J. BEALIN.

WINDOW SHADE SUPPORT.

APPLICATION FILED NOV. 10, 1917.

1,264,755. Patented Apr. 30, 1918.

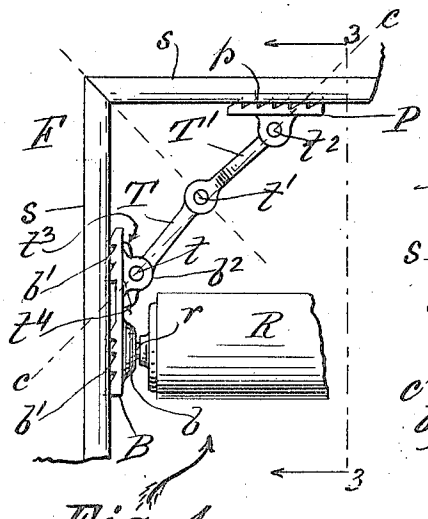


Fig. 1.

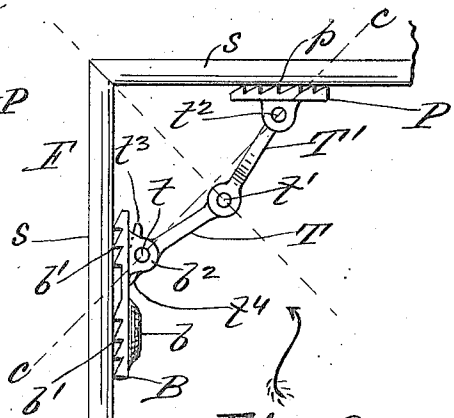


Fig. 2.

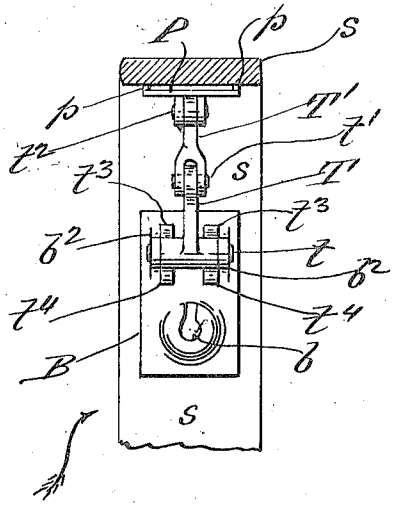


Fig. 3.

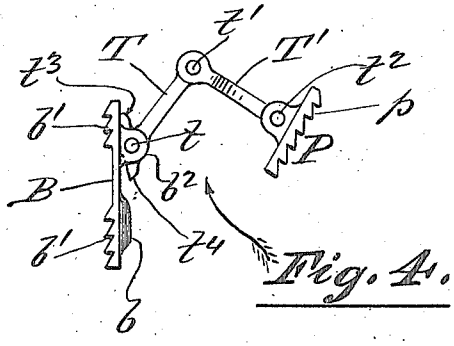


Fig. 4.

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UNITED STATES PATENT OFFICE.

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WINDOW-SHADE SUPPORT.

1,264,755. Specification of Letters Patent. Patented Apr. 30, 1918.

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To all whom it may concern:

Be it known that I, JOHN BEALIN, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Window-Shade Supports, of which the following is a specification.

My invention relates to means for supporting window-shade rollers, and is designed to afford a simple but effective device that may be quickly and conveniently positioned for use on the window casing or removed therefrom without material injury to the woodwork. It is well known in the art that the socket bracket pieces ordinarily used for supporting the axes of shade or curtain rollers are nailed or screwed to the upper parts of the lower sash retaining strips of the window frame,—said retaining strips being relatively narrow and thin, so that the nails or screws employed for the purpose are apt to split and otherwise damage and weaken said wooden strips. Furthermore, great care and skill are required in securing such socket bracket pieces in position, owing to the proximity to the window, and the fact that the screws or nails have to be driven parallel thereto; and the application of the ordinary socket bracket piece for the right hand side of the window is for this reason especially difficult for the average right-handed individual. Thus only an ambidextrous person can conveniently apply right and left hand socket pieces of the ordinary kind to an ordinary window frame.

Hence my object is to obviate these difficulties, and to afford a bracket socket piece that may be secured in position or withdrawn therefrom by the simple expedient of flexing a toggle joint in one direction or the other as the case may be, and as hereinafter fully set forth,—the invention consisting in the specific construction and arrangement of parts described and claimed, and the distinctive feature being the use of serrated bearing plates coupled together by the aforementioned toggle joint.

