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WINDOW SHADE BRACKET.

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Fig. 1.

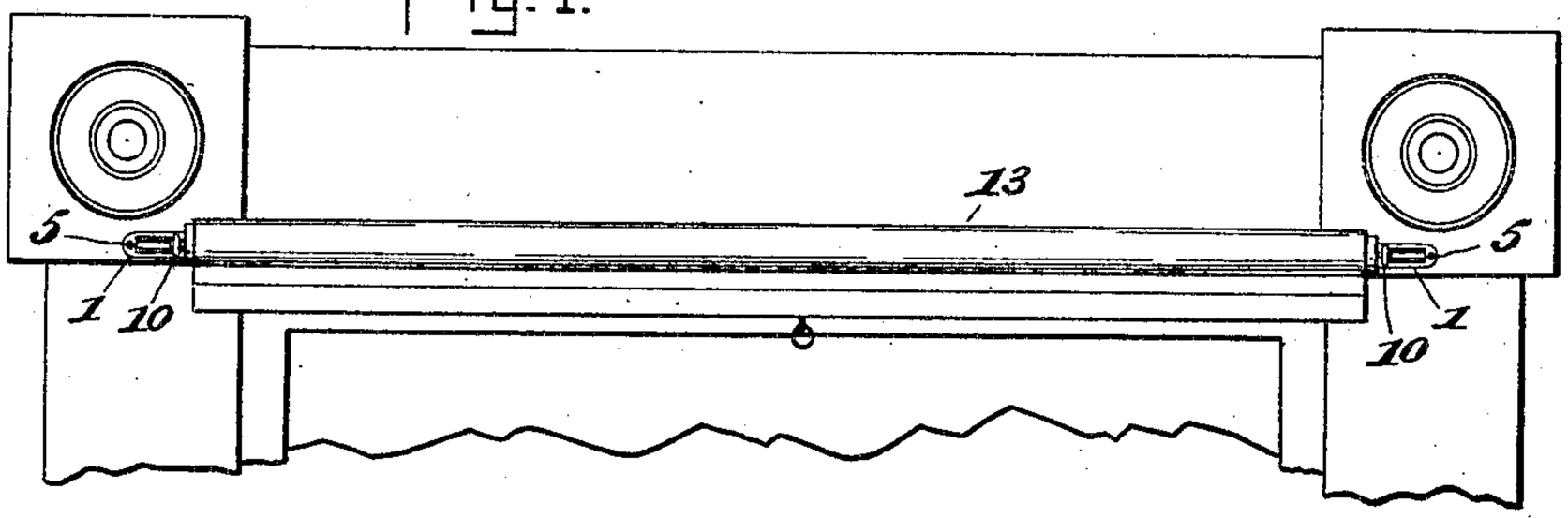


Fig. 2.

