E. J. GRIGSBY.

SHADE ROLLER BRACKET.

APPLICATION FILED APR. 13, 1918.

1,291,850. Patented Jan. 21, 1919.

Fig. 1

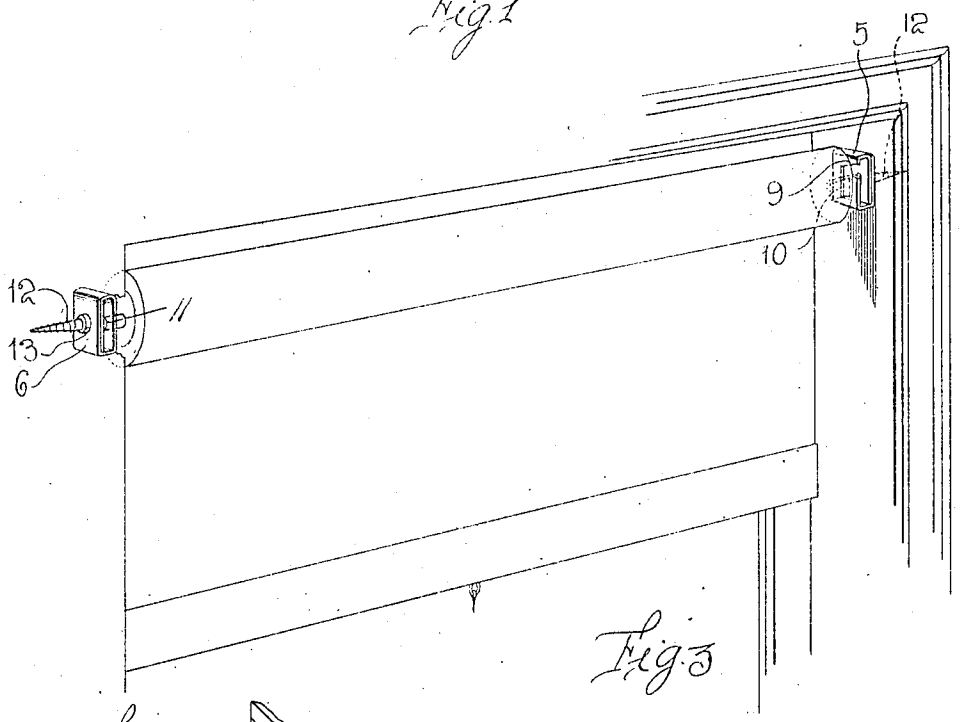


Fig. 3

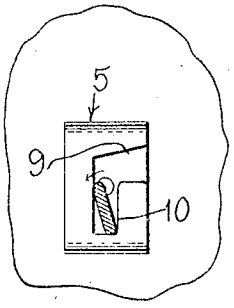


Fig. 2

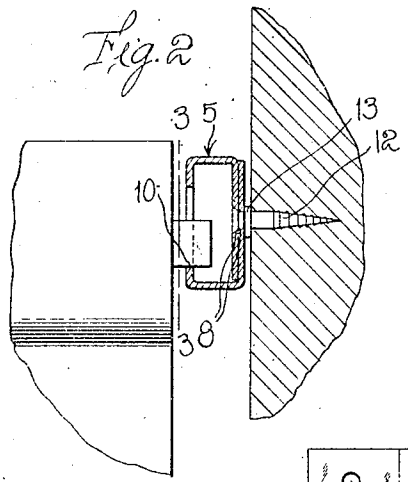
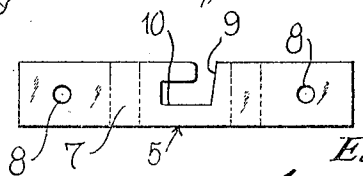


Fig. 4



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UNITED STATES PATENT OFFICE.

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SHADE-ROLLER BRACKET.

1,291,850. Specification of Letters Patent. Patented Jan. 21, 1919.

Application filed April 13, 1918. Serial No. 228,405.

To all whom it may concern:

Be it known that I, EARL J. GRIGSBY, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Shade-Roller Brackets, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved shade roller bracket and has for its primary object to provide a simple, durable and inexpensive device for mounting or supporting a curtain shade roller upon a window frame.

It is a particular object of the present invention to provide a bracket member for receiving the spring winding trunnion of the shade roller, consisting of a rectangular metal loop having a fastening screw fixed in one side thereof and an angular slot in its other side portion to receive the trunnion, said slot being so disposed relative to the axis of the screw as to obviate any possibility of turning or rotative movement of the bracket by the angular pressure of the trunnion.

It is a further general object of my invention to provide a shade roller bracket as above characterized which may be easily and quickly applied in its operative position, and will not mar the finish of the window frame.

With the above and other objects in view, the invention consists in the improved combination, construction and relative arrangement of the several parts as will be hereinafter more fully described, subsequently claimed and illustrated in the accompanying drawing in which similar reference characters designate corresponding parts throughout the several views, and wherein:—

Figure 1 is a perspective view illustrating the bracket members applied to a window frame;

Fig. 2 is a vertical sectional view through one of the bracket members;

Fig. 3 is a section taken on the line 3—3 of Fig. 2 showing the position of the rectangular roller trunnion in the slot of the bracket member when the shade is pulled downwardly from the roller; and

Fig. 4 is a plan view of the blank from which the bracket member is formed.

