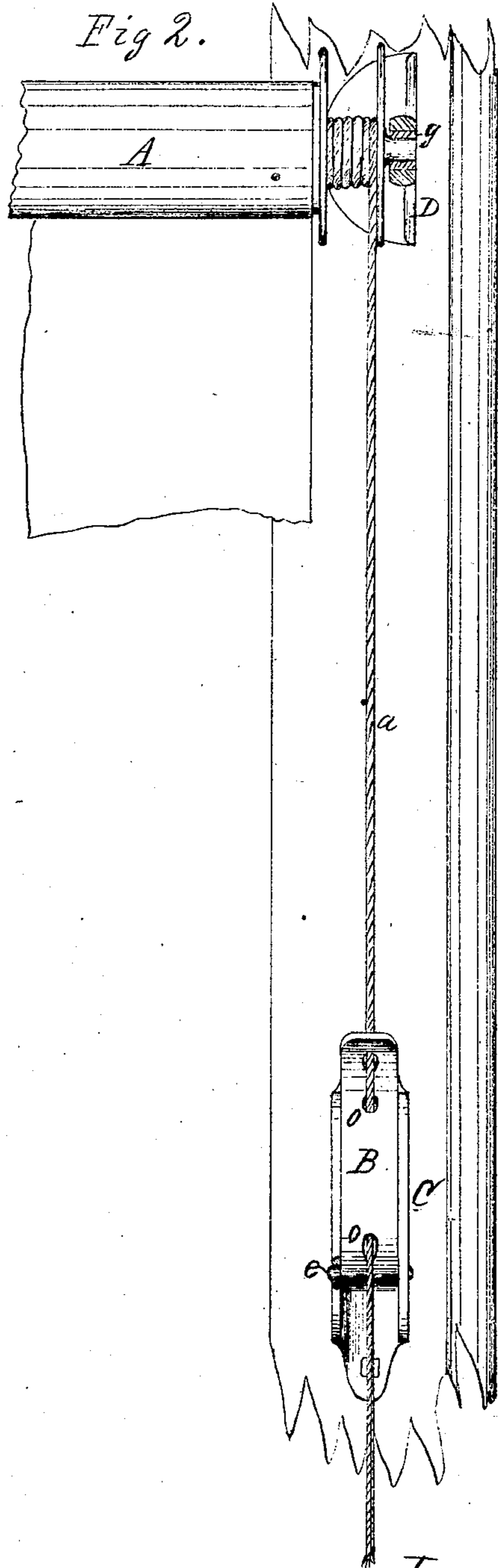
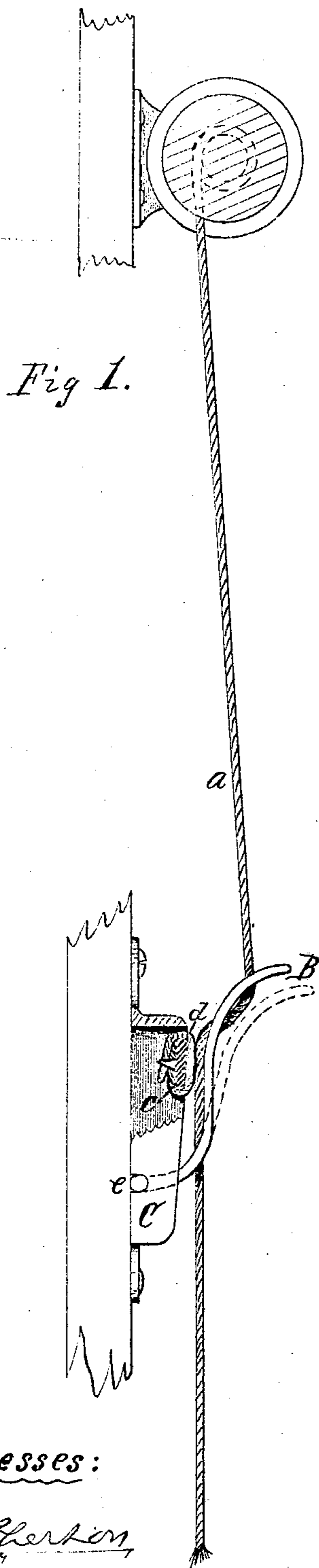


N. Campbell
No. 119,740.

Curtain Fixture.
Patented Oct. 10, 1871.



