No. 736,992. PATENTED AUG. 25, 1903.

W. E. MESSACAR.

COMBINED AWNING AND WINDOW SHADE.

APPLICATION FILED AUG. 16, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

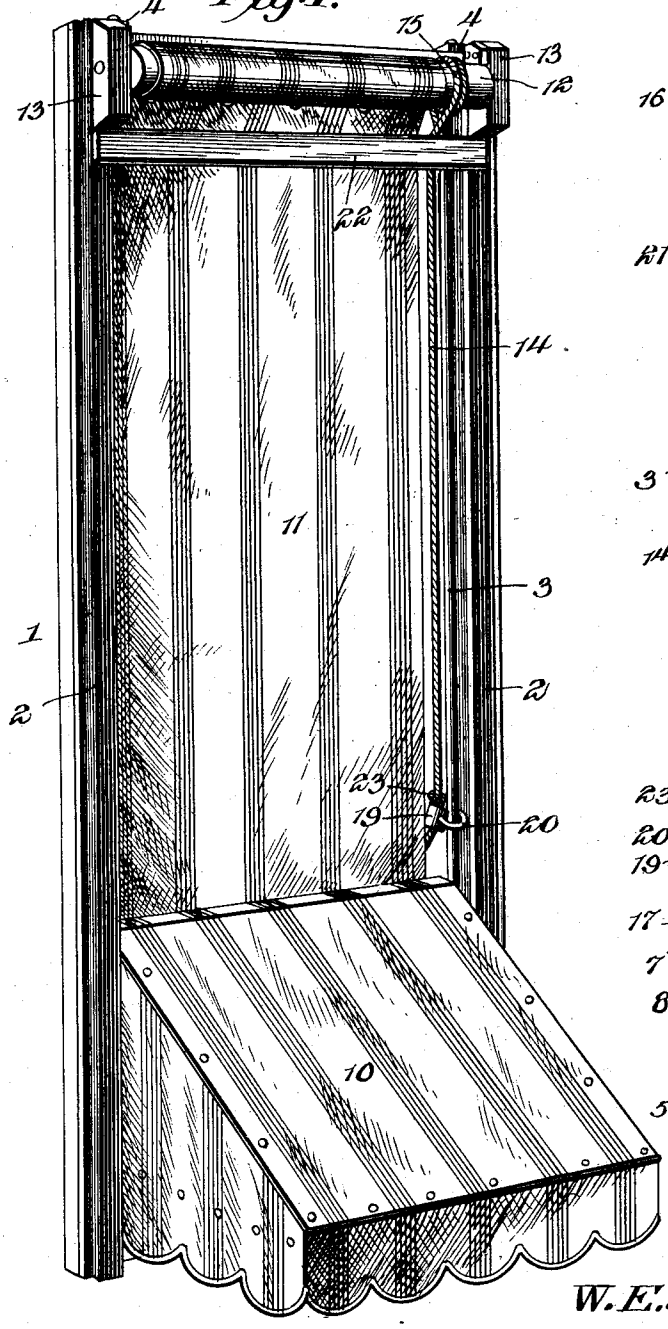
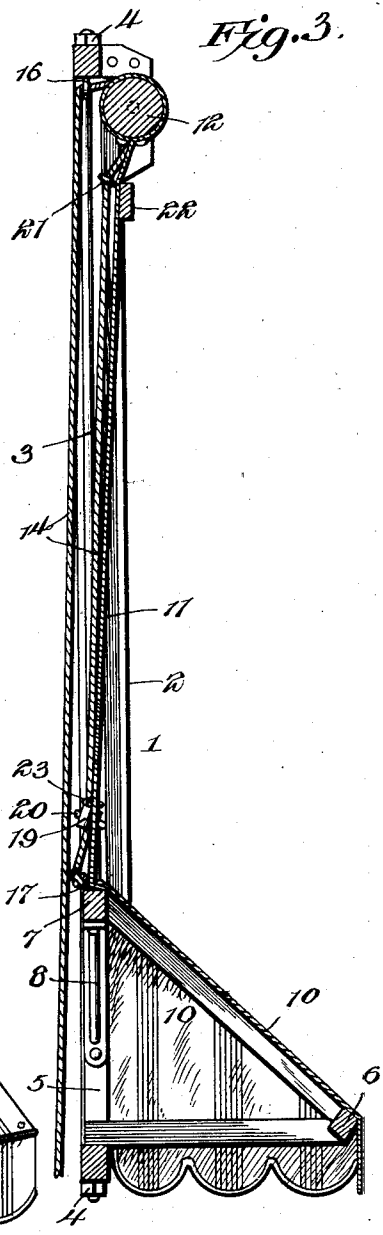


Fig. 3.



