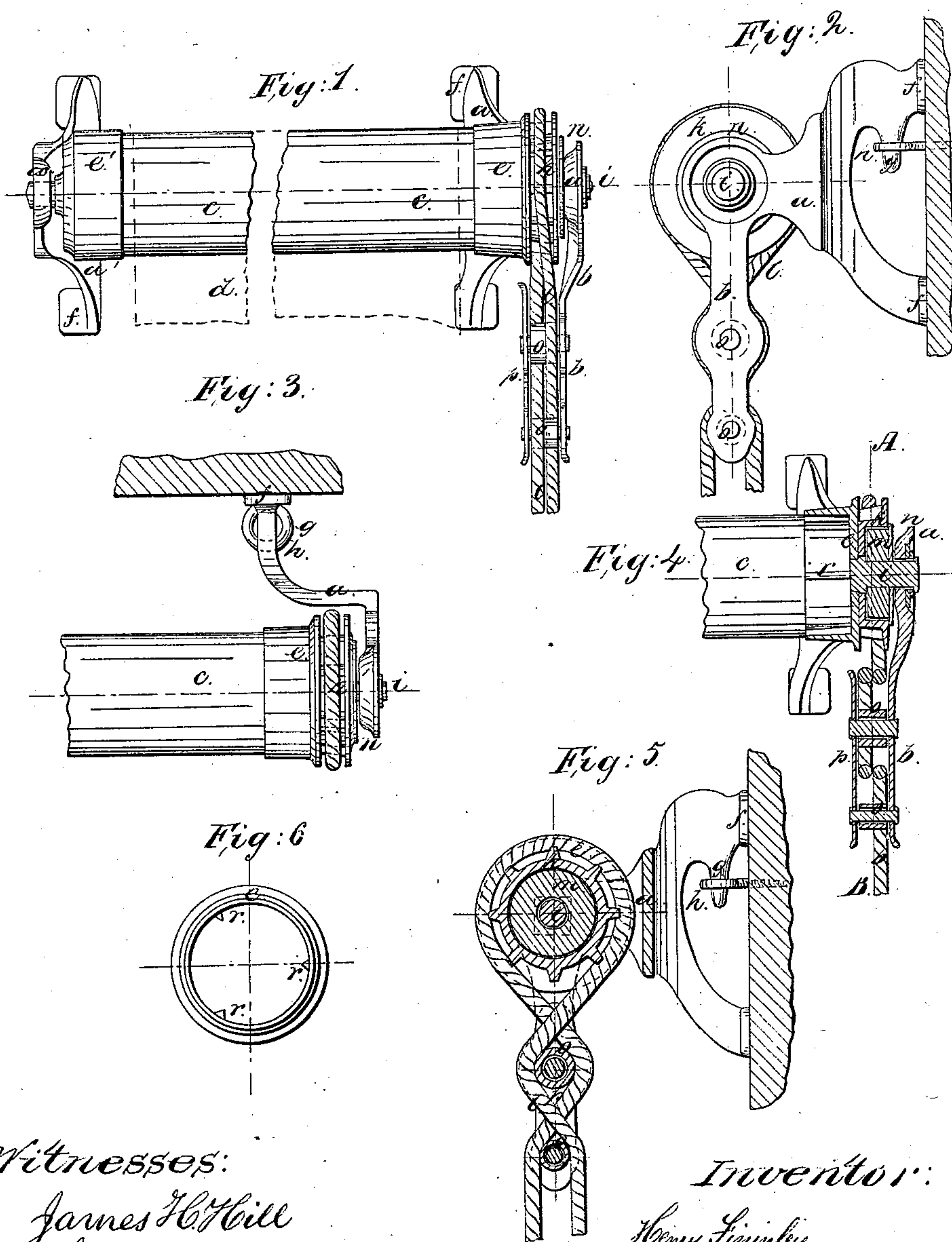


H. Fininley,

Curtain Fixture,

No. 85,295,

Patented Dec. 29, 1868.



Witnesses:

James H. Hill
J. Ward.

Inventor:

Henry Fininley,
by A. B. Howland Attorney.

United States Patent Office.

HENRY FININLEY, OF NEW YORK, N. Y.

Letters Patent No. 85,295, dated December 29, 1868.

IMPROVED CURTAIN-FIXTURE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY FININLEY, of the city of New York, county and State of New York, have invented certain new and useful Improvements in Curtain-Fixtures; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a front view of the fixture.

Figure 2, a side view of the same, looking left.

Figure 3, a top view, and

Figure 4, a vertical longitudinal section of the end carrying the cord.

Figure 5, a vertical section through pulley, &c., on line A B, and

Figure 6, a side view of the ferrule into which the roller is inserted.

My invention consists substantially of an improved form of bracket and arrangement for attaching the same to the window-casing, and for raising and lowering the curtain and retaining it in any desired position without the use of weights, springs, or any of the appliances usually attached to the casing for that purpose.

