

W. H. GILMAN & F. A. WISWELL.
Curtain-Fixture.

No. 224,287.

Patented Feb. 10, 1880.

Fig. 1.

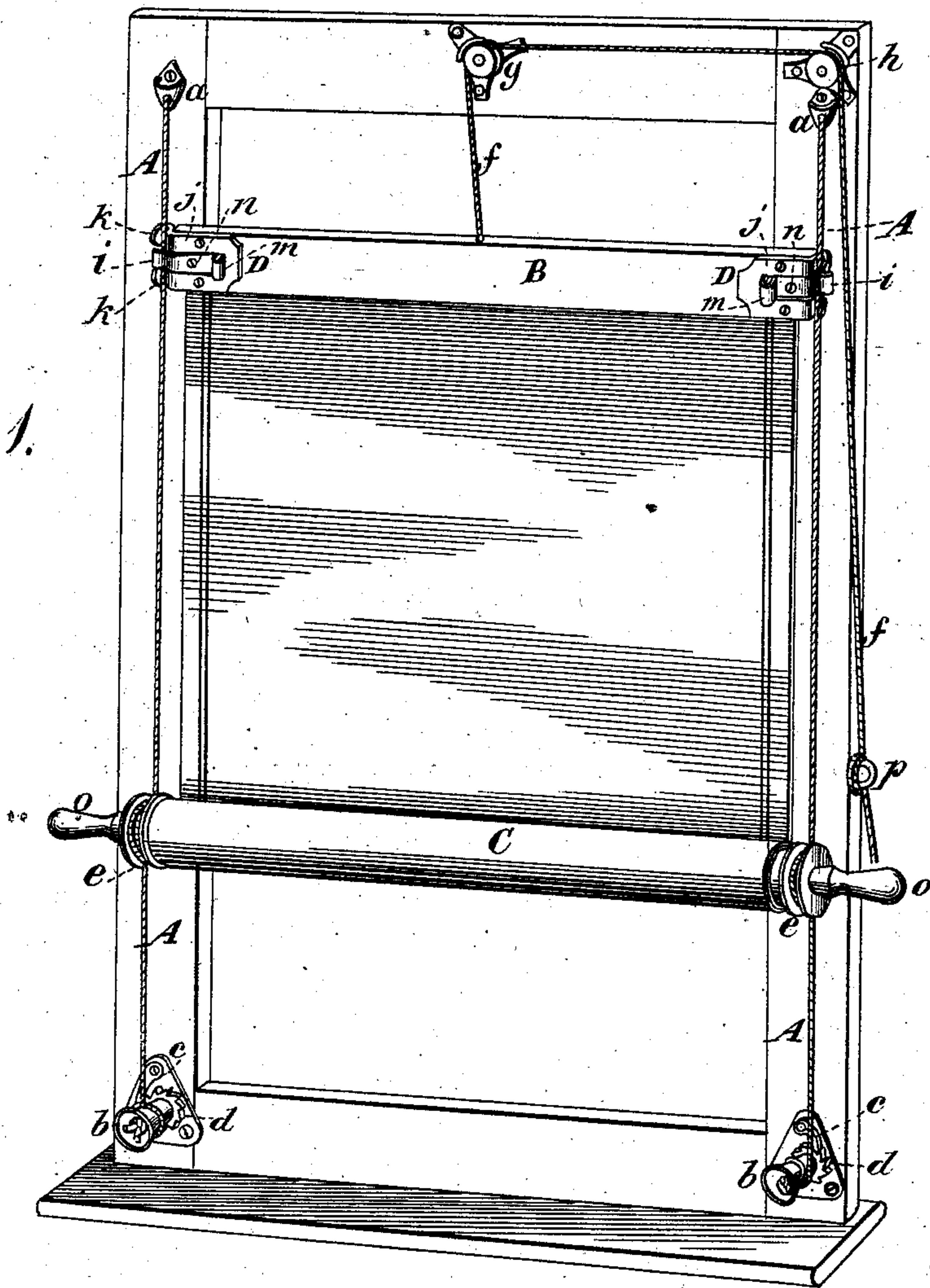
