwardly and outwardly at their upper portions and at their lower portions form rather abrupt shoulders 25. The main vertical recesses in the guides 17 are open at their lower ends, so that the slides may be moved downwardly therefrom, and at the upper ends of said recesses said guides are formed with shoulders 26 which close said ends of said recesses and serve as

stops to arrest the slides when they are pushed upwardly to the predetermined limit of their movement in that direction.

The guides 17 are preferably formed at their upper ends with brackets 27 for receiving and supporting a curtain rod 16, and said guides are also formed with recesses 28 having the holes 29 and slots 30 (Fig. 5) for the screws 34 by which said guides are fastened to the window frame, the intention being to have the holes 29 pass over the heads of the screws and then to draw the guides downwardly so that the slots 30 may embrace the screws inwardly from their heads. The recesses 28 receive the heads of the screws and thereby said heads do not become projected into the path of the springs 19. The holes 29 are of key-hole shape and permit the guides 17 to be conveniently removed, without disturbing the screws, from the window-frame whenever desired, as when it might be desired to lower the curtain rod for removing or re-arranging the curtains. The screw-holes 31 at the upper ends of the guides 17 correspond with the holes 29 and slots 30 with the exception that they are not surrounded by recesses 28, which at said points are unnecessary.

The slides 18 are plain vertical bars adapted to the grooves 22 of the guides 17 and are provided at their lower ends with knobs or handles 32 and at their upper ends with brackets 33 to receive the usual end-rods of a spring shade-roller. The handles 32 are provided for convenience in pulling the slides downwardly and pushing them upwardly. The springs 19 are fastened to the inner faces of the upper ends of the slides and at their ends are flexed against the guides. The lower ends of the springs 19 have a frictional engagement with the guides 17 but may ride freely over the recesses 24, said springs being wider than said recesses. The dogs 20 carried by the upper ends of the springs 19 are inclined outwardly at their upper and inner portions and at their lower edges form rather abrupt shoulders to enter the recesses 24 and prevent except under direct force manually applied for that purpose, the descent of the slides 18. The upper and inner surfaces of the dogs 20 are inclined so that they may readily ride out of the recesses 24 when the slides 18 are pushed upwardly. The recesses 24 and dogs 20 are constructed with regard to each other, the recesses facilitating the upward and resisting the downward movement of the dogs from them. The meeting surfaces of the lower edges of the dogs and lower ends of the recesses 24 must be somewhat abrupt so as to insure the slides remaining normally stationary in their adjusted positions but will permit the movement of the dogs from the recesses when proper downwardly pulling force is applied to the lower ends of the slides for lowering them and the shade.

The method of using my attachments will be largely understood from the foregoing description. The guides 17 are hung upon the screws 34, and the slides 18 may be inserted in said guides either before or after the guides are applied to the window frame. The curtain-rod 16 will be applied to the brackets 27 of the guides 17 and the shade-roller to the brackets 33 of the slides 18. The shade may be lowered from the upper end of the window by pulling downwardly on the slides 18, as shown in Fig. 1, and said slides will normally be held stationary in their adjusted positions by the spring-dogs 20 and recesses 24. The attachments may be removed and re-applied without disturbing the screws 34, and the shade 13 may be lowered and raised without disturbing the curtain 14.

What I claim as my invention and desire to secure by Letters-Patent, is:—

1. Window-frame attachments comprising at each side of the window a vertically recessed guide-frame having the inner faces of its sides formed with grooves (22) and affording a runway (23) inwardly beyond said grooves, a slide adapted to said grooves and having a handle and at its upper end a shade supporting bracket, and a leaf-spring secured to the upper inner end of the slide and having a dog flexed against said guide, said guide having a series of recesses having abrupt lower end walls and inclined surfaces extending upwardly and outwardly therefrom, and said dog having an abrupt lower end and being inclined upwardly and outwardly therefrom; substantially as set forth.

2. Window-frame attachments comprising at each side of the window a vertically recessed guide-frame provided in the outer face of its inner portion with a series of recesses having abrupt lower end walls and inclined surfaces extending upwardly and outwardly therefrom, a vertical slide mounted in said guide frame and having a handle and a shade-supporting bracket, and a leaf spring secured to the upper inner end of said slide and having a dog flexed against said guide to engage said recesses therein, said dog having an abrupt lower edge and being inclined upwardly and outwardly therefrom; substantially as set forth.

3. Window-frame attachments comprising at each side of the window a vertically recessed guide-frame having at the upper end of its recess a shoulder (26) and in the outer face of its inner portion a series of locking-recesses (24) and in said inner portion screw holes (29) with slots (30) extending up-

wardly therefrom and encompassed by recesses (28) to receive the heads of the screws, a vertical slide mounted in said frame and having a handle and a shade supporting bracket, and a spring dog secured to said slide and flexed against said frame for engaging said locking-recesses; substantially as set forth.

Signed at New York city, in the county of New York and State of New York, this 5th day of November A. D. 1908.

WALTER W. LIND.

Witnesses:
ARTHUR MARION,
CHAS. C. GILL.