To all whom it may concern:

Be it known that we, HENRY DITTEMANIER and SVEN ERIKSON, citizens of the United States of America and of New York, New York, have invented certain new and useful Improvements in Window-Shade Mountings, of which the following is a specification.

Our invention relates to means for mounting the shade-roller on the upper part of the upper sash so that when the upper sash is lowered the shade will be lowered with it, and thus will not obstruct the circulation of air as when the said roller is mounted on the window-frame in the usual manner; and our invention consists of improved means of connecting displaceable roller-supporting arms of the shade-supporting brackets employed to enable the lower sash to be raised higher for cleaning than it can be with non-displaceable arms, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is a vertical section of the upper part of the upper sash with our improved shade-roller-supporting bracket applied and shown in part in vertical section with dotted lines illustrating the mode of connecting and disconnecting the displaceable arm of the bracket. Fig. 2 is a front elevation of the part of the upper sash shown in Fig. 1 and the base-plate of the roller-supporting bracket, the arm of said bracket being displaced. Fig. 3 is a rear or inside elevation of the said base-plate. Fig. 4 is a detail in cross-section of Fig. 1 on line 44.

A represents the upper part of the right-hand stile of a window-sash, and a part of the meeting-rail.

b represents the base-plate, and c the supporting-arm of a bracket for mounting the shade-roller on the sash so that the shade can be shifted up and down with the sash to avoid obstructing ventilation by the shade as when the shade-roller is mounted on the window-frame in the usual way. In so mounting the shade-roller on the sash it is necessary to displace the arms of the supporting-brackets of the shade-roller when it is desired to shift the sashes suitably for convenient reach of the upper outside part of the lower sash for washing and cleaning the glass. We prefer for this purpose to employ such brackets consisting of a base-plate b, permanently attached to the sash, and an arm c, readily attachable to and detachable from the base-plate by means of hook-and-stud connections of the character represented in the drawings—that is, a fixed hook d on the heel of the arm engaging a slot e in the base-plate, a stud f at the upper corner of the bracket entering a slot g of the base-plate, and a lever-hook h, pivoted at i on the top of the arm, engaging in a slot j of the base-plate and when hooked in the slot springing at its free end over a retaining-spur k, struck upward of the surface of the arm over which the lever-arm l of the hook swings when engaging the hook; these devices being, as thus far described, practically the same as represented in our pending application for Letters Patent filed February 23, 1904, Serial No. 194,731, in which we represent a flat base-plate for receiving the connecting hooks and spur, making it necessary to cut slots in the surface of the sash to provide spaces for the hook-heads, which we now propose to avoid by constructing the base-plate b with a chamber l or chambers in the inner surface in suitable relation to the slots for the hooks for allowing space for the hook-heads above the surface of the wood, thus making it unnecessary to cut spaces in the wood for them.

The base-plates may of course be made in cast metal with the chambers produced in the castings; but we prefer to stamp them in thin plate stock, making the protuberant parts m a on the outer surface with the chamber or chambers for the hook-heads behind.

Besides using less metal, this method of construction affords by reason of the stamped form stronger and more reliable plates.

What we claim as our invention is—

The improved shade-roller-supporting bracket comprising an attaching base-plate and a roller-supporting arm detachably connected to each other for displacing the arm when the base-plate is attached to the sash, said detachable connection consisting of hook-
engaging slots in the base-plate communicating with inwardly-chambered parts of said plate, and hook-headed devices of the arm engaging said slotted and inwardly-chambered parts, with clearance of the hook-heads from the surface of the sash on which the base-plate is attached, one of said hook-heads being carried on a lever pivoted on the supporting-arm to be shifted into engagement with the base-plate after said arm is placed in position, and provided with an automatically-engaging retaining device.

Signed at New York this 29th day of April, 1904.

HENRY DITTENHEIMER.
SVEN ERIKSON.

Witnesses:
C. SEDGWICK,
J. M. HOWARD.