

S. VREELAND.
CURTAIN-FIXTURES.

No. 172,211.

Patented Jan. 11, 1876.

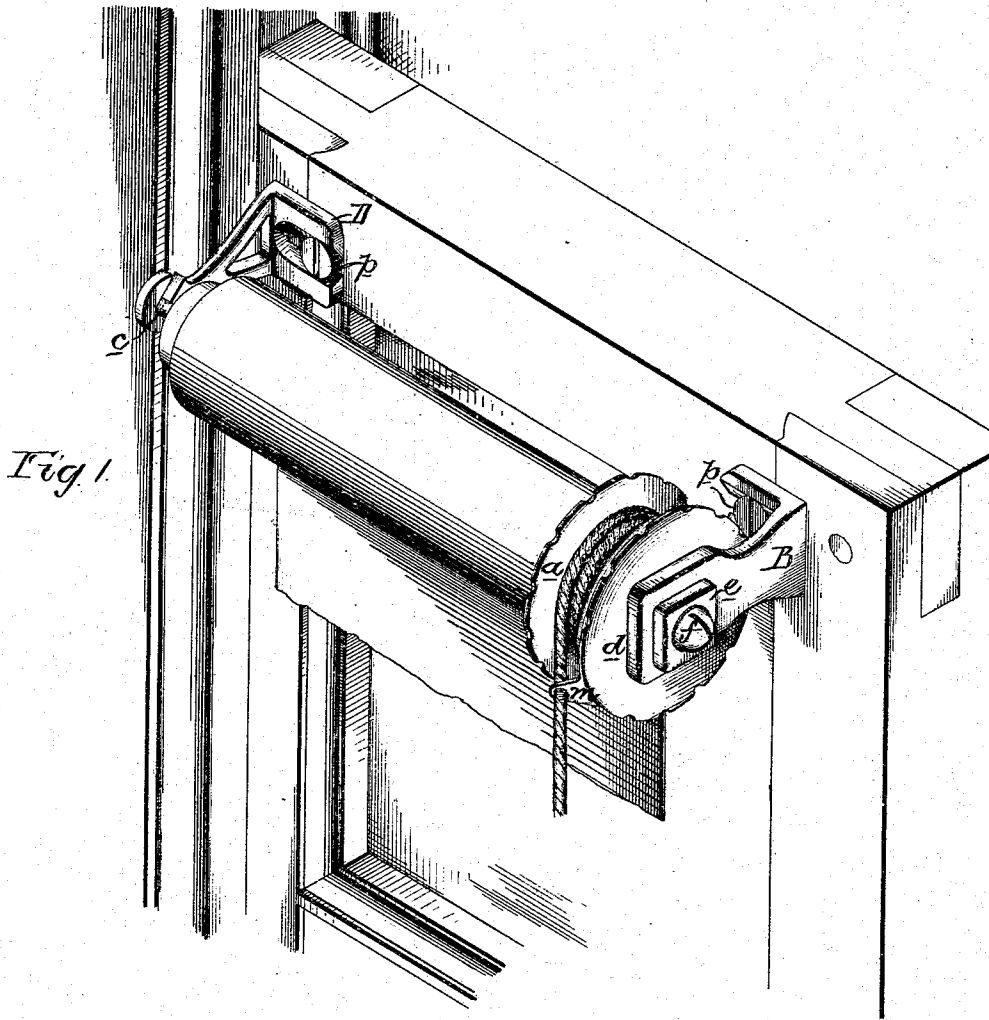
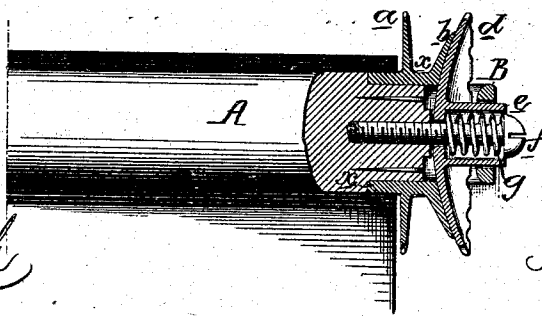


Fig 2



Witnesses,
Edwood T. G. P. S.
Harry Smith

Simon Vreeland
by his Attorneys
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UNITED STATES PATENT OFFICE.

SIMON VREELAND, OF SALAMANCA, NEW YORK.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **172,211**, dated January 11, 1876; application filed October 4, 1875.

To all whom it may concern:

Be it known that I, SIMON VREELAND, of Salamanca, Cattaraugus county, New York, have invented an Improved Shade-Fixture, of which the following is a specification:

The object of my invention is to construct a simple and efficient window-shade fixture of that class in which friction on the roller is relied upon for the purpose of holding the shade in any position to which it is adjusted; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a perspective view of my improved window-shade fixture, and Fig. 2 a vertical section of one end of the same.

A represents the shade-roller, to one end of which is secured, in any suitable manner, a metal ring, *x*, having two flanges, *a* and *b*, the former of which is straight, or nearly so, and the latter bent outward to the concavo-convex form shown. Against the concave face of the flange *b* bears the convex face of the disk *d*, which has on the opposite side a central tubular projection, *e*, of a square or other equivalent shape, adapted to an opening of corresponding form in a bracket, B, so that it is prevented from turning. The opposite end of the roller has a plain spindle, *c*, adapted to a slot in a bracket, D, which thus forms the bearing for one end of the roller, the bearing for the opposite end of the roller being the disk *d*, adapted to the flange *b* of the ring *x*. The pressure of this disk against the flange, and consequently the ease with which the shade can be operated, is regulated by means of a screw, *f*, and spring *g*, contained within the hollow projection *e* of the disk *d*, against which the spring bears at one end, and at the other against the head of the screw *f*, the end of which projects into the end of the wooden roller A, so that by adjusting this screw the pressure of the spring can be varied at pleasure, in order to regulate the degree of friction

between the flange *b* and disk *d* to suit shades of different weights. In the groove between the flanges *a* and *b* of the ring *x* is wound the operating-cord *i*, which I prefer to attach at one end to the ring, and allow the other end, after first passing it through a guiding-eye, *m*, on the disk *d*, to hang loosely, so that by pulling upon it the cord will be unwound and the shade raised, the latter being lowered by pulling directly upon its lower end. If desired, however, an endless cord, wound once or twice around the ring *x*, and unconfined at its lower end, may be used. The brackets B and D are attached by screws *p* to the top bar of the upper sash, the brackets being slotted so that they may be adjusted toward or from each other to suit rollers of different lengths.

Owing to the fact that the brackets are attached to the upper sash and move with the same, the obstruction of the passage of air by the shade when the window is down is effectually prevented.

If desired, the flanged ring *x* and disk *d* may be applied to both ends of the roller, instead of to one end only, as described.

I claim as my invention—

1. A curtain-fixture in which the roller A, provided with a flanged ring, *x*, is combined with a non-rotating spring-disk, *d*, all substantially as set forth.

2. The combination of the roller A and its flanged ring *x* with the disk *d*, its tubular projection *e*, screw *f*, and spring *g*, said projection *e* being so adapted to an opening in the bracket that the disk is prevented from turning, all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SIMON VREELAND.

Witnesses:

ELWOOD T. DEETZ,
HARRY SMITH.