C. H. MILLER.

CURTAIN FIXTURE.

No. 173,489. Patented Feb. 15, 1876.

Fig. 1.

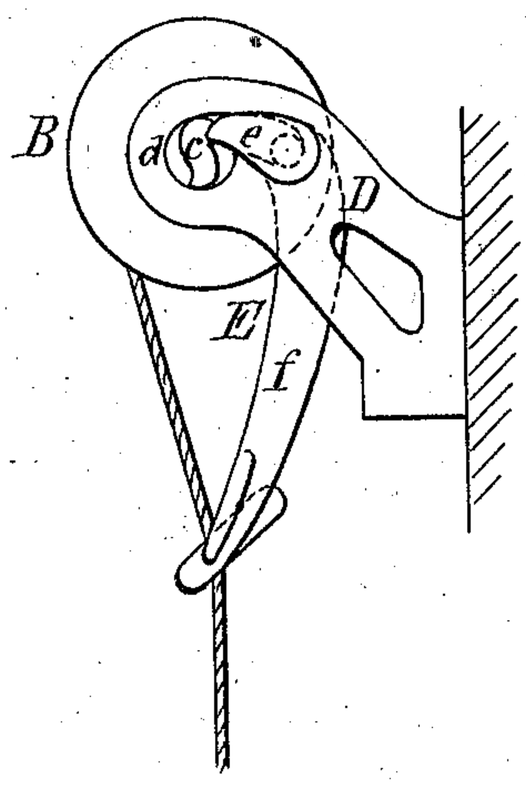


Fig. 2.

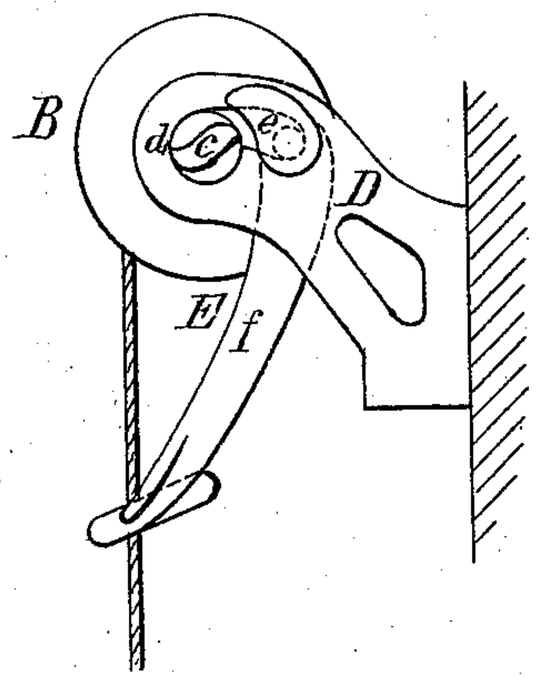


Fig. 3.

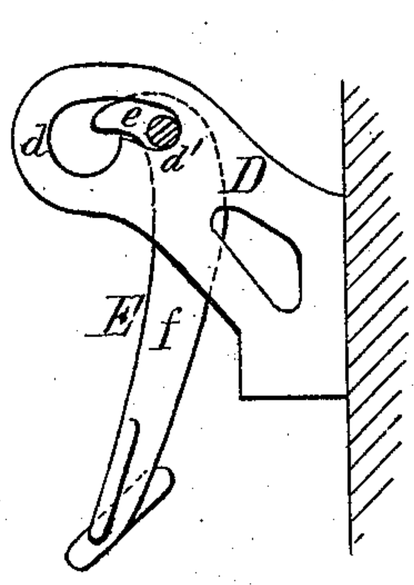


Fig. 4.

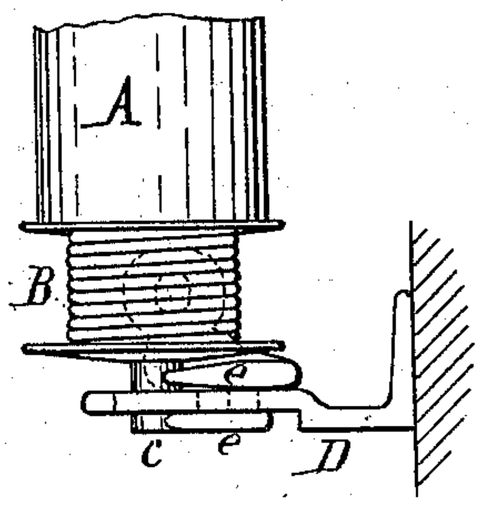


Fig. 5.