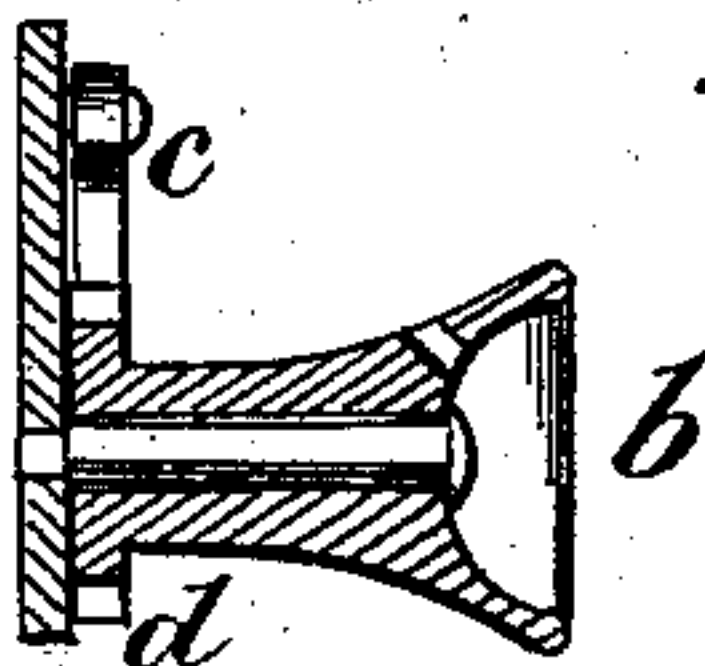
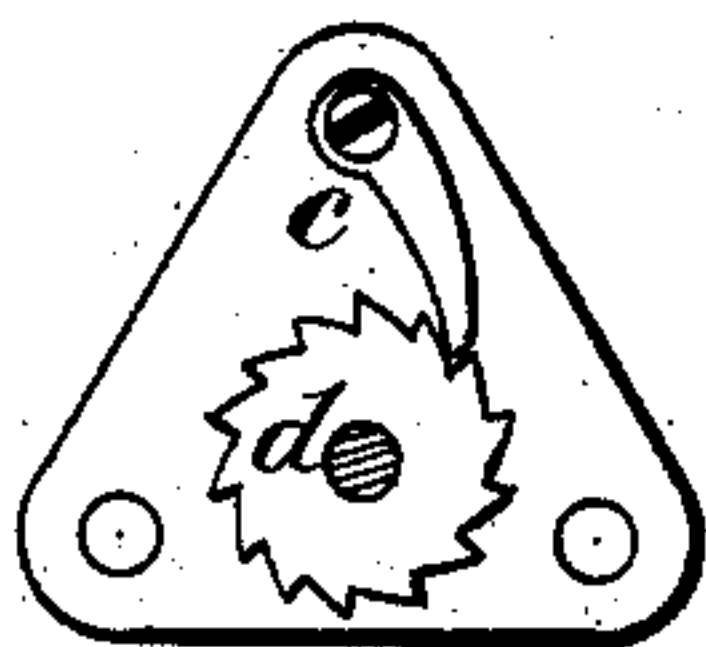
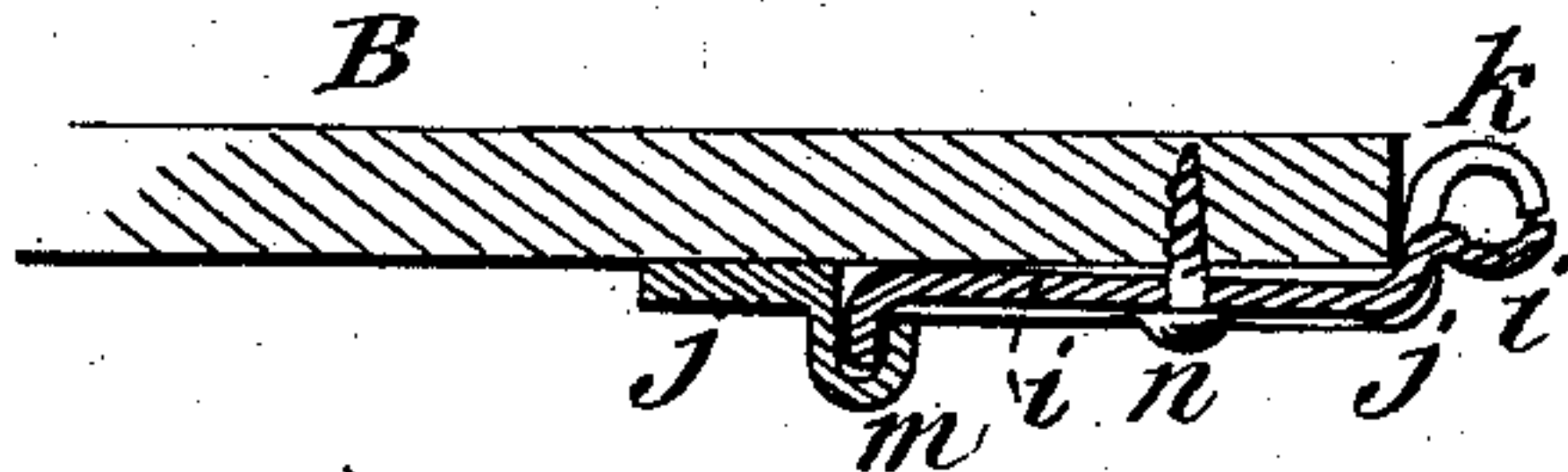


Fig. 2.