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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 2.

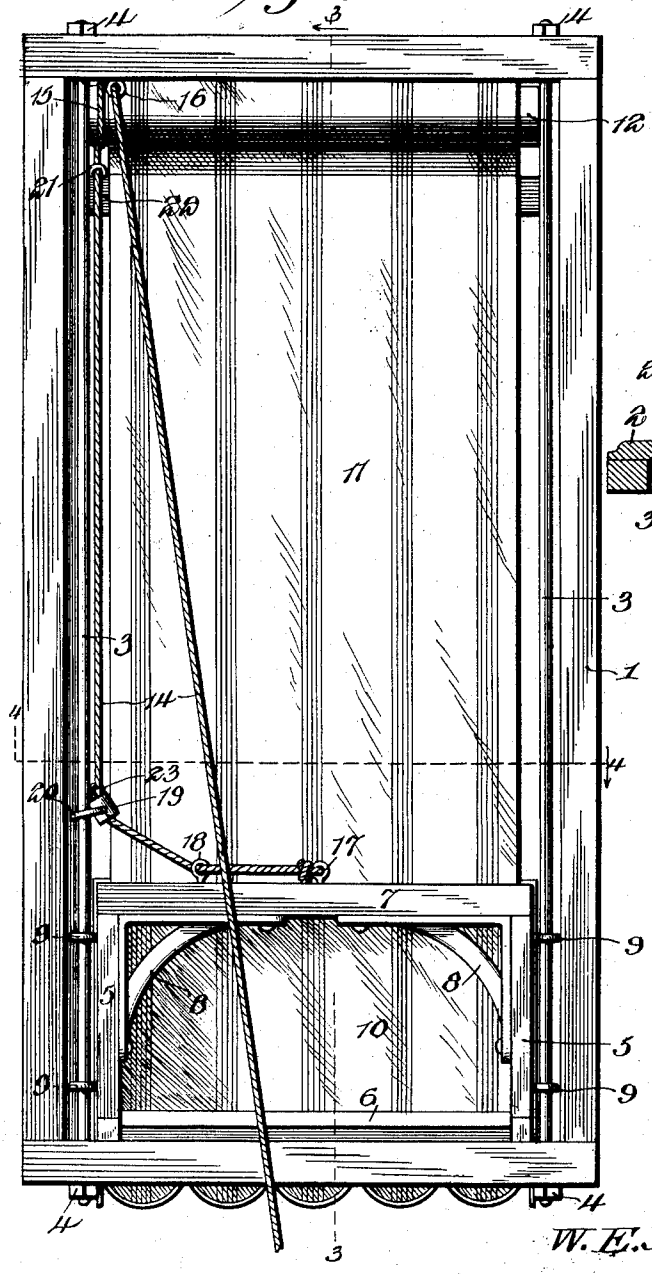


Fig. 4.

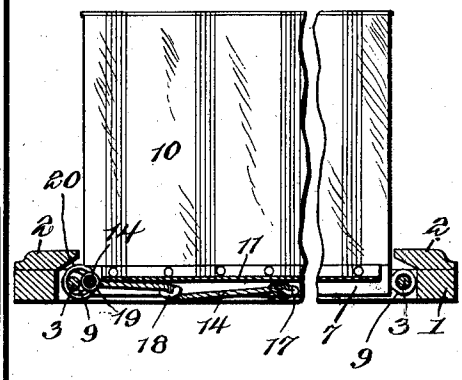
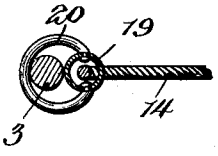


Fig. 5.



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No. 736,992. Patented August 25, 1903.

UNITED STATES PATENT OFFICE.

WILLIAM E. MESSACAR, OF ALBION, MICHIGAN.

COMBINED AWNING AND WINDOW-SHADE.

SPECIFICATION forming part of Letters Patent No. 736,992, dated August 25, 1903.

Application filed August 16, 1902. Serial No. 119,966. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. MESSACAR, a citizen of the United States, residing at Albion, in the county of Calhoun and State of Michigan, have invented a new and useful Combined Awning and Window-Shade, of which the following is a specification.

This invention relates to combined awnings and window-shades, and is designed to provide an improved device of this character which is arranged to be conveniently applied to and removed from a window-frame, so that it may be readily put up when desired and removed when not required to shade the window.