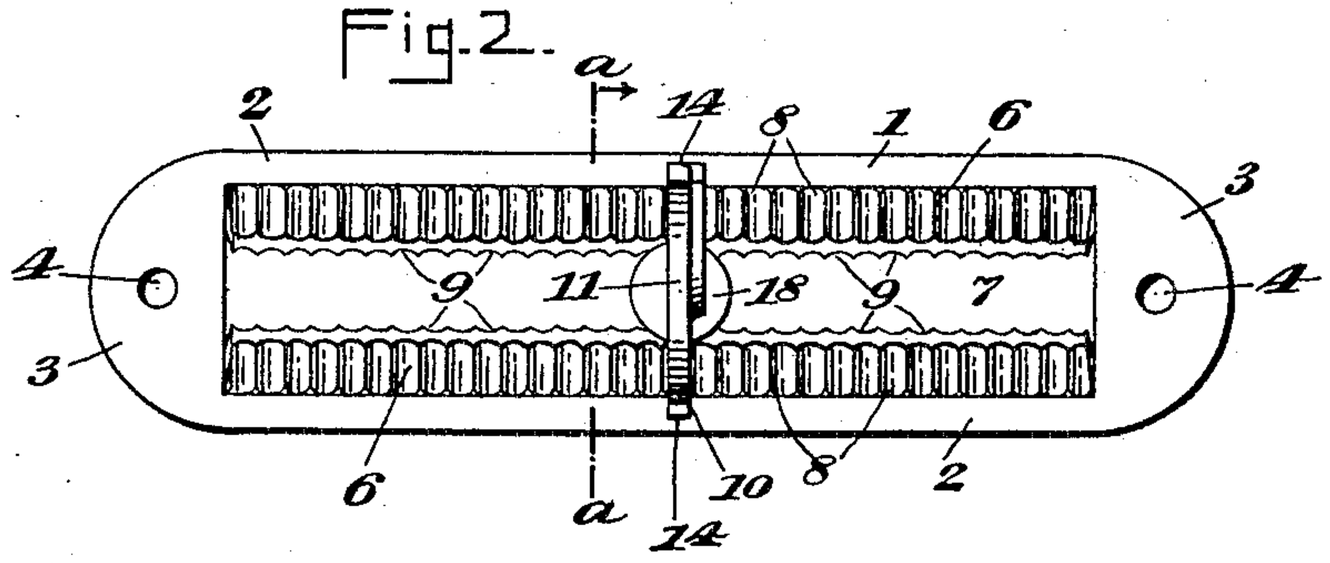
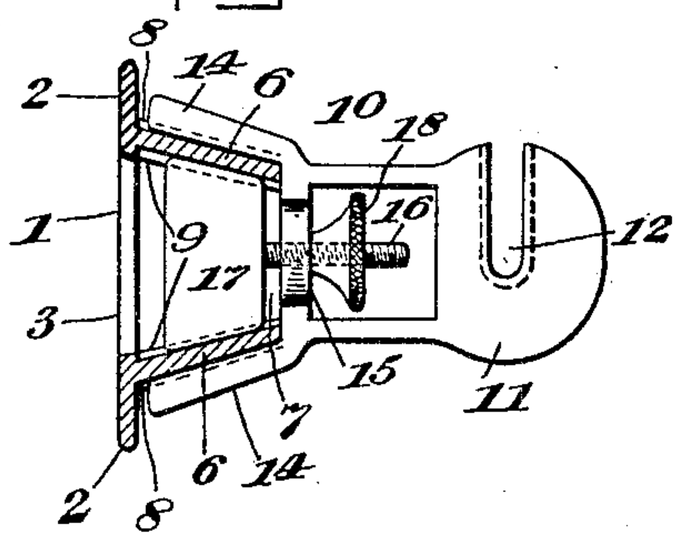


Fig. 3.



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UNITED STATES PATENT OFFICE.

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WINDOW-SHADE BRACKET.

No. 849,377. Specification of Letters Patent. Patented April 9, 1907.

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To all whom it may concern:

Be it known that I, CONRAD DOEHLER, Sr., a citizen of the United States of America, and a resident of St. Bernard, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Window-Shade Brackets, of which the following is a specification.

This invention relates to certain improvements in brackets or hangers such as are especially designed for supporting shade-rollers at windows and the like; and the object of the invention is to provide a device of this general character of a compact, simple, and inexpensive nature and of a light and durable construction having improved means of adjustment whereby when the device is in position upon the window-casing or other support it may be readily and conveniently adjusted to accommodate shade-rollers of different lengths without requiring to be removed and reset in position.

The invention consists in certain novel features of the construction and combinations and arrangements of the several parts of the improved shade-roller bracket or hanger whereby certain important advantages are attained and the device is rendered simpler, cheaper, and otherwise better adapted and more convenient for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

In the accompanying drawings, which serve to illustrate the invention, Figure 1 is a partial elevation showing the upper part of a window and its frame with a shade-roller supported thereat by means of the improved adjustable brackets or hangers. Fig. 2 is an elevation drawn to an enlarged scale and showing one of the brackets or hangers detached, and Fig. 3 is a transverse sectional view taken vertically through the bracket or hanger in the plane indicated by line *a a* in Fig. 2 and showing certain features of construction to be hereinafter referred to.

