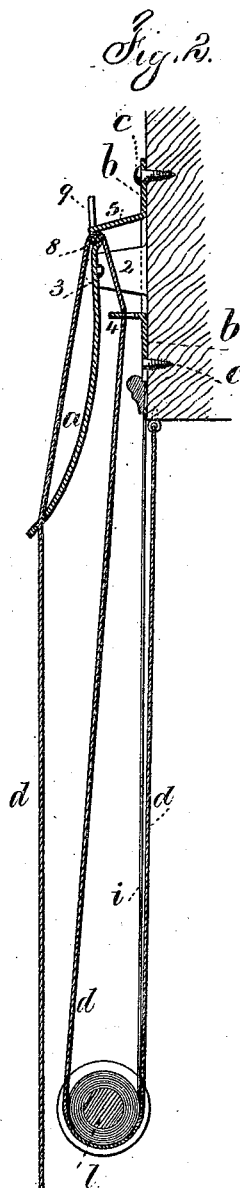
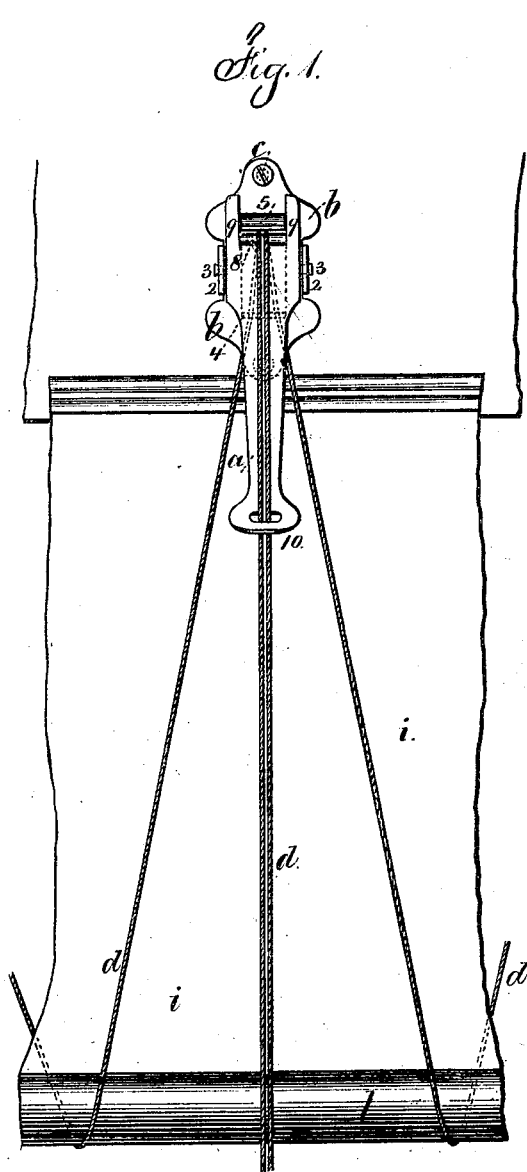


F. A. VREDENBURGH.
CURTAIN-FIXTURES.

No. 180,291.

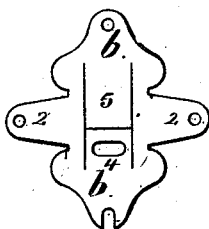
Patented July 25, 1876.



Witnesses

Chas. H. Smith
Harold Ferrill

Fig. 3.



Inventor

F. A. Vredenburg
per Lemuel W. Ferrill

att.

UNITED STATES PATENT OFFICE

FREDERIC A. VREDENBURGH, OF CARMEL, NEW YORK.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **180,291**, dated July 25, 1876; application filed May 29, 1876.

To all whom it may concern:

Be it known that I, FREDERIC A. VREDENBURGH, of Carmel, in the county of Putnam and State of New York, have invented an Improvement in Shade-Fixtures, of which the following is a specification:

This invention relates to that class of curtain or shade fixtures in which the curtain is attached at the top, and provided with a roller at the bottom, that is revolved as the curtain is rolled up or lowered down. The curtain or shade may be of paper, muslin, or other material.

The improvement relates to a holder for the cord, whereby the cord can be easily moved in rolling up the shade or lowering the same, or clamped at any desired point to hold the shade.

In the drawing, Figure 1 is an elevation of the shade and cord holder. Fig. 2 is a section of the same; and Fig. 3 shows the shape in which the cord-holder plate is cut, so that it may be bent up to receive the lever.

The cord holder is made of two principal parts—the lever *a* and the plate *b*. These are preferably of sheet metal, and the plate *b* is cut out in the general shape shown in Fig. 3. The two ears 2 2 are bent up to receive the fulcrum 3 of the lever. The eye 4 for the cords is from the central part of the sheet, and bent up at right angles to the rest of the plate, and the spring clamping-tongue 5 is also from the center part of the plate, bent the opposite way to the eye 4. The pins or screws *c* serve to attach the plate *a* to the window-frame. The lever *a* is forked at the end, and the sheet metal rolled over to form a bearing, 8, for the

cord to clamp it against the spring 5. The forks 9 pass at each side of the spring 5, and prevent the cord getting out of its place. There is a guide-eye, 10, at the lower end of the lever *a*, through which the cords *d* pass. The curtain *i*, of paper or other material, is attached at its upper end to the window-casing, and provided with the roller *l* at the lower end, as usual. The two cords *d* pass through the eye 10, between the end of the lever *a* and the spring 5; thence down through the eye 4, and then diverge, passing beneath the roller *l*, up behind the curtain *i* to the casing, where such cords are fastened.

The operation is, that when the cord *d* is pulled away from the curtain, the lever *a* is moved sufficiently to liberate the cord, and allow the shade to be pulled up or lowered down, as desired, and then, when the cord hangs vertically, the lever *a* is swung sufficiently to clamp the cord and hold the shade at whatever point it may have been rolled to.

I claim as my invention—

1. The plate *a*, ears 2, eye 4, and spring clamping-tongue 5, made of one piece of sheet metal, in combination with the lever *a*, with the eye 10 for the cord, substantially as set forth.

2. The cord-holder for a window-shade, made of the swinging lever *a*, having an eye, 10, the spring-clamp 5, and a guide-eye, 4, substantially as set forth.

Signed by me this 20th day of May, 1876.

FREDERIC A. VREDENBURGH.

Witnesses:

JOHN G. MILLER,
COLEMAN R. BARRETT.