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M. HARVOZINSKI ET AL

WINDOW SHADE AND CURTAIN BRACKET

Filed Apr. 26, 1921

Fig. 1.

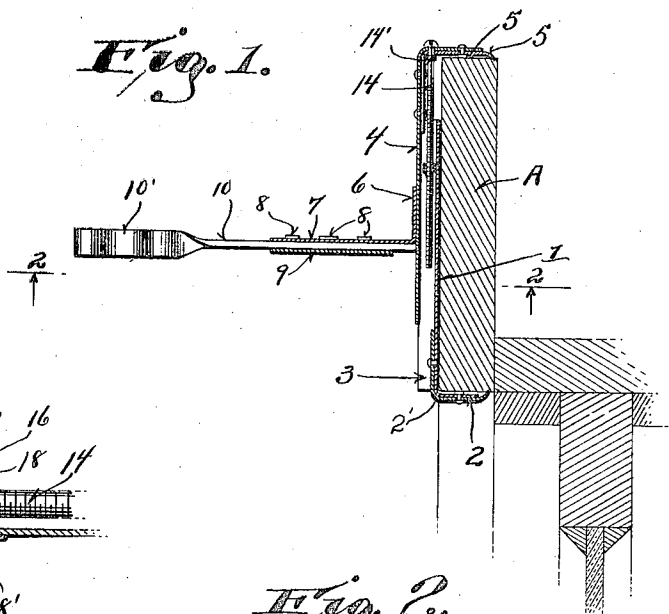


Fig. 3.

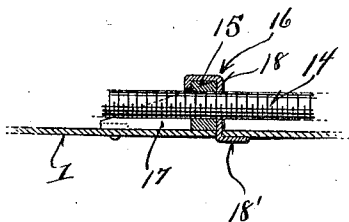


Fig. 2.

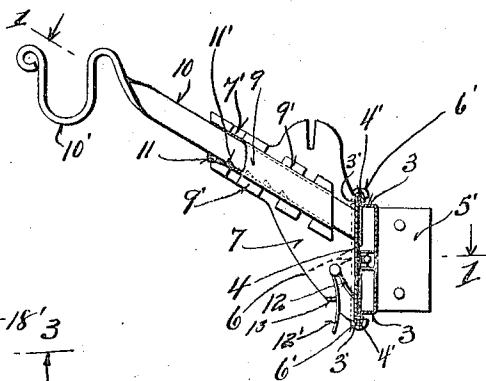
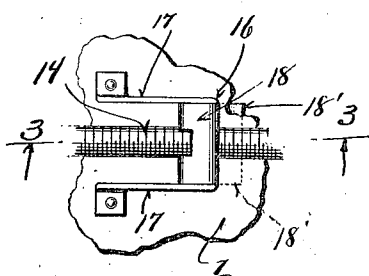


Fig. 4.



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UNITED STATES PATENT OFFICE.

MIKE HARVOZINSKI AND JOHN GAWLIK, OF MILWAUKEE, WISCONSIN, ASSIGNORS OF
ONE-THIRD TO STANLEY GNACINSKI, OF MILWAUKEE, WISCONSIN.

WINDOW SHADE AND CURTAIN BRACKET.

Application filed April 26, 1921. Serial No. 464,742.

To all whom it may concern:

Be it known that MIKE HARVOZINSKI and JOHN GAWLIK, both citizens of the United States, and residents of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Window Shades and Curtain Brackets; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention refers to combination curtain and shade fixtures. The primary object of the invention is to provide a simple, inexpensive effective sheet metal fixture adapted to frictionally grip the various sized frames of windows, whereby the woodwork is not marred and the fixtures can be quickly fitted to or removed from it.

Another object of our invention is to provide means for adjusting the width between the hanger arms of a companion pair of the brackets, together with means for locking the same in their adjusted positions.

Another object of our invention is to provide a sheet metal construction wherein the various units comprising a bracket can be readily stamped and assembled without the aid of high-class mechanics, or machine work.