Witnesses:

Wm. W. Perkins,
of Rochester, N.Y.
W. C. Rowley

Inventor:

N. Campbell
By W. S. Langley & Co
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UNITED STATES PATENT OFFICE.

NATHAN CAMPBELL, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 119,740, dated October 10, 1871; antedated July 26, 1871.

To all whom it may concern:

Be it known that I, NATHAN CAMPBELL, of Rochester, in the county of Monroe and State of New York, have invented certain Improvements in Curtain-Fixtures, of which the following is a specification:

My invention relates to that class of fixtures in which the elevating-cord runs through and is held by a clamping-bracket secured to the window-casing; and consists more particularly in the arrangement by which the weight of the curtain acts to clamp the cord.

In the drawing, Figure 1 is a sectional side elevation. Fig. 2 is a front elevation. The bent lever B is pivoted to the bracket C, and is provided with openings *o*, Fig. 2, through which the elevating-cord *a* passes, as shown. The bracket C is made open centrally to receive the extremity of the lever, and a bar, *c*, Fig. 1, extends across it, between which and the lever B the cord *a* is clamped, as indicated in Fig. 1. The cord leaves the upper end of the lever some distance outward from the clamping-point, by which means the weight of the curtain is exerted through the medium of the cord to draw the lever against the bar *c* and pinch such cord, and the position of the fulcrum *e* of the lever being upon the opposite side of the clamping-point facilitates such action.

The curtain is elevated by pulling the lower extremity of the cord slightly outward, thus lifting the clamping-lever from its bearing upon the bar *c* sufficiently to free the cord and allow it to be drawn through. By depressing the upper end of the lever with the thumb or finger the cord is released and slips through the openings therein, allowing the curtain to descend. In practice, I find it desirable to attach a strip, *d*, of rubber or similar yielding material, either upon the bar *c* or upon the back of the lever B, which thus increases the friction upon the cord and renders the device entirely safe for curtains of any weight. The gudgeons *e* of the lever rest in sockets formed upon the inner edge of the bracket next to the casing, and it is plain that when the bracket is

in position the lever cannot become displaced. The extremity of the lever is introduced diagonally into the open center of the bracket and the gudgeons passed through and dropped into the sockets, both gudgeons and sockets being formed upon the respective parts in the process of molding from the patterns. By this means I dispense with rivets, pins, or fitting up of any kind. To obviate the noise arising from the operation of the curtain-roller A the bearing in the bracket D is made somewhat larger than the gudgeon of the roller, and a ring, *g*, Fig. 2, of rubber, felt, or similar yielding material, is placed in it, either fast upon the bearing or the gudgeon. The roller is thus cushioned and made noiseless in its action, and a great objection to this class of fixtures entirely overcome.

It is evident that this fixture can be very cheaply constructed, while its operation is equal to the more costly contrivances heretofore in the market, and is, moreover, perfectly noiseless.

By slightly changing the proportions of the parts a tape may be used as well as a cord, which on some accounts might be preferable.

What I claim as my invention is—

1. The clamping-lever B, in combination with a suitable frictional rest, when the former is arranged to be operated by the weight of the curtain through the medium of the elevating-cord, for the purposes set forth.

2. In combination with a locking and releasing-clamp or lever, B, the yielding frictional bearing *d*, for the purposes set forth.

3. In combination with the pivot of a curtain-roller the cushioning bearing *g*, for the purposes set forth.

4. A clamping side bracket, composed of the lever B provided with side pivots *e*, and the plate or socket C having an open center, into which the extremity of the lever is introduced, substantially as and for the purposes set forth.

N. CAMPBELL.

Witnesses:

F. H. CLEMENT,
WM. J. McPHERSON.