

J. C. PERKINS.
Curtain-Fixtures.

No. 152,915.

Patented July 14, 1874.

fig. 1.

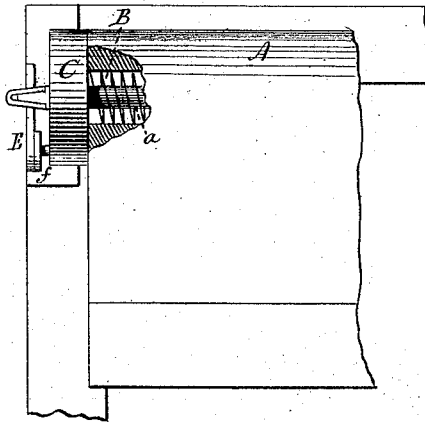
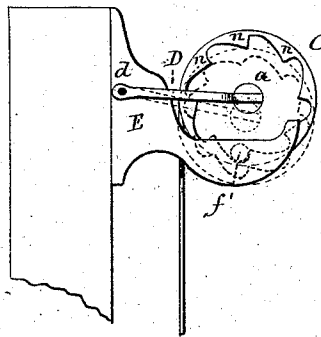


fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

JUDSON C. PERKINS, OF DUXBURY, MASSACHUSETTS, ASSIGNOR OF ONE-FOURTH HIS RIGHT TO F. E. NEARING, OF LANESVILLE, CONN.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **152,915**, dated July 14, 1874; application filed March 26, 1874.

To all whom it may concern:

Be it known that I, JUDSON C. PERKINS, of Duxbury, in the county of Plymouth and State of Massachusetts, have invented a new Improvement in Curtain-Fixtures; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a front view in partial section, and in Fig. 2 an end view.

This invention relates to an improvement in that class of curtain-fixtures in which the roll is turned to wind up the curtain by means of a spring coiled in the roll, the drawing down of the curtain serving to wind or contract the spring; and the invention consists in attaching the outer end of the spindle, to which one end of the spring is fixed, and upon which the roll turns, to an arm, the said arm extending from that point, preferably, back, and pivoted or hung to the bracket, so as to allow that end of the roll to rise or be drawn down, combined with a toothed head or projection on the said roll, and a stationary projection on the bracket to engage the teeth or projection of the said head, to prevent the action of the spring upon the roll, and yet allow the roll to be drawn down, so as to free the teeth of the head from said projection, and the spring to act to turn the roll, so as to wind up the curtain.

A is the roll upon which the curtain is wound, and is made tubular, so as to receive a spring, B, one end of the spring fixed to the spindle *a*, the other end to the head C, or directly to the roll, in the usual manner. The end of the roll opposite the head C is supported in the usual manner, so as to allow the roll to turn freely at that end. The spindle *a* extends out through the head C, and is securely attached to an arm, D, the said arm pivoted or hung to the bracket E at *d*, as seen in Fig.

2. This prevents the spindle from turning, but allows the head and roll to turn on the spindle, so that when the curtain is drawn down it will turn the roll and one end of the spring, causing the contraction of the spring, so that the reaction of the spring will roll up the curtain in the usual manner. Upon the head C several projections or teeth, *n*, are formed, similar to the teeth of the ratchet-wheel, as seen in Fig. 2, and on the bracket a stud or projection, *f*, so as to lie in the path of the said teeth, as seen in Fig. 2, and so that when engaged as there seen the roll is prevented from being turned by the reaction of the spring, the power of the said spring being sufficient to suspend that end of the roll by the arm D above the bracket, as seen in Fig. 2.

In drawing down the curtain, the roll will be depressed at the spring end, as denoted in broken lines, Fig. 2, so that the teeth of the head will pass the projection *f* until the power which draws down the curtain is relaxed; then the roll will rise and the head engage the projection *f*, and be retained in that position.

If desired to raise the curtain, draw down with sufficient power to free the head; then relax but slightly, and the spring will react and return the roll to wind up the curtain, until the curtain is released entirely from the downward pull; then the roll will rise and engage, as before.

When free the force of the spring, through the arm D, is always exerted to hold the roll up against the projection *f*.

I claim as my invention—

The combination, with roller A, provided with the toothed head C and the spindle *a*, of the spring B, arm D, and bracket E, provided with the projection *f*, as and for the purpose specified.

JUDSON C. PERKINS.

Witnesses:

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