F. H. KNAPP.

WINDOW SHADE BRACKET.

APPLICATION FILED DEC. 8, 1908.

954,742.

Patented Apr. 12, 1910.

Fig. 1.

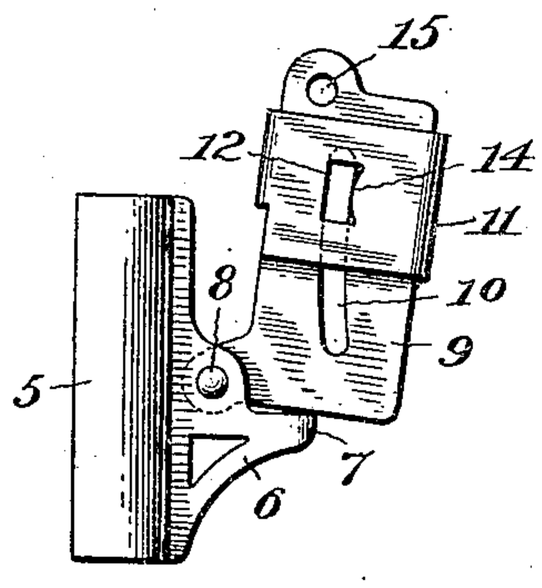


Fig. 2.

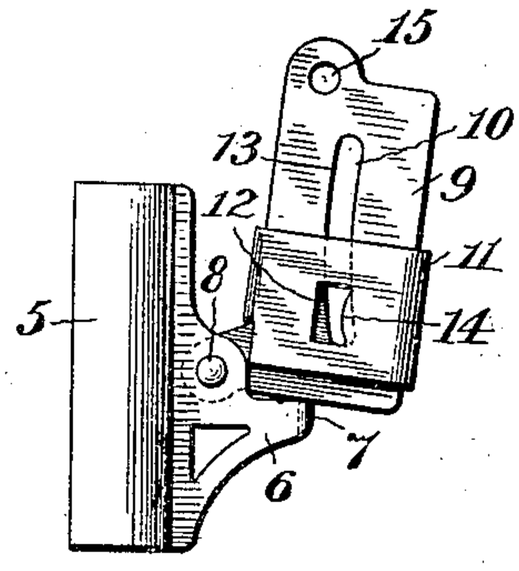


Fig. 3.

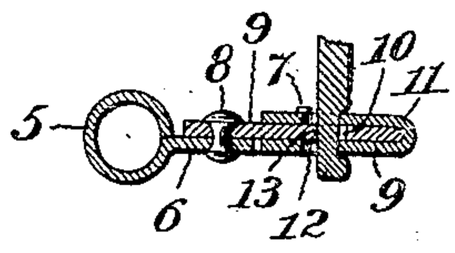
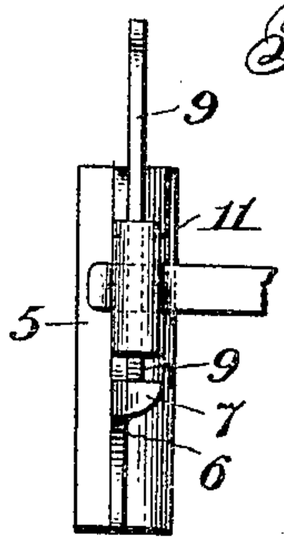


Fig. 4.



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UNITED STATES PATENT OFFICE.

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WINDOW-SHADE BRACKET.

954,742. Specification of Letters Patent. Patented Apr. 12, 1910.

Application filed December 8, 1908. Serial No. 466,455.

To all whom it may concern:

Be it known that I, FREDERICK H. KNAPP, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Window-Shade Brackets, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to window-shade brackets and is especially designed for use with brackets for vertically-adjustable window-shades.

A well-known method of providing windows with vertically-adjustable shades is to secure the shade-brackets upon vertical guide-rods on the window-casing and allow the brackets to slide thereon so that both the shade-roller and brackets may be raised or lowered to any desired position. Considerable difficulty has been experienced, however, in providing means for firmly holding the shade-roller in brackets of this kind and at the same time allow of its instant insertion or removal, and to remedy this is the object of my invention.

In the accompanying drawings, forming part of this specification and in which like numerals indicate corresponding parts throughout the several views, Figure 1 is a side elevation, Fig. 2 is a similar view showing the sleeve in locking position, Fig. 3 is a sectional view showing a part of a spindle in place, and Fig. 4 is an edge view of the bracket..

