UNITED STATES PATENT OFFICE.

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ADJUSTABLE WINDOW-CURTAIN BRACKET.


To all whom it may concern:

Be it known that I, EMIL C. ROSENCRANZ, a citizen of the United States, residing at Evansville, in the county of Vanderburgh and State of Indiana, have invented certain new and useful improvements in Adjustable Window-Curtain Brackets, of which the following is a specification.

This invention relates to window shade brackets and has for its object the provision of a comparatively simple and thoroughly efficient device of this character capable of being readily attached to a window frame or casing and which may be quickly and conveniently adjusted to accommodate shades of different widths without in any manner cutting, perforating or otherwise marring said window frame or casing.

The invention further aims to provide an adjustable shade bracket including supporting members having a series of transverse slots formed therein and adapted to receive a locking tongue on the base of the bracket whereby to permit longitudinal adjustment of said bracket with respect to the supporting member, means being provided for locking the bracket against tilting movement after adjustment thereof has been effected.

The invention further contemplates the provision of a bracket which will permit a shade roller to be readily positioned between a pair of said brackets or removed therefrom without the necessity of forming one of the brackets with the usual slot to accommodate the squared stud of the roller or without disturbing the supporting member of said bracket.

A still further object is generally to improve this class of devices so as to increase their utility, durability and efficiency.

In the accompanying drawings:

Figure 1 is a front elevation of a pair of adjustable window shade roller brackets embodying the present invention showing the same applied to a window frame;

Figure 2 is an elevation of one of the supporting members, the bracket thereon being shown partly in section;

Figure 3 is a longitudinal sectional view of Figure 2 showing the bracket locked in adjusted position;

Figure 4 is a similar view showing the bracket tilted laterally to release the locking tongue from the slots in the supporting member to permit longitudinal adjustment of the bracket with respect to the supporting member;

Figure 5 is a transverse sectional view taken on the line 5—5 of Figure 3 and looking in the direction of the arrows;

Figure 6 is a similar view taken on the line 6—6 of Figure 3;

Figure 7 is a detail perspective view of one of the brackets detached.

The improved device forming the subject matter of the present invention includes a pair of supporting members 5 each preferably stamped or otherwise formed from a single sheet of metal the opposite longitudinal edges of which are bent or folded inwardly to form parallel guide flanges 6 and the opposite ends thereof extended beyond said flanges to produce attaching ears 7 which bear flat against the window frame 8 and are rigidly secured thereto by screws or similar fastening devices 9. Each supporting member is provided with a longitudinal reinforcing rib 10 having a plurality of transverse slots 11 formed therein for the purpose hereinafter referred to. Slidably mounted for longitudinal adjustment between the guide flanges 6 of the supporting member are shade roller brackets 12 and as said brackets are identical in construction with the exception that one of the brackets has a round opening 13 formed therein and the other a square opening 15 a description of one will suffice for both.

Each bracket comprises a shank 14 terminating in a substantially circular concavo-convex head 15 and provided with a flat base portion 16 disposed at substantially right angles to the shank 14 and adapted to fit between the flanges 6 of the supporting member. Each base is provided with a raised portion 17 to adapt it to fit over and accommodate the rib 10 on the adjacent supporting member, and the metal at the end of the rib 17 is bent or deflected laterally to form a depending locking tongue 18 adapted to enter any one of the transverse slots 11 so as to permit adjustment of the bracket longitudinally of the supporting member to accommodate window shades of different widths. The base 16 of each bracket is provided with upstanding lugs 19 the upper edges of which bear against the lower faces of the flanges 6 and arranged directly above said lugs 110 and extending laterally from the opposite longitudinal edges of the shank 14 are
spaced ears 20 preferably disposed at substantially right angles to the lugs 19 and spaced vertically therefrom a distance approximately equal to the thickness of the flanges 6 to accommodate the latter.

Pivotedly mounted at 21 on the outer face of the shank 14 of each bracket is a locking member 22 having its free end provided with a cam face 23 terminating in a laterally directed finger piece or handle 24 so that by pressing downwardly on the finger piece 24 the cam face 23 will be moved into contact with the upper faces of the flanges 6 and lock the bracket in adjusted position.