In the views, 1 1 indicate the improved adjustable brackets or hangers, which are secured in a well-known arrangement at opposite sides of the upper part of the window-frame in position to receive and support the ends of the shade-roller 13, which is thereby extended across the upper part of the window, so that the shade may be unrolled to cover the same.

Each of the brackets or hangers 1 1 comprises a body portion, which may be cast or otherwise formed from metal, with a flattened marginal flange 2 at each of its lateral edges or sides to take flush upon the surface of the window frame or casing, the ends 3 3 of the body portion being made rounded and perforated, as seen at 4, for the passage of screws or nails 5 for the secure attachment of the device in position upon the window-frame, as shown in Fig. 1.

The body portion of the bracket or hanger is thus given an elongated form, and at its upper and lower parts are provided forwardly-extended guide-flanges 6 6, parallel with each other and having their forward edge portions inclined toward each other and spaced apart to produce between them an undercut or dovetail guideway or channel 7, which is extended lengthwise along the center of the body portion and is adapted to extend in a horizontal direction alined with the length of the shade-roller when the device is in position for use.

8 8 represent transverse serrations extended in a series lengthwise of the inclined outer surfaces of the guide-flanges 6 6, and 9 9 represent similar serrations, which are arranged in a series extended lengthwise of the inclined inner surface of each of said guide-flanges 6 6. The functions of said serrations will be hereinafter explained.

10 represents a bracket-slide which is mounted for adjustment lengthwise along each of the body portions and is provided with a forwardly-extended supporting part 11, having an opening 12 to receive one of the end trunnions of the shade-roller 13. The opening 12 in the bracket at one end of the shade-roller 13 will be circular in form to receive the pintle ordinarily provided at one end of the roller, and the opening 12 of the bracket at the opposite end of the shade-roller will have the open slotted form shown in Fig. 3 to receive the flattened pintle at the opposite end of the shade-roller.

The slide member 10 is provided at its inner part with spaced forks 14 14, extended upwardly and downwardly from said member and inclined to correspond with the inclinations of the upper and lower serrated

guide-flanges 6 6 of the body portion, being adapted when the parts are assembled to engage with the serrations 8 8 of the outer surfaces of said guide-flanges in such a way as to securely hold the slide member 10 in adjusted position upon said body portion.

15 is a perforated brace or tie bar extended across the space between the forks 14 14 and adapted to bridge the guideway or channel 7 between the outer adjacent edges of the guide-flanges 6 6 of the body portion, and 16 is a screw which is passed through the perforation in said brace or tie bar 15 and has at its inner end and housed within the undercut guideway or channel 7 of the body portion a head or enlargement 17, the upper and lower faces of which are inclined to correspond with the inclinations of the respective upper and lower guide-flanges 6 6 and are adapted when the parts are assembled to engage and interlock with the serrations 9 9 upon the inner surfaces of said flanges to securely hold the slide member 10 in adjusted position upon the body portion. The outer screw-threaded end of the screw 16 is extended outward beyond the front face of the brace or tie bar 15 and is adapted to receive a nut 18, which bears on said brace or tie bar and is adapted when turned to move the head or enlargement 17 of the screw forwardly or rearwardly in the undercut or dovetailed guideway or channel 7 of the body portion. By this construction it will be seen that the nut 18 may be loosened, so that the head or enlargement of screw 16 may be moved rearwardly in guideway or channel 7 to disengage its upper and lower inclined faces from the serrations 9 on the inner surfaces of guide-flanges 6 6 and also to permit the forks 14 14 to be disengaged from the serrations 8 8 upon the outer surfaces of said guide-flanges, after which the slide member 10 may be slid lengthwise along the guideway or channel 7 of the body portion, so as to stand in adjustment to properly support the end pintle of the shade-roller, whereupon the nut 18 may be reversely turned to draw the head or enlargement 17 of screw 16 forwardly in the guideway or channel, so that the upper and lower faces of said head or enlargement may be engaged with the serrations 9 9 on the inner faces of flanges 6 6, while the forks 14 14 of the slide member are engaged with the outer serrations of said guide-flanges to securely retain the slide member in adjusted position.

