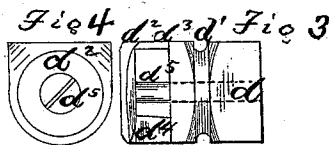
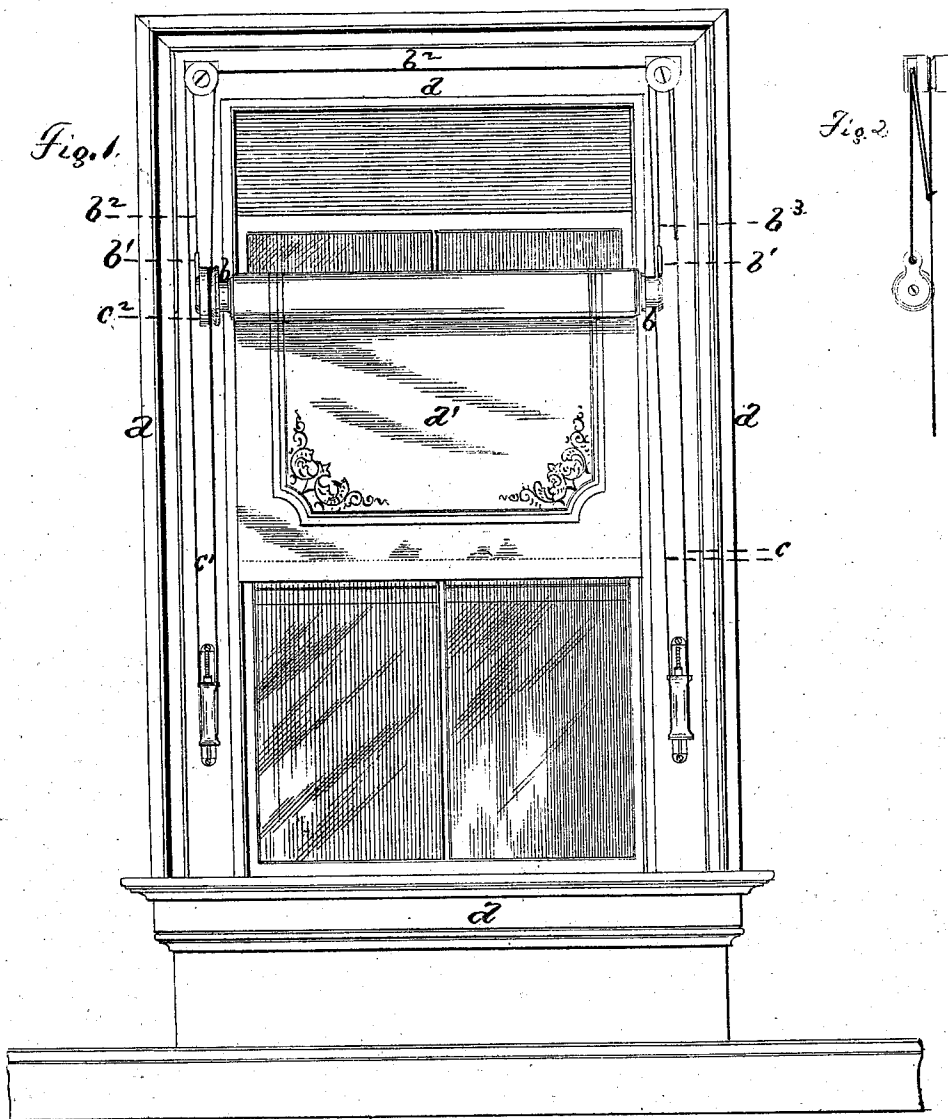


F. ROOT.
Curtain-Fixtures.

No. 149,608.

Patented April 14, 1874.



WITNESSES:

John Pollard.
Harrison Freeman.

INVENTOR.

Franklin Root.
R. W. E. Simms.

UNITED STATES PATENT OFFICE.

FRANKLIN ROOT, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **149,608**, dated April 14, 1874; application filed August 6, 1873.

To all whom it may concern:

Be it known that I, FRANKLIN ROOT, of the city of Hartford, county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Curtain-Fixtures, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a front view of a window and window-frame, to which is hung a curtain with my improved fixture. Fig. 2 is a detached outline view from the right-hand side of the window near the top. Fig. 3 is a detached enlarged side view of the fixed pulley-block, over which the cords run at the top of the window. Fig. 4 is a detached enlarged front view of the part shown in Fig. 3.

This invention consists in the construction of the fixed pulley-blocks.

The letters *a* indicate the sides and ends of the window-frame, and the letter *a'* the curtain attached to and rolling on the curtain-roll *b*, the ends of which are pivoted to the bearing-plates *b'* *b'*, which are attached, respectively, to the ends of the cords *b*² *b*³. The former cord passes up over the left-hand fixed pulley-block, across the top of the window, and down over the right-hand pulley-block, and is fastened to the cord *c*. The cord *b*³ passes over the right-hand pulley-block, and is fastened to the cord *c* at the same place with the cord *b*². The cord *c* is an endless cord running over the right-hand pulley-block, and the half-pulley in the right-hand cord-strainer.

From this description it is evident that by manipulating the cord *c* the curtain-roll and the curtain with it can be raised or lowered, as desired.

On the left side of the curtain is the endless cord *c'*, running over the left pulley-block, and over the pulley in the left-hand cord-strainer, being wound once around the pulley *c'*, which is fixed to the end of the curtain-roll, from which description it is obvious that by manipulating the cord *c'* the curtain-roll can be revolved so as to raise or lower the bottom of the curtain relatively to the curtain-roll, with-

out moving the curtain-roll up or down; and that when the curtain-roll is moved up or down the status of the bottom end of the curtain will be left unchanged if the cord *c'* is left untouched.

As to the construction of the fixed pulley-blocks, the letter *d* indicates the stump or base part of such a pulley-block, of wood, glass, or other suitable material, and rounded or square, though preferably square. It has an annular groove, *d*¹, forming a fixed pulley for the cord *c* or *c'*. On the front of the stump *d* is a disk, *d*², preferably metallic, having two short legs, *d*³ *d*⁴, resting on the front end of the stump *d*. This two-legged disk is held to the stump *d* by a screw, *d*⁵, which runs through the stump and into the window-casing, thereby holding the whole to the casing. The cords *b*² *b*³ run over the body of the screw, and between the stump and disk. It is plain that the form and configuration of the stump and the disk with its legs can be varied greatly without departing from the principle or functions thereof.

I am aware that two rotating pulleys are used for the same purpose as mine in the patent to L. C. Rindle, No. 114,852, dated May 16, 1871, and in the patent to J. J. Crooke, No. 13,482, dated August 21, 1855, these being two pulleys, of common construction, placed side by side; and this I do not claim as my invention. In the first place, both my pulleys are fixed, and do not rotate; in the next place, one of the pulleys is formed by the screw which secures the whole to the casing; and in the third place, the exterior disk *d*², with its legs, secures the outer cords from escaping from the screw, none of these things being found in the patents referred to.

I claim as my invention—

The fixed pulley-block composed of the stump *d*, disk *d*², with its legs, and the screw *d*⁵, the whole combined, arranged, and designed for use substantially as described.

FRANKLIN ROOT.

Witnesses:

FRED. COLLIN,
E. S. PALMER.