With the above and other minor objects in view, the invention consists in what is hereafter illustrated, described and claimed.

In the drawings,

Figure 1 represents a sectional plan view of a hanger embodying the features of our invention, the same being shown affixed to the frame of a window and in section, as indicated by lines 1—1 of Figure 2.

Figure 2 is a face view of the same, with parts in section, as indicated by lines 2—2 of Figure 1.

Figure 3 is a detail sectional elevation upon an enlarged scale of the adjusting means comprising a bolted nut and its associated parts, and

Figure 4 is a sectional view of the same, the section being indicated by lines 4—4 of Figure 3.

Referring by characters to the drawings, A represents a panel of a window frame, to the edge of which is affixed by frictional grip, the base of a primarily telescopic bracket. The bracket base comprises an inner box-like plate 1, having a down-turned

end wing 2, which wing constitutes a gripping element for one edge of the window frame. The wing, as shown, is reinforced by an angular plate 2' which is riveted or otherwise secured to the corner structure of the plate comprising the base portion thereof, and its gripping wing. The plate is formed with longitudinal folded side walls 3—3, which side walls terminate with up-turned flanges 3' that constitute runways for telescopic union with a cover plate 4, the same together with the box-like plate forming the base member of the bracket. The longitudinal edges of the cover plate 4 are formed with open beaded edges 4' for sliding engagement with the runway flanges 3' of the plate 1, and one end of the cover plate is folded over to form a second end gripping wing 5, which wing is reinforced by an angular plate 5' that is bolted or otherwise secured to the wing 5 and the cover plate body.

The box-like structure comprising the two plates are adapted to receive a slidable clip 6, the longitudinal edges of which clip are folded over to form grooved slides 6' 6', which engage the outer surfaces of the beaded edges 4'. One end of the clip is folded outwardly to form an angular disposed ear 7, the upper end of which is suitably slotted for the reception of the trunnions with standard curtain shade roller. The ear 7 as shown in Figure 2 is also formed with an extension arm 7' and the body of said ear is slotted at intervals 19 in parallel relations to the arm, for the reception of tongues 8 of a socket strip 9, the confining tongues of the strip being intersected by feet 9' which engage the opposite side of the ear, whereby the strap is properly spaced and rigidly maintained with relation to the binding tongues 8, which are folded over the rear of the ear. The socket thus formed is adapted to receive the leg 10 of a removable curtain receiving hanger 10'. The hanger can be adjusted in or without with relation to the position of the shade and locked in its adjusted position by a spring tongue 11, that constitutes part of the strap and which tongue engages any one of a series of notches 11' that are formed in the juxtaposed edge of the hanger leg 10.

From the foregoing description, it will be seen that the ear 7 which carries the shade

roller and curtain hanger can be adjusted longitudinally of the bracket, whereby the distance between a companion pair of said ears can be varied to accommodate the width of the shade or curtain.

When so adjusted, each ear is simultaneously locked in its adjusted position, by means of a spring dog 12, which dog is carried by the ear and the friction leg of the same is held under tension by a locking leg 12' that is arranged to be folded under a tooth 13, which is upset from the bottom of the ear 7, as best shown in Figure 2.

The means for positively adjusting the gripping wings 2 and 5 respectively to thereby snugly engage the frame element A comprises a bolt 14 which is threaded throughout its length for engagement with a nut 15 that is carried by the box-like plate 1. The bolt is formed, in this instance, with a screw head and extends through an aperture in the reinforced wing 5 being held against end play by a collar 14'. Hence, it will be seen that when the bolt is revolved, it will cause the telescopic plate members to contract or expand whereby the hanger will be adjusted to the conditions or dimensions of the window frame and will be thus firmly clamped thereto without marring the highly finished surfaces.