In the drawings—

a a' are the supporting-brackets made right and left, the right-end bracket *a* having a pendent stem, *b*, cast upon it, for the purposes hereinafter mentioned.

c is the roller, of wood, to which the curtain *d* is attached.

e e' are ferrules to receive the ends of the roller.

I construct the brackets *a a'* of the peculiar form shown in figs. 2 and 3. They are each curved outwardly, as shown in fig. 3, for the purpose of affording greater breadth of curtain, and to allow of their attachment either to the inner edge or to the face of the window-casing, as may be found most convenient or necessary. Each is provided with two flat bearings or feet, *f f*, and an inverted conical spur, *g*.

In applying the fixture to the window, I screw a small wire hook or eye, *h*, into the casing, place the bracket against the wood-work, and press the spur *g* firmly into the eye *h*, either upon the face or inner edge of the casing, as the case may be.

This arrangement allows of the ready attachment and detachment of the bracket, or of its entire removal, without injuring or defacing the wood-work of the window-frame.

I construct the right end of the fixture as shown in sectional detail in figs. 4 and 5.

e is the ferrule, embracing the end of the roller, and having a shaft, *i*, cast upon it, the inner portion of the shaft, near the ferrule, being square, and the outer portion round.

k is a pulley, (over which the cord *l* passes,) having cogs or projections upon its periphery, to prevent the slipping of the cord.

This pulley has a recess within it, as shown, and is slipped over and upon the square portion of the shaft *i*, and rigidly secured to the disk of the ferrule *e* by a rivet or otherwise, or it may be cast upon the ferrule, if advisable.

The ferrule and pulley have flanges cast upon them, as shown, to retain the cord in place.

Within the recess in the pulley *k*, and around the shaft *i*, I place and compress an elastic ring, *m*, of rubber, or other suitable material, and cover the same with a metal washer, *n*.

When thus arranged, the end of the shaft *i* is passed through a hole drilled in the bracket *a* to receive it, and riveted up to the pressure required to hold the curtain in any desired position.

The right-end bracket *a* has a pendent stem, *b*, cast solidly upon it, into which two or more friction-rolls, *o o*, are secured, their opposite ends being covered and held in place by a guard, *p*.

The cord *l* is carried over the pulley *k*, between and around the friction-rolls *o o*, and between the stem *b* and guard *p*, all as shown in figs. 4 and 5.

On the inner circumference of the ferrule *e*, I provide three or more triangular ribs or prongs, *r r*, which prevent the roller from turning in the ferrule when pressed into it, and dispense with the necessity of screws or nails, the object being, not to hold the roller immovably, but simply to allow it to rotate only with the ferrule, and of its being removed with the curtain without disturbing the bracket and cord.

The left-end ferrule *e'* is provided with a pin, and attached to the roller in the same or in any usual way.

A prominent feature in my invention, as above described, is the arrangement of the pulley, elastic rubber ring, washer, and shaft, *i*, riveted to the bracket, as shown, by which the weight of the curtain is sustained by lateral pressure exerted by the elastic ring *m* upon the recessed surface of the pulley and upon the washer *n*, and by which both sides of the bracket are tightly embraced between said washer and the outer riveted end of the shaft *i*, and without exerting any pressure upon the end of the roller or against the opposite bracket.

The arrangement by which the cord is passed over the roughened pulley, and between and around the friction-rolls, further operates to effect the same end, so that by increasing the number of friction-rolls and the thickness of the rubber ring *m*, however heavy the curtain may be, if within reasonable limits, the device will sustain it at any point and without lateral pressure upon the roller or left-end-bracket. At the same time the whole apparatus is compact and ornamental, occupying no more room than fixtures of the ordinary styles.

The cord may be allowed to hang loosely, be provided with ornamental or weighted tassels, or passed around a knob or button at the bottom, to suit the taste, and

the curtain and roller may be readily removed, without disturbing the same.

In applying these fixtures to windows having inside shutters, the curved form of bracket shown may be dispensed with, and the remaining parts of my fixture applied to other forms of brackets.

I do not claim broadly the use of rubber or elastic materials for retaining the curtain in place by lateral pressure; but

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

1. The curved brackets *a* and *a'*, with the spur *g* and feet *f f*, attached to the casing by means of the eye *h*, substantially as and for the purposes set forth.

2. The pendent stem *b*, (cast upon the bracket,) the friction-rolls *o o*, guard *p*, cord *l*, and pulley *k*, all arranged to co-operate substantially in the manner and for the purposes set forth.

3. The general arrangement and combination of the pendent stem *b*, friction-rolls *o o*, recessed pulley *k*, elastic ring *m*, washer *n*, and shaft *i*, the latter having its outer end riveted or upset, as shown, all arranged to co-operate substantially as and for the purposes set forth.

HENRY FININLEY.

Witnesses:

HORACE A. THOMPSON,
HARRIET S. SEYMOUR.