

L. B. Gusman,

Curtain-Cord Tightener,

Nº 16,673,

Patented Feb. 17, 1857.

Fig. 1.

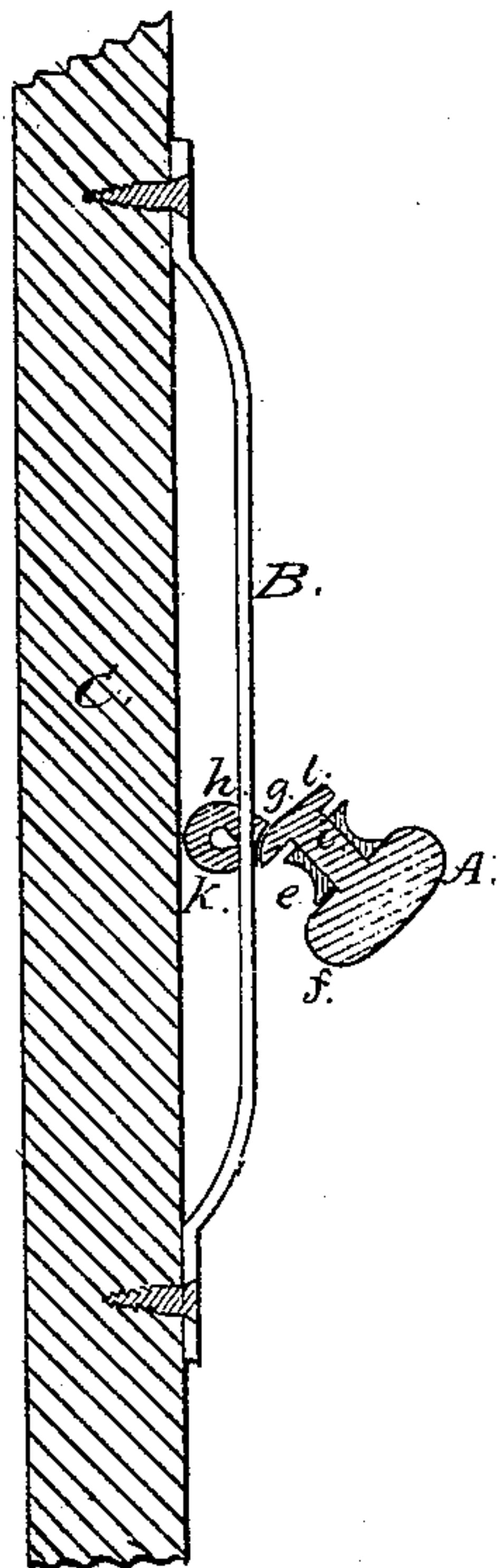


Fig. 3.

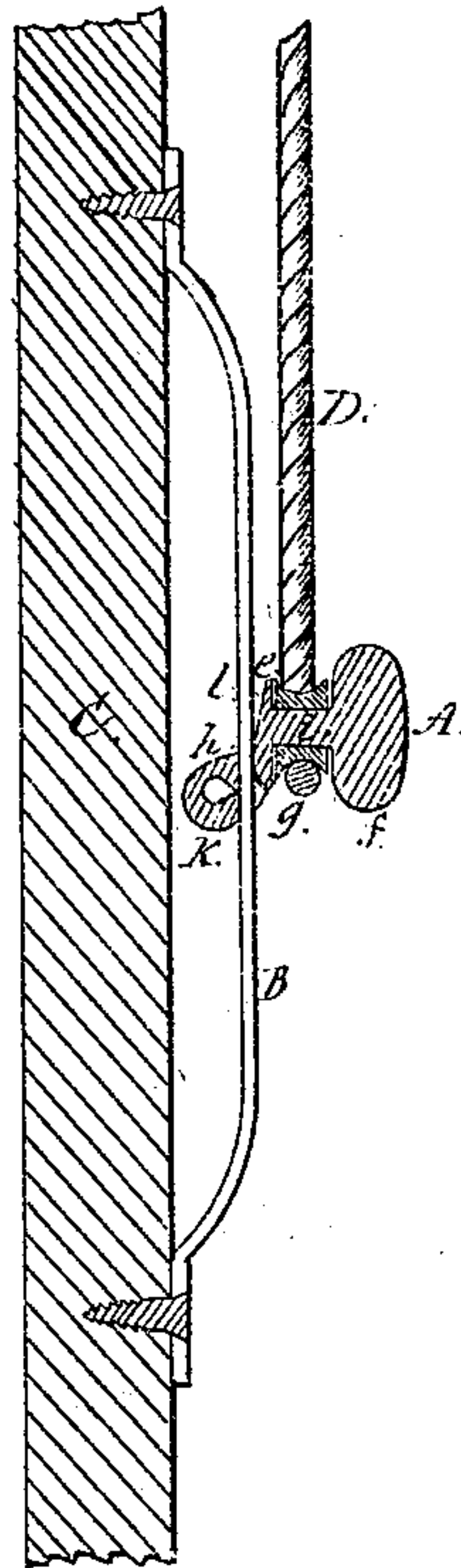


Fig. 2.