It is understood that we may provide the gripping wings with felt pads or the like, in some instance, to insure against injury of the woodwork. In order to simplify the construction of the sheet metal device, as a whole, we anchor the nut 15 by encasing the same in stirrup 16. Said stirrup is formed with spaced legs 17 having feet that engage and are secured to one face of the plate body 1. The body 18 of the stirrup is folded over to form a housing for the nut 15, which nut is polygonal in shape and is thus held against turning between the walls of the housing and the juxtaposed face of the plate 1, said housing having an inner extension 18' that is adapted to pass through a slot formed in the plate body 1, being thereafter folded upon it to firmly clamp the stirrup to the aforesaid plate. Thus it will be seen that a simple and economical structure, as a whole, is formed from sheet metal blanks by suitable die operations, and these parts thereafter can readily be assembled to produce a simple and economical structure, it being understood that the same must be manufactured at a minimum cost, but at the same time it must be of such rigidity as to withstand maximum strain or load, which strain is compensated for, due to the fact that the blanks are folded back and forth as described so as to insure reinforcement and great strength in proportion to the gage of metal.

While we have shown and described one exemplification of our invention in all of its

details, it is understood that such structural details may be varied within the scope of the claims.

We claim:

1. A sheet metal fixture of the class described comprising a plate, having one end thereof folded to form a gripping extension at one end and longitudinally folded to form side walls terminating with offset longitudinal runway flanges, a cover plate having one end folded to form a second gripping wing, the horizontal edges of the cover plate being folded to form open bead terminals for sliding engagement with the runway flanges of the plate, a sheet metal stirrup secured to one face of the plate, the stirrup having an apertured folded housing section, a polygonal shaped nut encased within the folded housing section, a revolvable threaded bolt mounted in the end wing and held against end movement, the bolt being in threaded engagement with the nut, a clip having its longitudinal edges grooved to slidably engage the beaded edges of the cover plate, one end of the clip being folded outwardly to form a shade roller receiving ear and a detachable curtain hanger supported by the shade ear.

2. A sheet metal fixture of the class described comprising a box-like plate, having one end thereof folded to form a gripping wing at one end and longitudinally folded to form side walls terminating with offset longitudinal runway flanges, a cover plate having one end folded to form a second gripping wing, the horizontal edges of the cover plate being folded to form open bead terminals for sliding engagement with the runway flanges of the plate, a sheet metal stirrup secured to one face of the plate, the stirrup having an apertured folded housing section, a polygonal shaped nut encased within the folded housing section, a revolvable threaded bolt mounted in the end wing and held against end movement, the bolt being in threaded engagement with the nut, a clip having its longitudinal edges grooved to slidably engage the beaded edges of the cover plate, one end of the clip being folded to form a shade roller receiving ear, a socket strap secured to the ear and a curtain pole receiving hanger having a leg in telescopic union with the strap socket.

3. A sheet metal fixture of the class described comprising a box-like plate, having one end thereof folded to form a gripping wing at one end and longitudinally folded to form side walls terminating with offset longitudinal runway flanges, a cover plate having one end folded to form a second gripping wing, the horizontal edges of the cover plate being folded to form open bead terminals for sliding engagement with the runway flanges of the plate, a sheet metal

stirrup secured to one face of the plate, the stirrup having an apertured folded housing section, a polygonal shaped nut encased within the folded housing section, a revolvable threaded bolt mounted in the end wing and held against end movement, the bolt being in threaded engagement with the nut, a clip having its longitudinal edges grooved to slidingly engage the beaded edges of the cover plate, one end of the clip being folded to form a shade roller receiving ear, a socket strap secured to the ear, a curtain pole re-

ceiving hanger having a leg in telescopic union with the strap socket, means for locking the hanger leg in adjusted position, and means for frictionally locking the ear in a predetermined adjusted position with relation to the cover plate. 15

In testimony that we claim the foregoing we have hereunto set our hands at Milwaukee, in the county of Milwaukee and State of Wisconsin. 20

MIKE HARVOZINSKI.
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