Referring in detail to the drawing, 5 and 6 respectively indicate the bracket members which are arranged at relatively opposite sides of the window frame, the member 5 being provided with means to be hereinafter described to receive the rectangular trunnion of the roller, while the member 6 receives the cylindrical roller trunnion.

Each bracket member is formed from a sheet metal plate 7 shown in blank in Fig. 4, this plate being stamped or cut out in proper length and width and provided adjacent each of its ends with an opening 8. The plate 7 from which the bracket member 5 is formed is further provided intermediate of its ends with a trunnion receiving slot having an angularly inclined entrance portion 9 extending inwardly from one longitudinal edge of the plate and a portion 10 extending longitudinally of the bracket plate midway between the longitudinal edges thereof. The plate 7 from which the other bracket member 6 is formed is centrally provided with a circular opening as shown at 11.

The sheet metal plate 7 is bent upon itself to provide an elongated loop, the end portions of the plate being lapped upon each other so as to dispose the openings 8 in coinciding relation, said end portions of the plate being suitably spaced from the medial portion thereof. One end of a threaded shank or screw 12 is rigidly fixed in the openings 8 to connect the lapped end portions of the plate 7, and this screw is formed with a shoulder 13 which limits the penetration of the screw into the window frame.

In the use of my improved shade roller brackets, the brackets are mounted upon the opposite sides of the window frame, the screws 12 being threaded therein until the shoulders 13 abut against the face of the frame. These shoulders space the lapped end portions of the bracket plate from the face of the frame so that the latter will not be marred. The shade roller is then arranged in position, the cylindrical trunnion at one end thereof being engaged through the circular opening 11 of the bracket member 6, while the rectangular trunnion at the opposite end of the roller is inserted into the entrance 9 and then downwardly into the portion 10 of the slot in the bracket member 5. As seen in Fig. 3 of the drawing, the portion 10 of this slot is of such depth that the upper edge of the roller trunnion is disposed in a plane which coincides with the axis of the attaching screw 12. Thus when the shade is pulled downwardly

and there is a downward pressure of the trunnion on the lower edge of the slot portion 10, the trunnion will be rocked in said slot which is of slightly greater width than the thickness of the trunnion and the upper edge of the trunnion will bear against the inner edge of the slot at a point in line with the axis of the screw. This turning movement of the bracket member is obviated, and said bracket member will remain in a vertical position with respect to the frame.

From the above description taken in connection with the accompanying drawing, it will be seen that I have produced a very simply constructed shade roller bracket which may be easily and quickly mounted in its proper operative position upon the window frame and which will not, in the operation of the window shade be rotated or moved relative to the frame which would result in marring the finish thereof. The device can be manufactured and retailed at very small cost, and in view of the loop shaped construction of the bracket plate it will also be appreciated that the bracket is exceedingly strong and durable. When the bracket members are removed, the openings formed by the attaching screws can be filled or plugged up with wood or putty and as these openings are quite small, they will not be noticeable. It will of course be understood that if desired the sheet metal of which the bracket plates are formed may be nickeled or otherwise provided with an ornamental finish. The bracket members may likewise be constructed in various sizes. Therefore, while I have shown and described the preferred form, construction and arrangement of the several parts of the device, it is to be understood that the same are susceptible of considerable modification and I therefore reserve the privilege of adopting all such legitimate changes as may be fairly embodied within the spirit and scope of the invention as claimed.

I claim:—

1. A shade roller bracket consisting of a metal plate bent upon itself to provide an elongated loop, the end portions of the plate being lapped upon each other, the medial portion of the plate having means formed therein to receive a roller trunnion, and attaching means for the bracket plate rigidly fixed in the lapped end portions of said plate.

2. A shade roller bracket consisting of a metal plate bent upon itself to provide an elongated loop, the end portions of the plate being lapped upon each other, the medial portion of the plate having means formed therein to receive a roller trunnion, the end portions of said plate having openings adapted to register with each other, and an attaching screw rigidly fixed at one of its ends in said openings and connecting the lapped end portions of the plate.

3. A shade roller bracket consisting of a sheet metal plate bent upon itself to provide an elongated loop having end portions lapped upon each other, the medial portion of said plate having a slot therein opening upon one edge of the plate and adapted to receive a rectangular roller trunnion, and an attaching screw fixed in the lapped end portions of the plate, said slot being of such length that the upper edge of the trunnion when engaged in the slot is disposed in a plane coincident with the axis of the attaching screw.

4. A shade roller bracket consisting of an elongated metal loop provided in one of its side portions with a slot to receive the rectangular trunnion of a shade roller, the opposed side portion of the loop being centrally provided with a screw receiving opening, said slot being of such length that the upper edge of the trunnion engaged therein is disposed in a plane coinciding with the axis of the screw receiving opening whereby turning movement of the bracket loop upon a downward pull on the shade roller is prevented.

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

EARL J. GRIGSBY.

Witnesses:
J. S. MATTHEWS,
BENNET D. LANE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."