

No. 728,216.

PATENTED MAY 19, 1903.

O. A. ESSIG.  
WINDOW CURTAIN ATTACHMENT.

APPLICATION FILED AUG. 18, 1902.

NO MODEL.

Fig. 1

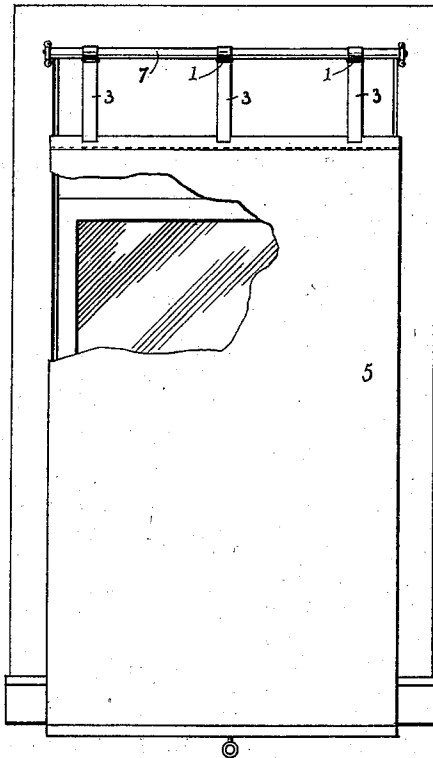


Fig. 2

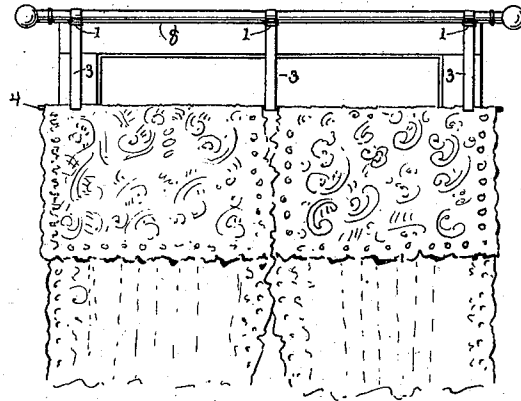


Fig. 3

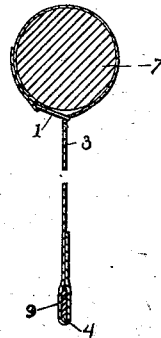


Fig. 6 Fig. 5

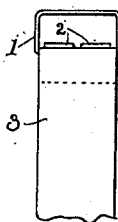
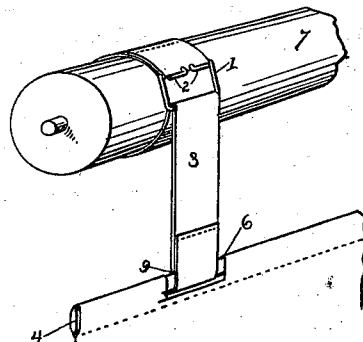


Fig. 4



WITNESSES:

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# UNITED STATES PATENT OFFICE.

OZIA A. ESSIG, OF CANTON, OHIO.

## WINDOW-CURTAIN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 728,216, dated May 19, 1903.

Application filed August 18, 1902. Serial No. 120,047. (No model.)

*To all whom it may concern:*

Be it known that I, OZIA A. ESSIG, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Window-Curtain Attachments; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a side view showing the shade brought into proper position for ventilating purposes and illustrating the shade broken away to show the position of the window-sash. Fig. 2 is a view showing my improved device connected to a lace curtain and illustrating the curtain rolled from the curtain-pole. Fig. 3 is a transverse section of the curtain-pole, also a transverse section of the tape, showing tape properly connected to the shade and to the curtain-pole. Fig. 4 is a view showing a portion of a shade-roller and illustrating one of the shade-attaching tapes secured to the roller and to the shade. Fig. 5 is a view showing a portion of one of the shade-attaching tapes and illustrating the same connected to the roller or pole loop. Fig. 6 is a detached view of the tape-connecting loop, showing the position of same before the tape is attached thereto.

The present invention has relation to window-curtain attachments designed either for window-shades or lace curtains; and it consists in the novel construction hereinafter described, and particularly pointed out in the claim.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the metallic loop, which is provided with the inturned tangs 2. Said inturned tangs are for the purpose of being extended through the material of the curtain or shade holding tangs 3 and are bent over and upon the material of the tapes, as illustrated in Fig. 5, by which arrangement the loops are securely attached to the tapes and in such a manner that there can be no slipping or gathering together of the material of any particular tape.