It is furthermore designed to provide for elevating the awning and winding the shade upon a roller and to perform these operations simultaneously, so that the awning and shade may be raised and lowered at the same time and by the manipulation of a single controlling device.

Another object is to insure the tight winding of the shade upon the shade-roller and also to prevent rattling of the awning-frame upon the main supporting-frame.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a combined awning and window-shade embodying the features of the present invention. Fig. 2 is an inside or rear elevation thereof. Fig. 3 is a longitudinal sectional view on the line 3 3 of Fig. 2. Fig. 4 is a cross-sectional view on the line 4 4 of Fig. 2. Fig. 5 is an enlarged detail sectional view to show the slidable connection between the operating-rope and one of the guides.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

Referring to the accompanying drawings, it will be seen that the present device has a main stationary supporting-frame 1, which is rectangular in form and is designed to be made in different sizes, so as to fit any size of window. Upon the front sides of the upright pieces of the frame are secured upright molding-strips 2, which project a suitable distance beyond the inner edges of the side pieces, as plainly indicated in Fig. 4 of the drawings, the rear or inner faces of the projected portions of the molding being beveled inwardly to the frame. Near the inner edge of each side piece of the frame and in the angle between the same and the adjacent molding is an upstanding metallic rod 3, which is spaced from the frame and the molding and has its opposite ends projected through the top and bottom end pieces of the frame with the ends of the rod provided with heads, preferably in the form of nuts 4, which are screwed tight against the frame, so as to hold the rods rigidly in place and also stiffen and strengthen the frame.

Within and projected outwardly from the main frame is an awning-frame comprising opposite skeleton triangular end members 5, which are connected at their lower outer ends by a lower cross-bar 6 and an upper cross-bar 7, there being suitable angle-brackets 8, connecting the upper cross-bar with the upstanding parts of the end members, thereby forming a rigid awning-frame. A pair of guide loops or eyes 9 are carried by the upright part of each triangular end member and loosely embrace the adjacent guide-rod 3, so as to guide the awning-frame in its vertical movement. It will here be observed that the projected inner edge portions of the molding-strips 2 come very close to the end pieces of the awning-frame, so as to close the spaces between the ends of said frame and the main frame, thereby to prevent the entrance of wind and hence prevent rattling of the awning-frame. The front side of the awning-frame is covered with an awning or canopy 10, which is stretched tightly over the frame and also over the ends thereof, so as to form an inclosed awning of the ordinary shape.

The material of the canopy rises from the awning-frame so as to form a curtain or shade 11, the upper end of which is wound upon a roller 12, which is mounted in suitable bearing-brackets 13, carried by the front of the main frame and at the upper end thereof, so

that when the awning is being elevated the shade or curtain is wound upon the roller.

It will of course be understood that it is desirable to wind the shade or curtain upon the roller simultaneously with the vertical movement of the awning in order that the slack of the shade may be taken up, and this is accomplished by means of a manipulating-cord 14, the lower end of which is in convenient reach from the inside of the window-frame, with its intermediate portion wound upon one end of the roller, as indicated at 15, and its opposite end connected to the awning, so that by pulling downwardly upon the free end of the cord the awning will be elevated and the roller rotated. In order that there may be an effective pull of the cord upon the roller, the former is passed rearwardly or inwardly through a guide 16, which depends from the upper cross-bar of the frame, and when the latter is secured to the outside of a window-frame (not shown) by means of fastenings set through the frame 1 and into the window-casing the cord may be passed through an opening formed in the top of the window-casing, so as to enter the room, or it may hang down across the outer sides of the window-sashes.

As best indicated in Fig. 2, it will be seen that one end of the cord is rigidly connected to the upper cross-bar of the awning-frame at a point substantially midway of its ends, as indicated at 17, and is then passed loosely through an eye 18, set in the top of the frame and near one end thereof, from which the cord is passed upwardly through an eye 19, which is provided with a swiveled or pivotal ring or loop 20, that is slidably mounted upon the adjacent rod 3. From the eye 19 the cord passes upwardly and works through a guide 21, carried by the rear side of a cross-bar 22, secured across the front side of the supporting-frame 1 just below the roller 12 and bearing against the front of the shade or curtain, so as to form a tension device to insure a tight or snug winding of the shade upon the roller. A suitable stop—as, for instance, a knot 23—is provided upon the cord and disposed in engagement with the upper side of the eye 19, so that when the free end of the cord is released the weight of the awning-frame will draw the cord downwardly and the knot or stop will carry the eye or guide 19 downwardly upon the guide-rod 3.