In using the device, the shade roller with the shade thereon is positioned between the brackets with the round stud at one end of the roller fitting in the circular bearing opening 13 in the right hand bracket after which the finger piece 24 is depressed to lock said right hand bracket and the left hand bracket adjusted the proper distance with respect to the right hand bracket and the squared stud on the roller inserted in the square opening of said left hand bracket. The finger piece 24 of the left hand bracket is then depressed which causes the cam face 23 of the locking member to bear against the flanges 6 thereby locking the left hand bracket in position on its supporting member and effectually preventing displacement of the shade. In order to release the window shade the locking member 22 is swung upwardly out of engagement with the flanges 6 and the head 15' of the bracket pressed inwardly against the adjacent end of the roller which causes the bracket to tilt on its supporting member so as to release the locking tongue from engagement with the adjacent opening 11 whereupon by exerting a slight forward pressure on the base of the bracket, the latter may be adjusted longitudinally of its supporting member so as to clear the shade roller and permit the same to be conveniently removed from the mating bracket. It will thus be seen that the lugs 19 in conjunction with the ears 20 in effect a fulcrum or pivot upon which the bracket rocks when releasing the shade roller therefrom and that the cam face 23 of the locking member by engagement with the upper faces of the flanges 6 serves to hold the locking tongue 18 within the slot 11 and prevent tilting movement of the bracket after adjustment thereof has been effected.

It will furthermore be noted that owing to the tilting movement of the bracket with respect to its supporting member, a shade roller may be readily suspended between a pair of said brackets without the necessity of forming one of the brackets with a peripheral slot to permit the passage of the squared stud on the shade roller or without the necessity of disturbing the supporting member or in any manner scratching, perforating or otherwise marring the window frame.

While the device is shown supported on a window frame it will, of course, be understood that the bracket supporting members may be attached directly to the window casing and that if desired the outer ends of said supporting members may be bent laterally over the adjacent edges of the window casing without departing from the spirit of the invention.

Having thus described the invention, what is claimed as new is:

1. A window shade bracket including a supporting member having spaced longitudinal guide flanges and an intermediate reinforcing rib provided with transverse slots, a bracket slidably and tiltably mounted on the supporting member between said flanges and provided with a portion of a depending locking lug adapted on tilting the bracket to enter any one of the transverse slots, and a locking device carried by the bracket and movable into engagement with the flanges for holding the bracket against tilting movement after adjustment.

2. A window shade bracket including an attaching member having spaced longitudinal guide flanges, a bracket adjustable longitudinally of the supporting member and including a base portion having shoulders adapted to bear against the lower faces of the adjacent flanges, and laterally extending ears adapted to bear against the upper faces of said flanges, a locking tongue formed on the base of the bracket for engagement with suitable slots in the supporting member, the lugs and ears coacting to form a fulcrum for the bracket to permit said bracket to be tilted laterally to release the locking tongue from the slots in the supporting member, and a locking device carried by the bracket and adapted to bear against the flanges for preventing tilting movement of the bracket after adjustment.

3. A window shade bracket including a supporting member having spaced longitudinal guide flanges and an intermediate rib formed with transverse slots, a bracket adjustable longitudinally of the supporting member and including a shank having a base portion arranged at substantially right angles thereto and provided with a raised portion adapted to fit over the rib of the supporting member, a locking tongue depending from the end of the raised portion and adapted to fit in any one of the transverse slots in the supporting member, and a locking lever pivotally mounted on the shank of the bracket and provided with a finger piece, said locking lever being formed with a cam face movable into engagement with the flanges for holding the bracket in adjusted position.
4. The combination with a window frame, of spaced supporting members permanently secured thereto and each provided with a series of transverse slots, brackets adjustable longitudinally with respect to the supporting members and each including a base portion having a depending locking tongue adapted to enter the slots in the supporting member, and an upstanding shank terminating in a shade roller supporting head, said brackets each having a limited lateral tilting movement with respect to the adjacent supporting member, and locking devices carried by the shanks of the brackets and movable into engagement with the supporting members for locking said brackets against tilting and longitudinal movement with respect to the supporting members.

In testimony whereof I affix my signature.

EMIL C. ROSENCRANZ.