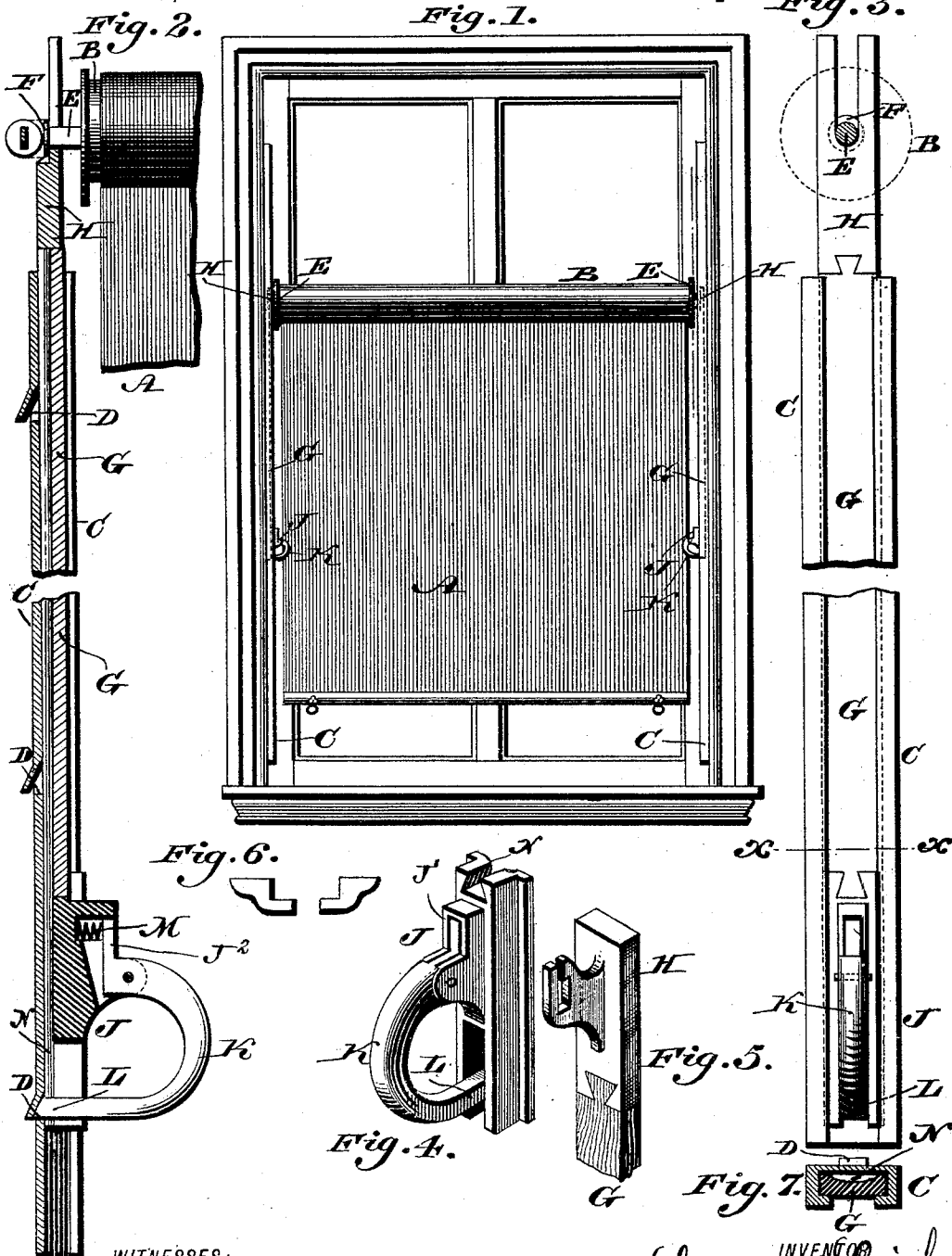


(No Model.)

S. R. SMITH.
ADJUSTABLE WINDOW SHADE.

No. 460,345.

Patented Sept. 29, 1891.