By reason of the inclination of the serrations to the direction of movement imparted by the screw to the devices engageable with said serrations it is evident that said serrations may be made extremely shallow, while still affording a security of fastening equivalent to what could only be attained by much deeper serrations extended at right angles to the direction of movement of the reciprocal engaging parts. In this way the manufacture of the device is greatly facilitated whether it be formed from cast metal or struck up from sheet material. In this way it will be seen that when the improved brackets or hangers have been set in position at the sides of the window their slide members 10 may be adjusted toward or from each other, so as to adapt the brackets or hangers for use in connection with shade-rollers of different lengths, whereby it will be seen that a great convenience is afforded, since it is not necessary to cut down the length of the shade-rollers or to reset the brackets or hangers upon the window frame or casing to accommodate the differences in length of different rollers.

The improved brackets or hangers are also especially desirable for use, since they obviate the necessity of resetting and consequent marring of the woodwork, so that the brackets are particularly well adapted for use in rented houses and flats for preventing damage to the window-casings from frequent removal and application of the shade-brackets now in common use and which ordinarily results in quickly spoiling the woodwork.

It will also be obvious from the above description of my improvements that the improved shade bracket or hanger is capable of some modification without material departure from the principles and spirit of the invention, and for this reason I do not desire to be understood as limiting myself to the precise form and arrangement of the several parts of the device herein set forth in carrying out my invention in practice.

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

1. A bracket for shade-rollers comprising a body portion for attachment to a window-casing and provided with a guide-flange extended longitudinally upon it and having a longitudinal series of serrations, a slide member adapted to receive the end pintle of a shade-roller and adjustable lengthwise along the guide-flange and means for holding said member in adjusted position and comprising a part movable in and out of engagement with the serrations upon the guide-flange said serrations being at inclination to the direction of movement of said part.

2. A bracket for shade-rollers comprising a body portion for attachment to a window-casing and having a longitudinally-extended serrated part, a slide member adapted to receive the end pintle of a shade-roller and adjustable lengthwise along said longitudinally-extended part, a device carried by the slide member and movable in and out of clamping engagement with the serrations of said longitudinally-extended part, the serrations on said longitudinally-extended part being at inclination to the direction of movement of

said device, and means for operating said device to engage it with the serrations of said longitudinally-extended part to retain the slide member in adjusted position.

3. A bracket for shade-rollers comprising a body portion for attachment to a window-casing and having a longitudinally-extended guide-flange the opposite surfaces of which are provided with serrations in longitudinally-extended series, a slide member adapted to receive the end pintle of a shade-roller and adjustable lengthwise along the guide-flange, devices carried by the slide member at opposite sides of the guide-flange for movement in and out of engagement with the serrations in opposite surfaces of said flange and means for moving said devices in an inclined direction into engagement with the serrations of the guide-flange to retain the slide member in adjusted position.

4. A bracket for shade-rollers comprising a body portion for attachment to a window-casing and having longitudinally-extended guide-flanges having external inclined serrations and spaced apart to produce between them a guideway the opposite sides of which are undercut, a slide member adapted to receive the end pintle of a shade-roller and adjustable along the guideway with oppositely-projecting inclined parts adapted, when the member is moved toward the body portion, to engage the inclined serrations in the outer surfaces of the guide-flanges, a screw having an enlargement in the undercut guideway with opposite faces engaged with opposite undercut sides thereof, a perforated brace carried by the slide member and through which the screw is passed and a nut carried by the screw outside said brace.

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