It will of course be understood that a portion of the tape should be folded over and upon itself and said folded portion properly seamed or otherwise connected, as it is immaterial whether the overlap portion be seamed or held by rivets or any other suitable device.

The shade-rod 4 is preferably formed of metal, and for the purpose of preventing the rod from cutting the material of the shade the edges should be rounded, as illustrated in the drawings.

The rod 4 is formed from ordinary round wire, the wire being flattened by passing the same through a set of rollers spaced the proper distance apart to give the finished rod its desired thickness and stiffness, leaving the edges rounding. By this arrangement the bar is formed of such a shape that it will properly support the shade without increasing the thickness of the rod.

A convenient way to form the rods 4 is to take ordinary round wire of sufficient size and flatten the wire upon opposite sides, by which arrangement a rod of suitable shape and size is provided.

It will be understood that the upper end of the shade 5 is to be hemmed, so as to properly take in or inclose the rod 4.

For the purpose of providing a means for attaching the shade-connecting ends of the tapes 3 notches, such as 6, are cut or formed in the shade, so as to expose the rod 4 and provide a means for connecting the tapes 3 in such a manner that the strain or any downpull of the shades will not come upon the material of the shade, but will come upon the rod 4.

In use, the various tapes 3 after the loops 1 have been properly attached to said tangs, the upper ends are placed around the roller 7 or around the pole 8, as the case may be, and said tapes passed through the loops, so that a downpull of the tapes will bind the portion of the tapes surrounding the roller or pole thereon, and as the roller 7 is rotated the various tapes will be wound around the roller, and by a continuous rotation of the roller the shade 5 will also be wound upon the roller in the same manner that the shade would be wound around when connected by tacks, as has heretofore been done.

The object and purpose of providing tapes of a length sufficient to provide a space between the bottom or under side of the roller 7 and the top of the shade 5 is to provide for ventilation and the length of the tapes being regulated with reference to the amount of ventilation desired.

It will be understood that when no ventilation is desired the shade 5 is not entirely unwound from the roller 7, this feature being a matter of judgment only, and no reference need be made as to any given length of the tapes.

In attaching shades to rollers it is very desirable to have the top or upper end of the shade perfectly parallel with the roller 7, so that as the shade is wound upon the roller it will not run endwise upon the roller.

The parallelism between the upper end of the shade 5 and roller 7 is regulated by bringing the loops 1 in proper alignment one with the other throughout the entire length of the roller 7, the alignment of the various loops being brought about by moving the loops together with the portion of the tapes supporting the roller upon the periphery thereof, or, in other words, slipping the loop and the portion of the tape in either direction upon the roller. It will, however, be understood that when the various tapes are brought into position illustrated in Fig. 4 a downpull of the tapes will tighten the same upon the roller, and thereby prevent any slipping of the tapes upon the rollers.

In connecting the various tapes to the shade 5 the rod 4 is passed through the hem of the shade and also through the loops 9, formed in the bottom or lower ends of the various tapes 3.

By my peculiar manner of attaching shades to rollers I am enabled to entirely dispense with tacks, so that I am able to connect a shade to a metal roller or to a wooden one, as desired. I am also enabled to attach the shade to a wooden roller having located therein a spring without danger of injuring

the roller and also without danger of the inner ends of the tacks interfering in any manner with the spring located therein.

In Fig. 2 I have illustrated my improved device attached to an ordinary lace curtain, the pole proper being the same as that employed in attaching the one window-shade; but it is not absolutely necessary for lace curtains to have the top or upper ends come below the pole 8. However, I have illustrated this feature to show that it may be done if desired.

By looping the tapes 3 around the roller and passing the same through the metallic loops 1 and securing said tapes by means of the inturned tangs 2 the tapes will be drawn tightly around the roller when the roller is rotated in the direction to pull the metal loops to the left, as indicated in Fig. 3; but when the roller is rotated in the opposite direction the metal loops will be free to move upon the tapes, by which arrangement the portions of the tapes surrounding the roller will be loosened, and thereby allow all of the tapes to be brought into perfect alignment or adjustment and bring the shade into a true vertical position or at right angles to the roller.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A window-shade having connected thereto a bar, tapes connected to the bar, loops provided with tangs and the tangs extended through the tapes and bent toward the outer edges of the tapes, the tapes passed through the loops and a roller, the tapes located around said roller, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OZIA A. ESSIG.

Witnesses:

F. W. BOND,

HUBERT C. PONTIUS.