In the practical embodiment of my invention, I employ a sleeve 5 adapted to slide upon a vertical guide-rod secured to the window-casing on one side of the window, said sleeve having an arm 6 integrally formed therewith, the outer extremity of which is bent at right angles to the main portion to form a lug 7, as shown in Fig. 3. Pivoted, as at 8, to the arm 6 so that its downward movement is arrested by the lug 7 is a bracket-member 9 having an elongated curved slot 10 stamped or otherwise cut therein. This slot has preferably a gradual diagonal slope lengthwise across the bracket-member. A locking sleeve 11 having alined apertures 12 stamped therein is adapted to slide upon the bracket-member 9 above the pivot, said apertures 12 being so placed in relation to the bracket-member that when the sleeve is in position thereon they aline with the upper extremity of the slot 10, sufficient space being afforded between the wall 13 of the slot and the walls 14 of the apertures to admit the end of a roller-spindle of the usual type. When the end of a shade-roller spindle, which may as usual have a projection thereon, is introduced into the space thus formed in the sleeve and bracket, the weight of the shade-roller will force the sleeve 11 downward and in consequence of the diagonal slope of the slot 10 will firmly wedge and lock the end of the roller between the wall 13 of the slot and the walls 14 of the apertures in the sleeve, the projection on the spindle entering back of the sleeve and preventing its lengthwise movement. To further increase the wedging action the walls 14 of the apertures are slightly curved to conform largely to the spindle of the shade roller. A hole 15 is stamped in the upper portion of the bracket-member 9 through which an adjusting cord may be fastened.

In practice, two brackets, such as described, are utilized, one on each side of the window to secure the opposite ends of a shade-roller, the weight of the roller serving to firmly bind the ends of the spindle in the brackets and every pull on the shade serving to increase the wedging action between the walls of the slot and apertures. It is thus evident that the shade-roller will be firmly and securely held at all times in an effective manner, while at any time it can be quickly and easily removed from the brackets by sliding the sleeve 11 upward until the apertures 12 aline with the upper extremity of the slot 10 and withdrawing the ends of the roller.

It is to be understood that many changes in the form and arrangement of the parts can be made without departing from the nature and principle of the invention.

Having described my invention, I claim—

1. In a shade bracket, the combination of a bracket member having an elongated slot therein for the reception of a shade-roller spindle, and a locking sleeve slidable on said member, and having a spindle-receiving aperture therein.

2. In a shade-roller bracket, the combination of a member having an elongated slot therein to receive the shade-roller spindle, and a sleeve slidable on said member having alined apertures adapted to co-act with said slot to retain the shade-roller, said apertures being constructed and arranged to register only with the upper extremity of said slot.

3. In a shade bracket, the combination of a sleeve adapted to slide upon vertical guide-rods on the window-casing, an arm thereon, a bracket-member pivoted to said arm and having an inclined slot therein, and a locking sleeve slidable on said bracket-member and having an aperture therein constructed and arranged to aline only with the upper extremity of said slot.

4. In a shade bracket, the combination of a sleeve adapted to slide upon vertical guide-rods upon the window-casing, an arm on the sleeve, having a projection at its lower end, a bracket-member pivoted to said arm and limited in its downward movement by said projection, said bracket-member having an inclined slot therein, and a locking sleeve slidable upon said bracket-member and having alined apertures therein constructed and arranged to aline with the upper extremity of said slot, and to be out of alinement with the slot when the sleeve is in its lowermost position.

5. In a shade roller bracket, the combination with a bracket member having an elongated curved slot therein, and a locking sleeve having a spindle receiving opening therein mounted on the bracket and having means for permitting a vertical sliding movement on said bracket, the said aperture being in length less than the slot.

6. In a shade roller bracket the combination with a bracket member having an elongated inclined slot for the reception of a shade-roller spindle, of an apertured sleeve of a length less than the bracket, adapted to slide thereon, and having a spindle receiving aperture therein.

7. In a device of the character described, the combination of a bracket-member having an elongated slot therein for the reception of a shade-roller spindle or the like, and a locking sleeve movably mounted on said member, and having a spindle-receiving slot therein.

8. In a device of the character described, the combination of a bracket-member having a spindle-receiving slot therein, and a locking sleeve slidably connected to said member, and formed with a spindle-receiving aperture adapted to co-act with said slot to retain the shade roller.

9. In a shade-roller bracket, the combination of two separate members movably associated with each other adapted to coöperate to fasten a shade roller in place, one of said members having a slot and the other an aperture therein adapted to retain a shade-roller spindle, said slot and aperture being fashioned to aline in one of the adjusted positions only.

10. In a shade roller bracket, the combination with one member having an elongated slot therein, of a second member slidably mounted with reference to said first mentioned member provided with an aperture therein adapted in one position of the members to register with the slot, said slot being arranged in part out of alinement with the line of sliding movement of said second member whereby in another position of the members the aperture and slot will be out of registration.

11. In a shade roller bracket, slidably related members provided with openings adapted in one position of the members to aline to permit the introduction of a shade roller spindle and in another position to be shifted out of alinement to wedge the spindle in place.

12. In a shade roller bracket, shiftably related members having openings adapted to offer a large opening for the introduction of the shade spindle when the members are in one position and to mutually contract or reduce the size of said opening in another position to secure the spindle in place, one of said members engaging the other to secure them in adjusted position.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK H. KNAPP.

Witnesses:
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