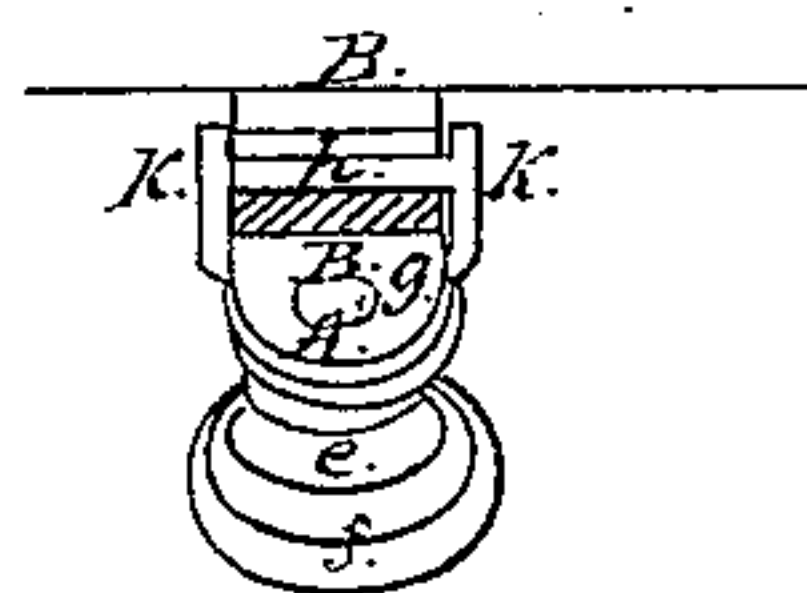
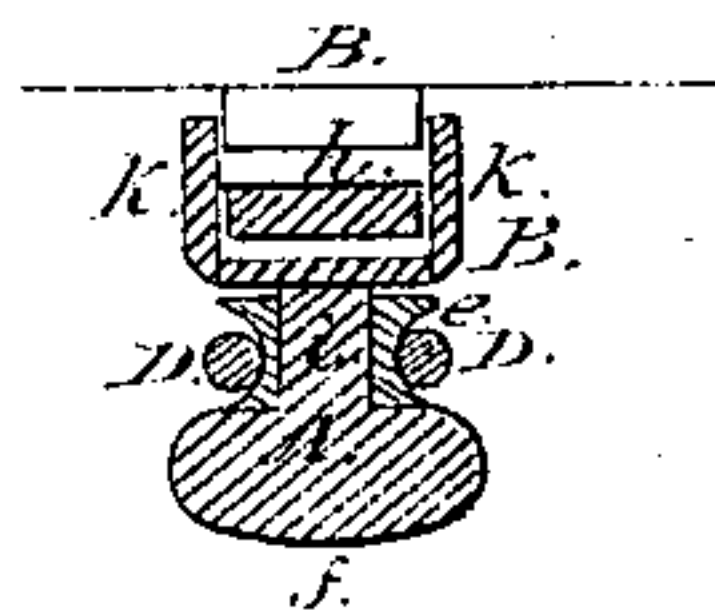


Fig. 4.



Witnesses;
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LEWIS B. GUSMAN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO L. B. GUSMAN, H. W. SAFFORD, AND H. SAFFORD, OF PHILADELPHIA, PENNSYLVANIA.

CURTAIN-FIXTURE.

Specification of Letters Patent No. 16,673, dated February 17, 1857.

To all whom it may concern:

Be it known that I, LEWIS B. GUSMAN, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Window-Curtain Fastenings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 shows a vertical longitudinal section and Fig. 2, a top view of the apparatus, without the cord, applied to the window casing; and Figs. 3 and 4, like representations, with the cord as acting upon the same—like letters indicating the same parts in the different figures.

The nature of my invention consists in a peculiar construction of the piece to which the cord-pulley and knob are usually attached, whereby it is adjustably held in position, as required, upon a plain strip of metal or bracket attached in a vertical position to the window casing, by the simple strain of the cord alone; and thus dispensing with the usual rack teeth, or grooves across the bracket or vertical strip, and also with the sliding plates or springs, heretofore necessary in connection therewith.

Referring to the drawings, A is the piece upon which the cord-pulley (*e*) and knob (*f*) are attached in the usual manner; B, is the bracket or a plain strip of metal bent, and fixed by screws to the window casing (C), and upon the straight part of which, the piece (A) is capable of being readily moved up and down, when held in the position shown in Figs. 1 and 2; and also of being held fixedly at any desired part of the same (as shown in Figs. 3 and 4,) by the simple strain of the cord (D) which is attached as usual to the curtain-roller above.

The piece A, is substantially a bent lever, having an opening, with parallel sides and ends, between and formed by its fulcrum (*g*) and weight point (*h*), and within which opening the vertical piece (B) fits loosely when the lever is in the position shown in Figs. 1 and 2; and tightly, when in the po-

sition shown by Figs. 3 and 4,—the power end of the lever being the stem (*i*) upon which the pulley and knob are placed.

On examining Fig. 3, it will be seen that the weight point of the lever bears against the inner side of the strip (B) at a place somewhat below that, on the outer side of the same, at which the fulcrum (*g*) bears; and that consequently, the greater the strain of the cord upon the stem (*i*) the more tightly will the piece A, be held upon the bracket piece B; and also, that when the knob (*f*) is pressed downwardly by one's thumb or finger, the grasp of the lever upon the bracket ceases, and it can then be adjusted to suit any required degree of tension in the cord—no teeth nor springs being required.

I usually make the lever piece (A) with two lugs (*k*, *k'*) bent up at right angles to the beveled face (*l*) of the stem, so as to admit the flat bracket-bar (B) between them, and fix a square or triangular pin through them so as to produce the weight point (*h*) as shown in the drawing—but the whole apparatus may be formed out of thick sheet brass, and being very simple in construction—as the rack teeth and pawls or springs heretofore required are entirely dispensed with it is not near so liable to get out of order, and can also be made much cheaper.

I do not claim the general application of a 'lever nip' as a substitute for teeth to prevent slipping; but

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

The use of the lever, A, constructed substantially as described, when the said lever is caused to operate upon the bracket, B, in supporting a window curtain, by means of the upward strain of the cord, D; the whole being arranged and operating together in the manner and for the purpose set forth and described.

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Witnesses:

BEN. MORRISON,
JNO. W. KENNEY.