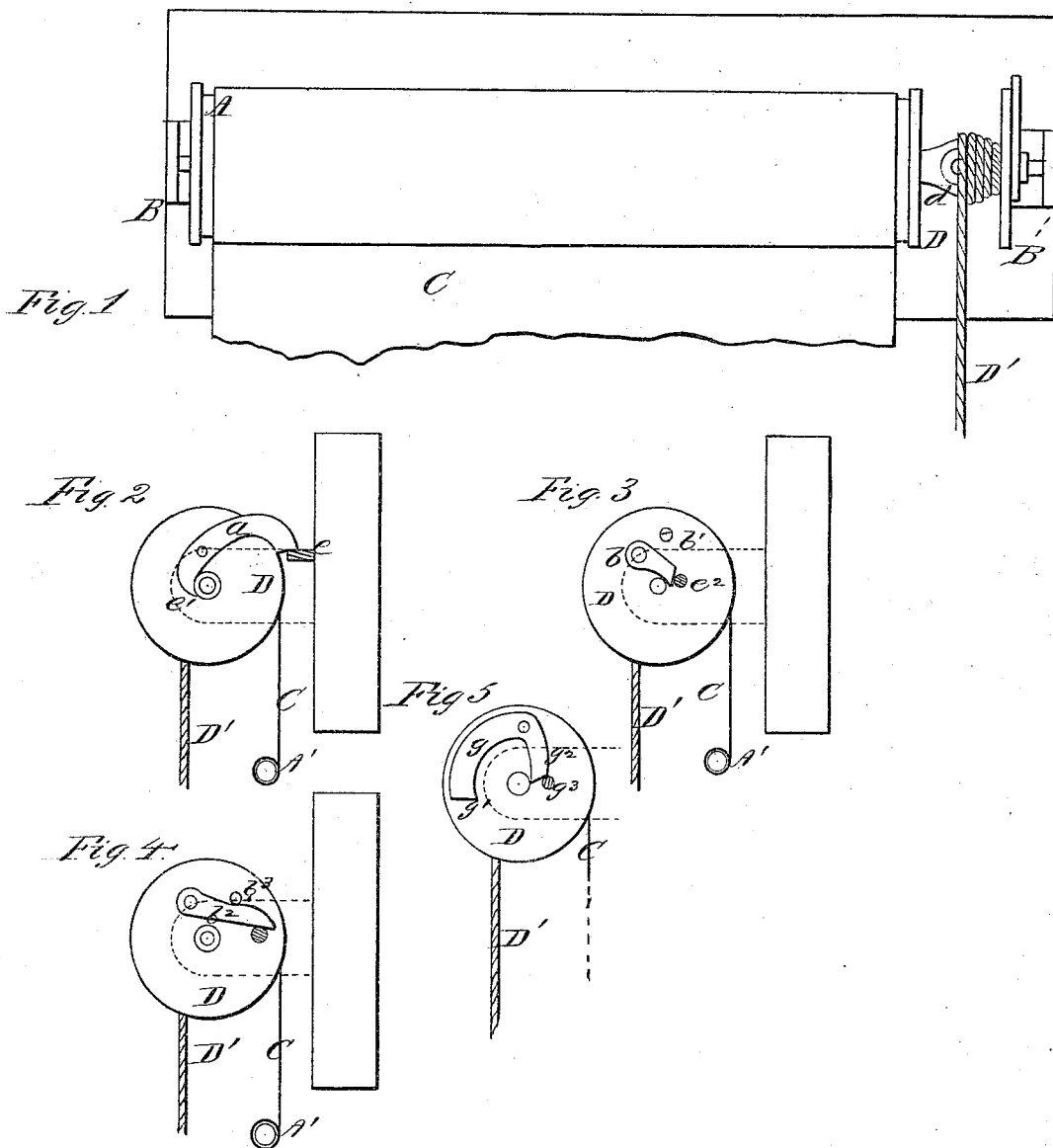


E. B. LAKE.
CURTAIN-FIXTURES.

No. 170,277.

Patented Nov. 23, 1875.



Witnesses
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UNITED STATES PATENT OFFICE.

EZRA B. LAKE, OF TOM'S RIVER, NEW JERSEY.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **170,277**, dated November 23, 1875; application filed December 14, 1874.

To all whom it may concern:

Be it known that I, EZRA B. LAKE, of Tom's River, in the county of Ocean and State of New Jersey, have invented certain new and useful Improvements in Curtain-Fixtures; and I 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a front view of my invention. Figs. 2, 3, 4, and 5 are end views of modifications.

My invention has for its object to provide, at a very moderate expense, a simple, durable, and effective means of operating and controlling window-curtains; and it consists in the application to, and combination with, the roller of a self-lowering weighted curtain of a single-cord pulley, a suitable single cord, and a pawl pivoted to the head of the pulley, and engaging with a stop projecting from one of the roller-brackets.

Referring to the accompanying drawings illustrating my invention, A designates an ordinary cylindrical curtain-roller, supported by brackets B B', which may be attached to the window-frame or to the upper sash. C is the curtain, having its lower end weighted by means of a sufficiently heavy wooden or iron bar, A', which will cause the curtain to unroll and descend when the roller is free to turn. D designates a single-cord pulley secured to one end of the curtain-roller, and D' a single cord secured at one end to the hub of said pulley, which should have an eye, d, for the reception of said cord, so that, according as the roller turns to unroll the curtain, said cord will be wound upon the hub. The curtain is raised by merely drawing upon the cord, which, to unwind, turns the pulley and curtain. The retention of the curtain at any desired height is effected by means of a pawl pivoted to the head of the pulley, and engaging with a stop projecting from the bracket B', or otherwise appropriately arranged. The pawl may be adapted to engage with the stop, under cen-

trifugal impulse, or otherwise, as may be desired. I therefore do not limit my invention to the employment of any specific form of pawl, or any precise arrangement thereof.

Figs. 2, 3, 4, and 5 of the drawings illustrate various modifications of said pawl and stop, all of which are well adapted for use in connection with the weighted curtain and single-cord pulley. Fig. 2 shows a pawl, a, which is thrown outward, when the curtain descends rapidly, and catches upon a stop, e, formed by a lug on the bracket. A hook at e' prevents the pawl from being thrown too far outward, said hook being brought against the journal of the pulley. The pawl b, in Fig. 3, engages with a stop, e², only when the curtain is lowered slowly. A pin, b', projecting from the pulley-head prevents the pawl from being swung outward by centrifugal force. Fig. 4 shows a pawl, b², operating centrifugally, but limited in movement by a pin, b³. Fig. 5 shows a pawl, g, having a weighted tail-piece, g¹, which, being swung outward centrifugally, causes the head g² to engage with a stop, g³, near the journal of the pulley.

I am well aware that the several essential features of my invention have heretofore been used. I therefore do not claim, broadly, a weighted curtain, nor a single-cord pulley; nor the combination, broadly, of a pawl to arrest the motion of a curtain-roller with the pulley or weighted roller separately. Furthermore, I specially disclaim the devices shown in Patent No. 126,666; but

What I claim as my invention, and desire to secure by Letters Patent, is—

The weighted curtain, single-cord pulley, single cord, pawl, and stop combined, said pawl being pivoted to the cord-pulley, substantially as described, and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of November, 1874.

EZRA B. LAKE.

Witnesses:

SILVESTER McKELVY,
JAMES W. HAGAMAN.