

E. J. Steele,

Curtain-Cord Tightener.

N^o 58,029.

Patented Sept. 11, 1866.

Fig. 1.

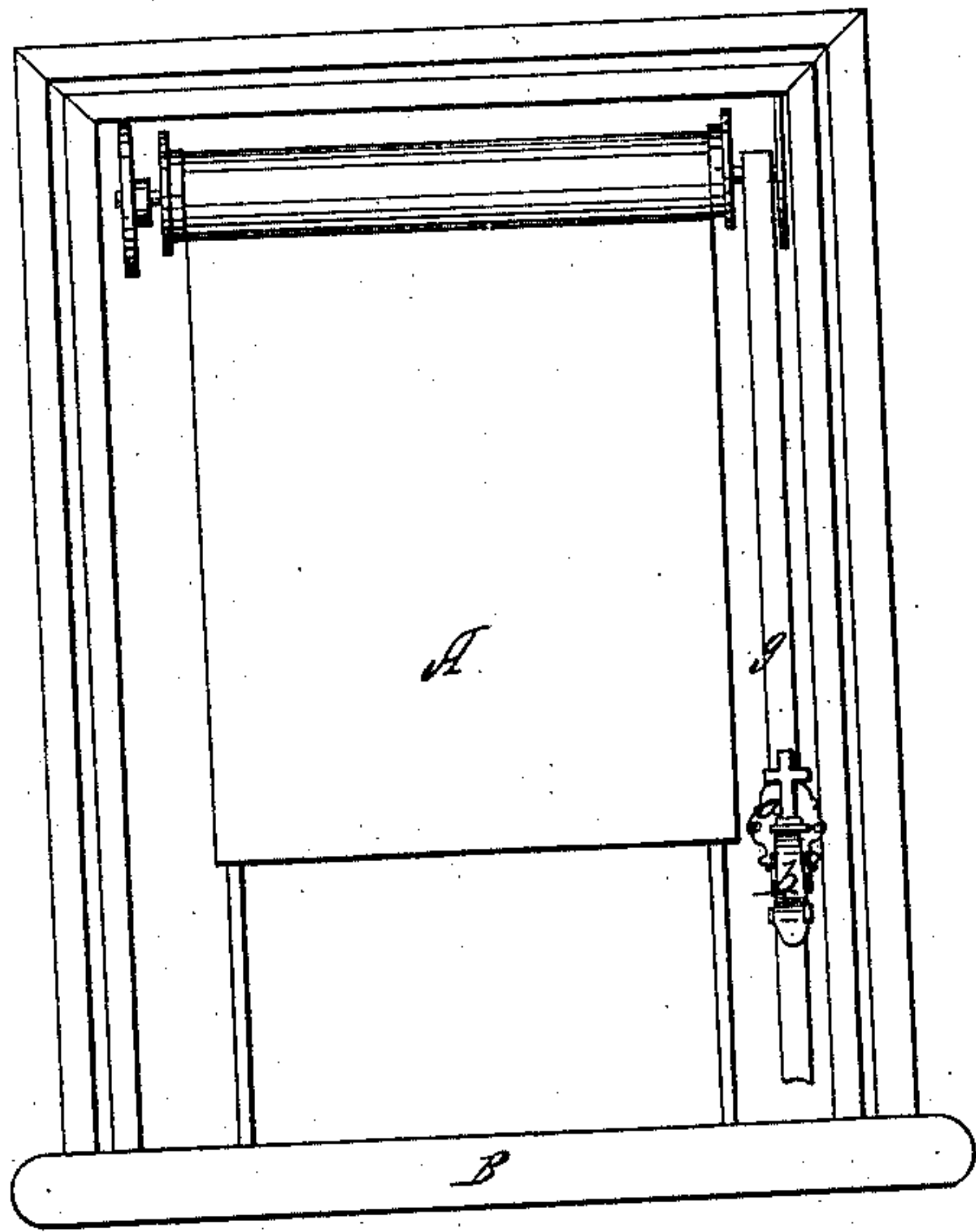
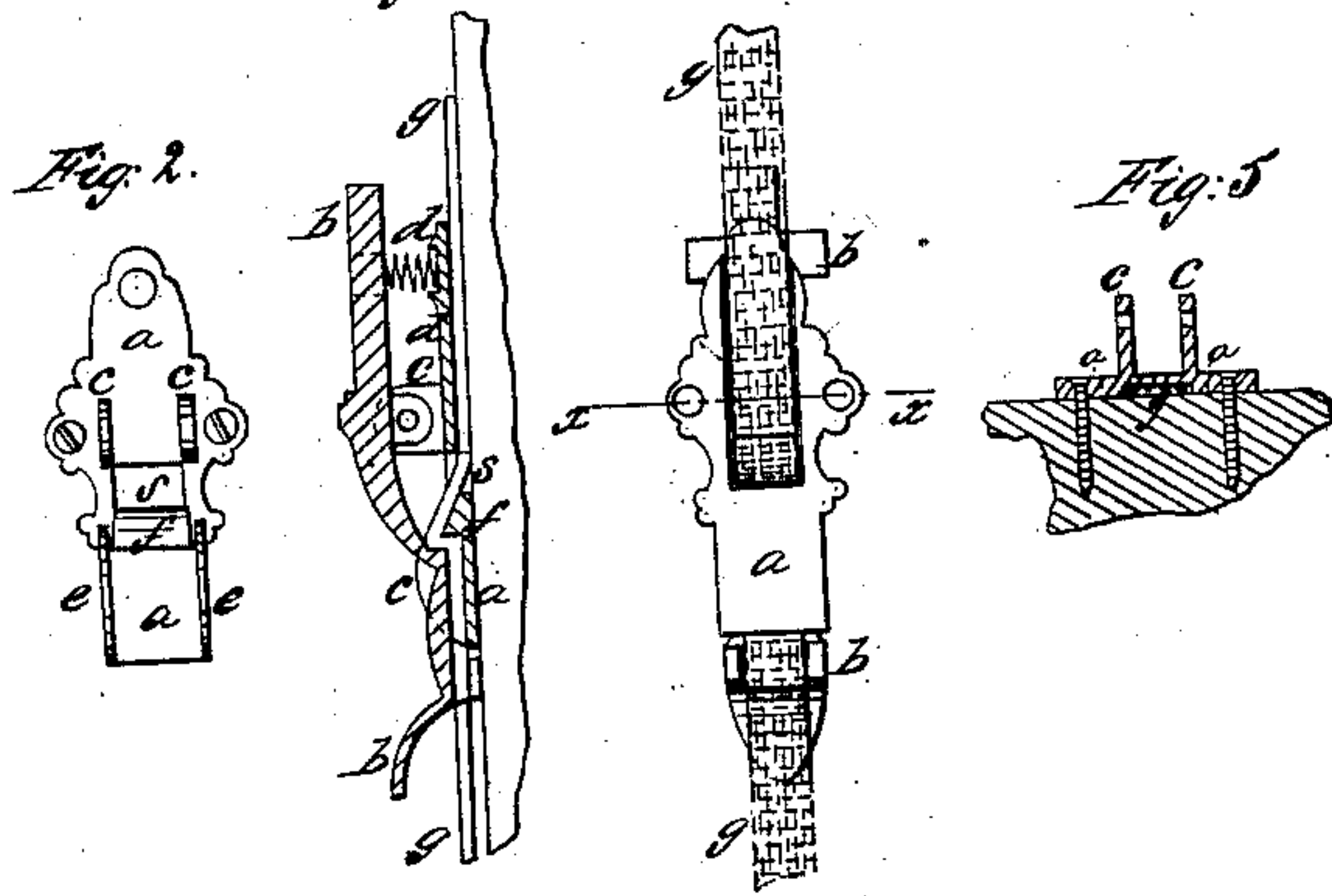


Fig. 3.

Fig. 4.

Fig. 2.

Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

ELBRIDGE J. STEELE, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO
HIMSELF AND A. E. TAYLOR, OF SAME PLACE.

IMPROVED WINDOW-SHADE FASTENING.

Specification forming part of Letters Patent No. 58,029, dated September 11, 1866.

To all whom it may concern:

Be it known that I, ELBRIDGE J. STEELE, of New Britain, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement in Window-Shade Fastenings; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a window-shade with the fastening attached. Fig. 2 is a top view of the bed-plate of the fastening with the lever part removed. Fig. 3 is a central vertical section of the same. Fig. 4 is an under-side view of the same with the shade-cord connected. Fig. 5 is a cross-section on the line *x x*, Fig. 4.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the fastening for a window-shade cord or tape when a single cord or tape is used for operating the roller to raise or lower the shade.

By means of this device for securing the cord the shade is held firmly at any desired height, and may be raised and lowered very readily without any risk of breaking the cord or of twisting it when flat cord or tape is used, which are common difficulties with shade-fastenings.

The fastening is made of brass or any suitable metal and of various patterns.

The bed-plate *a* is made with a recess on the under side, running through a part of its length, as shown in Figs. 3, 4, and 5, which may be formed either rectangular or semicircular to fit a flat or round cord, and at the lower end of which recess there is an opening, *s*, in the bed-plate, for the passage of the cord through it, as shown in Figs. 2 and 3.

A thumb-lever clamp, *b b*, is pivoted on the upper side of the bed-plate *a* to projections *c c*, Figs. 2 and 3.

On the under side of the upper end of the lever *b b* is attached a spiral spring, *d*, Fig. 3, the lower end of which rests on the bed-plate *a* in a little socket or countersunk hole, as shown in Figs. 2 and 3.

The lower limb of the lever curves down to the bed-plate and beyond the end, so as to be flush with the under side, and allow the edges on each side of a recess to rest upon the window-casing, as shown in Figs. 3 and 4.

The lower part of the bed-plate *a* is turned up at the sides, forming flanges *e e*, to act as guides for the cord *g*, and to keep the lever *b* in place, and at the lower side of the opening *s* the edge of the bed-plate is raised, so as to form a shoulder, *f*, for a bend in the lower limb of the lever to bear against and clamp the cord in a crease or corrugation, to prevent it from slipping easily, as shown in Figs. 2 and 3.

A, Fig. 1, represents a window-shade, hung to the casing *B* by a single flat cord, *g*, attached to the fastening above described; and it will be particularly observed, in the first place, that the cord cannot twist or get out of place, as it lies snugly in the recess in the bottom of the bed-plate *a* and the lever-clamp *b b*, which holds it in place, and also that the shade remains suspended at any height by the pressure of the lower limb of the lever-clamp against the cord *g* caused by the spring *d*, and especially of the bend in the lever against the shoulder *f* in the bed-plate *a*, which produces a crease or corrugation in the cord that prevents it from slipping.

It will also be seen, as a peculiar feature in this device for fastening window-shades, which confers upon it great convenience and durability, that by touching the upper part of the lever *b* and depressing the spiral spring *d* the lower limb of the lever is raised so as to relieve the pressure upon the cord *g*, when the shade may be lowered very easily by pulling on the lower edge gently, or on a tassel; or it may be so set and regulated by bearing on the spring as to fall of itself very gradually. These features are of great practical importance, and distinguish this shade-fastening from all others in use.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The constructing a window-shade fastening with a bed-plate, *a*, in the under side of which is a recess for receiving the cord *g* be-

tween it and the window-casing, a hole, *s*, for the cord to pass through over the shoulder *f*, with a crease or corrugation in it to prevent slipping, combined with the spring-lever clamp *b*, substantially as and for the purposes herein described.

2. The lever-clamp *b*, with a recess in it for receiving the cord under the lower limb, in

combination with the spiral spring *d* and the bed-plate *a*, constructed and operated substantially as and for the purposes herein specified.

ELBRIDGE J. STEELE.

Witnesses:

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