

J. S. HENRY.
Curtain-Fixture.

No. 213,417.

Patented Mar. 18, 1879.

Fig. 1

Fig. 2

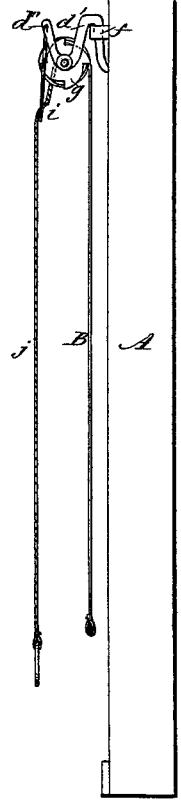
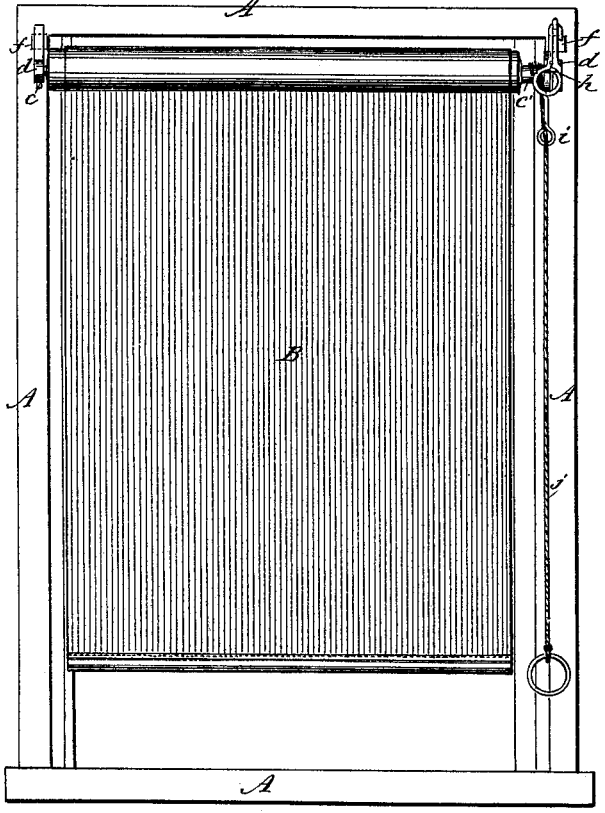
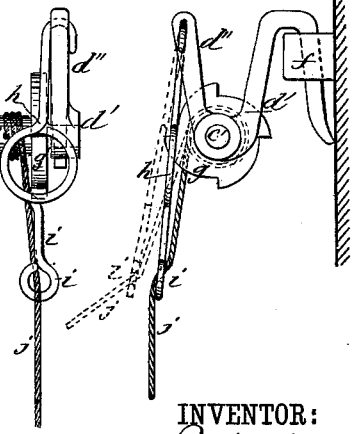
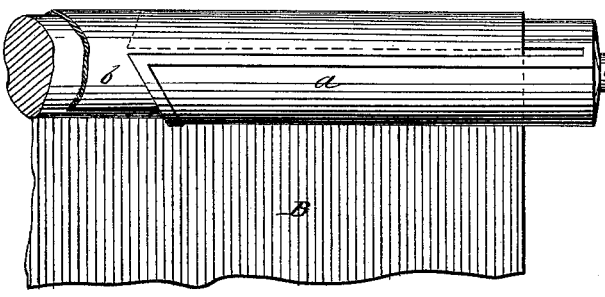


Fig. 3

Fig. 4



WITNESSES:

C. Neveux
C. Sedgwick

INVENTOR:

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BY *Mumford*

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UNITED STATES PATENT OFFICE.

JOHN S. HENRY, OF NORTH BELLE VERNON, PENNSYLVANIA.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 213,417, dated March 18, 1879; application filed October 21, 1878.

To all whom it may concern:

Be it known that I, JOHN S. HENRY, of North Belle Vernon, in the county of Fayette and State of Pennsylvania, have invented a new and Improved Curtain-Fixture, of which the following is a specification:

This invention relates to an improvement in the invention secured by Letters Patent No. 202,028, granted to me on the 2d day of April, A. D. 1878, for curtain-fixture.

The invention consists in the combination, with a curtain-roller having a ratchet-wheel and cord, of a bracket and a suspended ring, the latter pivoted at its upper end in front of the roller, and extended below the ratchet to form an eye or loop for the cord, as hereinafter described.

In the accompanying drawings, Figure 1 is a front view of a curtain hung in the window with my improved fixture applied. Fig. 2 is a side or edge view of the same. Fig. 3 is a detail of Fig. 1, and Fig. 4 is a detail of Fig. 2.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the frame of the window. B is the curtain, fixed at the upper end by slotted cylinders *a* to the roller *b*, and the said roller is supported on pivots *c c'* at each end in the brackets *d d'*, fixed one on either side at the upper part of the frame A, at the level of the suspension of the curtain. The hooked end of the brackets is entered into the eyes *f*. These parts of the invention have been fully described heretofore and claimed in the Letters Patent above referred to.

To the pivot *c'* is fixed a disk, *g*, having ratchet-teeth on its periphery. Bracket *d'* has an arm, *d''*, projecting upward above the ratchet-disk *g*, and at the end of it is a hole, from which is suspended a ring, *h*, (formed by bending the wire into a circle,) that hangs down over the ratchet-disk, so that the teeth engage it. The wire forming the hook is continued down and provided with a loop, *i*. A

cord, *j*, is passed through the loop *i* and fixed at one end to the pivot *c'*, the other end falling down convenient to the hand when the curtain is about to be raised or lowered.

The curtain has its lower edge weighted, so that when released from the catch it unwinds itself by the gravitation of the weighted end.

The operation of my invention is as follows: When the curtain is properly hung the weighted end is prevented from gravitating by the hook engaging the ratchet. When it is to be lowered, the cord *j* is drawn out to the position indicated by the dotted lines in Fig. 4. This draws the hook from the ratchet, and while holding the hook in this position it is relaxed sufficiently to allow the roller to turn by the gravitation of the weighted end, and as the roller turns the cord is wound on the pivot, as clearly shown in the drawings. When the curtain has reached the proper point, the cord is held taut and the hook allowed to drop on the ratchet and hold the roller. When the curtain is to be raised, the cord is drawn down, thus unwinding itself from the pivot, revolving the roller in the opposite direction, and winding up the curtain.

The device is cheap and simple in its construction and operates with perfect certainty at all times.

I am aware that the ratchet, spool, and means for raising and lowering the curtain are old; but

What I claim as new and of my invention is—

The combination, with the curtain-roller having ratchet-wheel *g* and the cord *j*, of the bracket *d' d''* and the suspended hook or ring *h*, pivoted at its upper end in front of the roller, and extended below the ratchet to form an eye or loop for the cord, substantially as shown and described.

JOHN SMART HENRY.

Witnesses:

C. M. COLL,
JOHN B. COLL.