WITNESSES:

Robt. Aiton.
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UNITED STATES PATENT OFFICE.

STEPHEN R. SMITH, OF BELLEVILLE, ILLINOIS, ASSIGNOR OF ONE-HALF TO
GEORGE W. DETHARDING, OF SAME PLACE.

ADJUSTABLE WINDOW-SHADE.

SPECIFICATION forming part of Letters Patent No. 460,345, dated September 29, 1891.

Application filed September 20, 1890. Serial No. 365,629. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN R. SMITH, a citizen of the United States, residing at Belleville, in the county of St. Clair and State of Illinois, have invented a new and useful Improvement in Adjustable Window-Shades, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in adjustable window-shades, and has for its object means by which a shade, whether operated by spring-rollers or cords, may be quickly and reliably placed at any desired height on a window and from that position operated as ordinarily; and for that purpose it consists, first, of means for preventing lateral movement of the shade-roller in its bearings; second, of novel means for supporting the roller of a window shade or curtain, substantially as described; third, of mechanism, substantially as described, for adjusting the position of the roller of the shade; fourth, of the combination of parts herein set forth.

Figure 1 represents a front view of a window-shade with adjusting mechanism embodying my invention. Fig. 2 represents a vertical section of the adjusting mechanism on an enlarged scale. Fig. 3 represents a side elevation of a portion thereof. Fig. 4 represents a perspective view of the slide with hand-piece. Fig. 5 represents a modification of the roller-bearing piece of the slide. Fig. 6 represents a top view of a modification of the slide. Fig. 7 represents a horizontal section on line *x x*, Fig. 3.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a shade or curtain secured to a roller B, the latter being operated either by a spring or a cord.

C designates guides, which are fastened to the sides of a window-frame, as may be desired, and are provided with a series of stops or shoulders D in their rear walls, for a purpose hereinafter explained. The gudgeons or journals E of the roller B are provided at their ends with collars F for preventing displacement of the roller from its bearings.

Movable in the guides C are slides G, having

at their upper ends slotted or recessed pieces H, preferably of metal, forming bearings for the journals E, and their lower ends are provided with pivoted catches J, of segmental form, and having handle portions K and noses L, adapted to engage with the openings D. Said catches J are pivoted to bearings J', carried by said slides G, the said catches above the pivot thereof being formed with fingers J². Springs M bear against the fingers J² of said catches J, so as to normally keep the noses L in engagement with the respective shoulders D when the slide is in the required position, or the handles may be so weighted as to be properly controlled by gravity. The slides may be of wood or any other suitable material, as desired, and the said pieces H and J may be secured thereto in any suitable way, as by dovetailing, or may be made integral therewith.

The back portions of the bodies of the slides G are preferably formed with a groove N, so as to avoid, when moving the same, the contact therewith of any fastening nails or screws which may be projecting from the guides.

It will be seen that the shade may be raised or lowered to any desired position on the window by moving the slides G in the required direction, first releasing the catch from the shoulder D.

In the event of the running down of the shade, which frequently happens in spring-rollers, the proper portions of the device can be readily lowered, so that the shade can be adjusted or restored without reaching to the top of the window.

In Fig. 5 is shown a modification of the bearing-piece for supporting the roller, the upper portion of the slide G having a projecting piece with an inclined slot therein, in which slot the journal of the roller is adapted to rotate.

In Fig. 6 is shown a modification of one of the guides C, made in the shape of two pieces of ornamental molding.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a window-shade fixture, guides secured to the sides of a window-frame, having should-

ders, slides mounted on said guides, having recessed upper ends and grooves in the back to diminish the bearing-surface and thereby reduce friction, catches pivoted to the lower
5 ends of the slides, formed with horizontally-extending noses at their lower portion to engage said shoulders and upper vertically-extended fingers engaged by springs to normally force said noses inward, and a roller

with journals adapted to be inserted in said recessed upper ends of the guides and having collars on the outer ends, said parts being combined substantially as described.

STEPHEN R. SMITH.

Witnesses:

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