In the accompanying drawings,

Figure 1, is an elevation of one of my window shade supports applied to the left hand side of a window frame;

Fig. 2, is a like view showing the device positioned just prior to attachment;

Fig. 3, is a sectional elevation taken upon plane of line 3—3, Fig. 1, the shade roller being omitted;

Fig. 4, is a view of the device detached.

s, *s*, represent the ordinary wooden interior sash-retaining strips with which the window frame F, is provided.

My socket-bracket piece B, is formed with the usual socket *b*, for the reception of an axis *r*, of a shade roller R. On its rear side it is formed with a series of serrations or barbs *b'*, *b'*, and on its front side, above the socket *b*, with one or more lugs b^2, with which the toggle arm T, is articularly connected, as by the pivot *t'*. The other toggle arm T', is articularly connected with the first T, by the pivot *t'*, and with the fulcrum plate P, by the pivot t^2, which latter plate is formed on its rear side with serrations or barbs *p*, *p*, similar to those on the socket bracket piece B. These rearward protuberances *b'*, *p*, are in both instances preferably formed at the edges of the plates B, P, although this is not an essential feature,—the main object in this connection being the formation of the rear sides of the plates B, P, in such manner that they will dig into the opposed surfaces of the wood when sufficient pressure is applied through the medium of the toggle T, T'.

Thus when positioned as shown in Fig. 2, when the toggle joint is forced inward until its central pivot *t'*, is beyond the plane *c*, *c*, of the other pivots *t*, t^2, as in Fig. 1, the barbs *b'*, *p*, will be driven into the outer faces of the strips *s*, *s*, sufficiently to insure a firm hold, to sustain the socket bracket B, against displacement while supporting the shade roller R. To this end the barbs *b'*, *p*, are preferably inclined outward as related to the toggle as shown, so that the strain of use will tend to tighten the device in position.

In order to gage the inward central thrust of the toggle, I form the arm T, with one or more toes t^3, which, by contacting with the plate B, just after the pivot *t'*, has passed beyond the pivotal plane *c*, *c*, prevents further motion in that direction and insures and maintains the engagement of the barbs *b'*, *p*, with the wood work, as will be readily understood by reference to Fig. 1, by which it will be seen also that the position of the central pivot *t'*, beyond said plane *c*, *c*, will furthermore prevent the accidental return of said toggle beyond said

plane c, c, under ordinary conditions of use. That is to say the toggle will not be loosened by ordinary shock or vibration attendant upon the manipulation of the window or shade, but is practically locked in position with the other parts when the central pivot t', is within the pivotal plane c, c, as in Fig. 1.

In order to facilitate the initial application of the device as shown in Fig. 2, I also provide the toggle arm T, with a gage toe t^4, which, by contacting with the plate B, as in said Fig. 2, sustains the arm T, in proximate position and thereby aids also in correctly positioning the fulcrum plate P, preparatory to the forcing inward of the toggle into the locked position shown in Fig. 1.

My shade roller support may be quickly and conveniently applied or removed without the aid of skilled labor or the use of extraneous tools or implements of any kind; and it does not injure or split the wood work to which it is applied. And it does not become a "fixture" in the legal sense of the word, since it is not permanently attached to the window frame, so that a tenant may remove it with other personal property on vacating an apartment thus furnished by him.

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

1. A window shade support of the character designated, comprising a serrated socket bracket piece, a serrated fulcrum piece and an interposed toggle joint pivotally connected at opposite ends to said bracket piece and fulcrum piece adapted when distended to hold said pieces in positions at substantially right angles to each other.

2. A window shade support of the character designated, comprising a serrated socket bracket piece, a serrated fulcrum piece and an interposed toggle joint pivotally connected at opposite ends to said bracket piece and fulcrum piece adapted when distended to hold said pieces in positions at substantially right angles to each other, and means for gaging the inward central thrust of the toggle.

3. A window shade support of the character designated, comprising a serrated socket bracket piece, a serrated fulcrum piece and an interposed toggle joint pivotally connected at opposite ends to said bracket piece and fulcrum piece adapted when distended to hold said pieces in positions at substantially right angles to each other, and a stop member on one arm of the toggle adjacent the pivot of the latter with one of said pieces.

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