Witnesses.
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Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLARD H. GILMAN, OF BEEBE PLAIN, QUEBEC, CANADA, AND FREDERICK A. WISWELL, OF DERBY, VERMONT, ASSIGNORS TO SAID GILMAN AND CHARLES H. McCLINTOCK, OF STANSTEAD, CANADA.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 224,287, dated February 10, 1880.

Application filed October 9, 1879.

To all whom it may concern:

Be it known that we, WILLARD H. GILMAN, of Beebe Plain, in the county of Stanstead, Province of Quebec, Canada, and FREDERICK A. WISWELL, of Derby, in the county of Orleans and State of Vermont, have invented certain new and useful Improvements in Curtain-Fixtures; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements in curtain-fixtures, the object being to provide a curtain which can, by pulling on one cord, be simultaneously raised at the top and unrolled at the bottom.

The invention consists in the arrangement of the taut cords and tension devices for the same with the curtain-roller and curtain-stick, whereby they are held in the position desired; and it also consists in the clamping devices on the curtain-stick, by which the upper end of the curtain is prevented from slipping down, as hereinafter more fully described, and pointed out in the claims.

Figure 1 is a perspective view of a device embodying our invention. Fig. 2 is a plan and section of one of the tension devices. Fig. 3 is a section of the clamping device.

The cords A are fastened at the top by means of knot-cups *a*, which are secured to the upper part of the window-casing.

The lower ends of the cords A are wound about small drums *b*, and retained by a pawl, *c*, and ratchet-wheel *d*.

The curtain-stick B and roller C are adjustably attached to the cords A, as shown. The roller C carries at or near each end grooved pulleys *e*, formed of or secured to the said roller. These pulleys are inclosed by the cords A in the manner shown, the diameter of the pulleys at the bottom of the grooves being a little smaller than the diameter of the roller C, causing the

said roller to unroll the curtain when that portion of the curtain above the roller C is pulled in an upward direction, which may be done by means of the cord *f*, running over the grooved pulleys *g h* and fastened to staple *p*.

The curtain being rolled up from the bottom and pulled down at the top, as shown in Fig. 1, it may be made to close both top and bottom by pulling on the cord *f*.

The curtain-stick B carries at either end clamps D, composed of two parts, *i* and *j*, the body of the part *j* being firmly secured to the face of the said curtain-stick, while the hooked portions *k k* project over and cover the ends, as shown in Fig. 3. The inner ends of the tongues *i* hook under the cups *m*, the opposite ends of the tongues *i* being grooved to partially inclose and press upon the cords A, which is accomplished by means of the screw *n*.

Handles *o* at either end of the roller C serve to raise or lower the bottom of the curtain. For keeping the top of the curtain closed the hook or button *p* is provided, around which the cord *f* is wound.

We claim as our invention—

1. In a curtain-fixture, the roller C, having pulleys and loose handles, in combination with the curtain-stick provided with a clamping device at each end to clamp or hold said stick to the cords A, substantially as and for the purpose set forth.

2. The curtain-stick B, having at each end adjustable clamping devices D, consisting of the parts *i j k m n*, which inclose the cords A, substantially as shown.

3. The roller C, having the grooved pulleys *e* and handles *o*, the curtain-stick B, having the adjustable clamping devices D, and the taut cords A, arranged one at each side of the window-frame, in combination, substantially as set forth.

4. The combination, with the stick B, having the clamp devices D, the roller C, having the grooved pulleys *e*, and the taut cords, arranged one at each side of the window-frame, of the cord *f*, attached to the said stick, passing over pulleys *g h*, and of sufficient length

to be within convenient reach of the operator, whereby the stick can be raised and the roll lowered, and thus cover the entire window, substantially as set forth.

- 5 5. The clamping device D, made substantially as shown, in combination with a curtain-stick operated and used substantially as and for the purpose shown and set forth.

In testimony that we claim the foregoing we have hereunto set our hands.

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Witnesses:

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