It will here be noted that as the cord has one end secured to the awning-frame and its intermediate portion wound upon the roller the latter and the awning will be simultaneously operated by the single operating-cord in a very convenient and effective manner.

By fastening one end of the cord at about the middle of the awning-frame and then passing the same loosely through a guide near one end of the frame the pull of the cord is more evenly distributed throughout the frame, whereby the latter is not twisted, and therefore is not jammed upon the guide-rods, as would be the case if the cord was connected directly to one end only of the awning-frame.

From the foregoing description it is apparent that the present device is complete in itself and may be put up and taken down as a whole, as the main frame 1 is designed to be nailed or screwed to a window-casing, and the guide-rods, the roller, the awning, and the shade are all mounted upon the main frame and need not be removed or disturbed in any manner whatsoever when putting up and taking down the device, whereby the latter is always in condition for use, and therefore it is not required to be taken apart except for overhauling and repairs.

What I claim is—

1. A combined awning and window-shade, comprising a rectangular frame detachably secured to a window-casing, a roller mounted at the top of the frame, guides spaced from the sides of the frame and terminally secured to the opposite ends thereof and holding the frame together, an awning slidably mounted upon the guides, a shade rising from the awning and connected to the roller, and means for simultaneously elevating the awning and rotating the roller to wind the shade thereon.

2. A combined awning and window-shade, comprising a rectangular frame adapted to be secured to a window-casing, guide-rods spaced from the inner faces of the sides of the frame and terminally secured to the ends thereof and holding the parts of the frame together, an awning working between the guide-rods and having guides slidably embracing the rods, a roller mounted at the upper end of the frame, a shade rising from the awning and connected to the roller, and means for simultaneously elevating the awning and rotating the roller to wind the shade thereon.

3. A combined awning and window-shade, comprising a frame adapted to be secured to a window-casing, headed guide-rods spaced from the inner faces of the side pieces of the frame and piercing the ends of the frame, nuts applied to the ends of the rods to hold the same in place, an awning working between the rods and having guides slidably embracing the same, a roller mounted at the upper end of the frame, a shade rising from the awning and connected to the roller, and means for simultaneously elevating the awning and turning the roller to wind the shade thereon.

4. The combination with a frame designed to be mounted on the exterior of a window, and a vertically-slidable awning, of a roller mounted above the awning, a shade rising from the awning and connected to the roller, means for rotating the roller to wind the shade thereon when the awning is being elevated, and a tension device mounted on the frame and arranged frictionally engaging the shade and binding against the same to stretch the said shade on the roller for winding the shade snugly upon the roller.

5. The combination with an oblong frame designed to be mounted on the exterior of a window, and a vertically-movable awning, of a roller mounted above the awning, a shade rising from the awning and connected to the roller, means for turning the roller to wind the shade thereon when the awning is being elevated, and a cross-bar extending across the frame and frictionally engaging the shade and binding against the same to stretch the said shade on the roller and forming a tension device to wind the shade snugly upon the roller.

6. In a combined awning and window-shade, the combination of a rectangular frame adapted to be secured to a window-casing, an awning mounted to slide vertically upon the frame, a roller mounted upon the upper end of the frame, a shade rising from the awning and connected to the roller, means for turning the roller to wind the shade thereon when the awning is being elevated, a cross-bar secured across the frame adjacent to the lower side of the roller and in frictional engagement with the shade to form a tension device therefor, said cross-bar being arranged to bind against the shade to stretch the same on the said roller.

7. In a combined awning and window-shade, the combination of a rectangular frame designed to be secured to the exterior of a window, a vertically-slidable awning, a roller mounted on the frame and located above the awning, a shade rising from the awning and connected to the roller, and means connected to both the roller and the awning for simultaneously elevating the awning and turning the roller to wind the shade thereon.

8. In a combined awning and window-shade, the combination of a rectangular frame designed to be mounted on the exterior of a window, a vertically-movable awning provided with a rigid supporting-frame slidably connected with the said frame, a roller mounted above the awning, a shade rising from the awning and connected to the roller, and an operating-cord connected to the awning and also wound upon the roller for simultaneously elevating the awning and turning the roller to wind the shade thereon.

9. In a combined awning and window-shade, the combination of a vertically-disposed guide, a vertically-movable awning slidably mounted upon the guide, a roller mounted above the awning, a shade rising from the awning and connected to the roller, a manipulating-cord having one end connected to the awning and an intermediate portion wound upon the roller, and a vertically-movable guide mounted upon the upstanding guide and engaging that portion of the cord which leads from the awning to the roller.