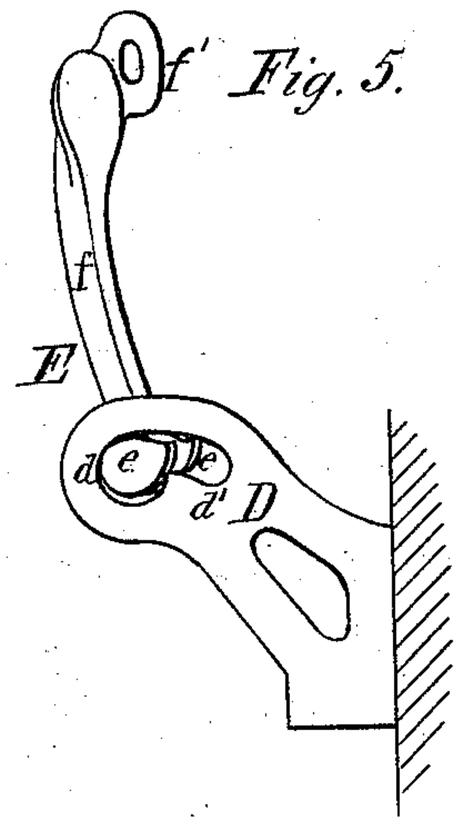
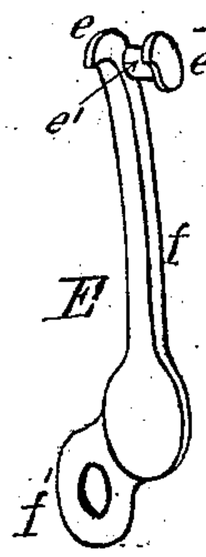


Fig. 6.



Witnesses

Edward Wilhelm

C. J. Buchheit

Charles H. Miller Inventor

by Jay Hyatt, Atty.

UNITED STATES PATENT OFFICE.

CHARLES H. MILLER, OF BUFFALO, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE BUFFALO CURTAIN-FIXTURE COMPANY, OF SAME PLACE.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **173,489**, dated February 15, 1876; application filed December 9, 1875.

To all whom it may concern:

Be it known that I, CHARLES H. MILLER, of the city of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Curtain-Fixtures, which improvements are fully set forth in the following specification, reference being had to the accompanying drawing.

My invention relates to that class of curtain-fixtures which are provided with a spool or reel, upon which the cord is wound as the curtain is unrolled, and which are, furthermore, provided with a detent-pawl and lever, engaging in a ratchet-wheel on said spool, so as to prevent the unrolling of the curtain, except when the detent-pawl is released by pulling on the cord, which passes through an eye or opening in the lower end of the lever.

My invention consists of the peculiar construction of the parts, as will be hereinafter fully described.

In the accompanying drawing, Figure 1 is an end elevation of my improved curtain-fixture with the detent-pawl engaged, so as to prevent the unrolling of the curtain. Fig. 2 is a similar view with the detent-pawl disengaged. Fig. 3 is an elevation of the bracket with the detent-pawl in section. Fig. 4 is a plan view of the curtain-fixture. Fig. 5 is an elevation of the bracket, with the detent-pawl in a raised position for inserting it in the eye of the bracket. Fig. 6 is a detached view of the detent-pawl.

Like letters of reference refer to like parts in each of the figures.

A represents the curtain-roller; B, the spool or reel upon which the cord is wound—both of common and well-known construction. *c* is the journal of the curtain-roller, provided with one or more notches in its circumference, the drawing representing two notches formed therein, leaving the solid portion in the form of the letter **S**. D is the bracket, secured to the window-casing, and provided with an elongated eye, the outer portion, *d*, of which receives the journal *s*. The latter projects through the eye of the bracket to the outside thereof, as shown in Fig. 4, and has the notch or notches formed on its outer projecting portion, and on its inner portion between the bracket and the spool B, while the portion of the journal engaging in the eye of the bracket is made round. E is the duplex stop-pawl and lever, consisting of two pawls, *e e*, connected by a cylindrical shank, *e'*, and a depending arm, *f*, formed with one of the pawls *e*, and provided at its lower end with an eye or loop, *f'*. The pawls *e e* are arranged on opposite sides of the bracket, so as to engage with both notched portions of the journal, while their connecting-shank *e'* is supported in the inner smaller portion *d'* of the eye of the bracket.

The pawls *e e* are of such size that the outer one can be passed through the larger outer portion *d* of the eye of the bracket when in a reversed position, as shown in Fig. 5, while, when the pawl is swung down to its normal position and pushed back into the smaller portion *d'* of the eye of the bracket, the two pawls, being larger than this portion of the bracket, will be securely held therein against lateral displacement. The journal *c* of the roller, being now inserted, prevents the pawls from moving forward, thus confining them to their proper place in the eye of the bracket.

The pendent arm *f* is so formed that the cord will have an inward direction from the spool B to the lower end of the arm, so that, upon pulling on the cord, the pawls *e e* will be swung on their shank *e'* upwardly, thereby disengaging them from the notches of the journal *c*. Upon releasing the cord the weight of the arm *f*, in returning to a vertical position, will bring the pawls *e e* again in engagement with the notches of the journal *c*, thereby arresting the descent of the curtain.

The parts of my improved curtain-fixture are readily cast complete, without requiring the drilling of holes for securing the parts together, and it is, in consequence, produced at comparatively small cost.

I claim as my invention—

The combination, with a curtain-roller having a journal, *c*, notched on each side of the bearing, of the bracket D, provided with elongated eye *d d'*, and duplex detent-pawl E, consisting of pawls *e e*, shank *e'*, and depending arm *f*, substantially as and for the purpose hereinbefore set forth.

CHARLES H. MILLER.

Witnesses:

EDWARD WILHELM,

CHARLES J. BUCHHEIT.