10. In a combined awning and window-shade, the combination of opposite upstanding stationary guides, an awning mounted to slide upon the guides, a roller mounted above the awning, a shade rising from the awning and connected to the roller, a manipulating-cord having one end connected to the awning and an intermediate portion wound upon the roller, a ring slidably mounted upon one of the stationary guides, and a sleeve or eye pivoted to the ring and receiving that portion of the cord which leads from the awning to the roller.

11. In a combined awning and window-shade, the combination of opposite upstanding stationary guides, an awning mounted to slide upon the guides, a roller mounted above the awning, a shade rising from the awning and connected to the roller, a manipulating-cord having one end connected to the awning and an intermediate portion wound upon the roller, a ring slidably mounted upon one of the stationary guides, a sleeve or eye pivoted to the ring and receiving that portion of the cord which leads from the awning to the roller, and a stop carried by the cord and in engagement with the top of the eye.

12. In a combined awning and window-shade, the combination of opposite upstanding stationary guides, an awning mounted to slide upon the guides, a roller mounted above the awning, a shade rising from the awning and connected to the roller, a manipulating-cord having one end connected to the awning and an intermediate portion wound upon the roller, a ring slidably mounted upon one of the stationary guides, a sleeve or eye pivoted to the ring and receiving that portion of the cord which leads from the awning to the roller, and a stop consisting of a knot formed in the cord and lying against the top of the eye.

13. In a combined awning and window-shade, the combination of opposite upstanding stationary guides, a vertically-movable awning slidably mounted upon the guides, an elevating-cord supported above the awning adjacent to one of the guides and connected to the top of the awning at a point substantially midway between its ends, a guide slidably mounted upon that stationary guide which is adjacent to the cord and engaging the latter, and a guide carried by the upper portion of the awning and receiving that portion of the cord which extends from the awning to the slidable guide.

14. The combination of a frame, opposite upstanding stationary guides carried thereby, a vertically-movable awning slidably mounted upon the guides, a roller mounted above the awning, a shade rising from the awning and connected to the roller, a manipulating-cord having an intermediate portion wound upon one end of the roller, and one end connected to the top of the awning substantially midway between the ends thereof, a guide slidably mounted upon the stationary guide which is adjacent to the cord and engaging the latter, and a guide carried by the awning and receiving that portion of the cord which extends from the awning to the slidable guide.

15. The combination with a frame, of a vertically-slidable awning mounted thereon, a

roller mounted above the awning, a shade rising from the awning and connected to the roller, a cross-bar secured across the frame in frictional engagement with the shade at a point below and adjacent to the roller, a guide upon the upper end of the frame and at one side thereof, another guide upon the cross-bar, and a manipulating-cord wound upon one end of the roller with its free portion passed through the guide upon the upper end of the frame, and its other portion passed downwardly through the guide upon the cross-bar and connected to the awning.

16. The combination with a rectangular frame adapted to be secured to a window-casing, guide-rods spaced from the inner faces of the sides of the frame and terminally connected to the ends thereof, an awning disposed between the rods and having guides slidably embracing the same, a roller mounted at the top of the frame, a shade rising from the awning and connected to the roller, a cross-bar secured to the frame adjacent to and below the roller and in frictional engagement with the shade, a guide carried by the upper end of the frame near one end of the roller, another guide carried by the cross-bar, a manipulating-cord intermediately wound upon one end of the roller with its free portion passed through the guide on the frame and its other portion passed downwardly through the guide on the cross-bar and secured to the awning, and a guide slidably mounted upon that guide-rod which is adjacent to the cord, said guide being connected to that portion of the cord which leads from the awning to the roller.

17. The combination with a frame, of a vertically-movable awning mounted upon the frame and embodying skeleton triangular end members, an upper cross-bar connecting the members, and a lower cross-bar connecting the fronts of the members, a canopy stretched over the frame, a roller mounted above the awning, a shade rising from the awning and connected to the roller, and a manipulating-cord having an intermediate portion wound upon the roller and one end connected to the awning-frame.

18. In a combined awning and window-shade, the combination of an approximately rectangular frame adapted to be applied to the exterior of a window and provided with vertical guides, a vertically-movable shade, a roller mounted on the frame and receiving the shade, an awning having a rigid supporting-frame slidably mounted on the guides, said awning being connected with the shade, and operating mechanism also carried by the frame for operating the shade and the awning, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM E. MESSACAR.

Witnesses:
MONFORT D. WEEKS,
ADRIAN F. COOPER.