

J.C. GOVERS

CURTAIN FIXTURE

Fig. 1.

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Fig. 3.

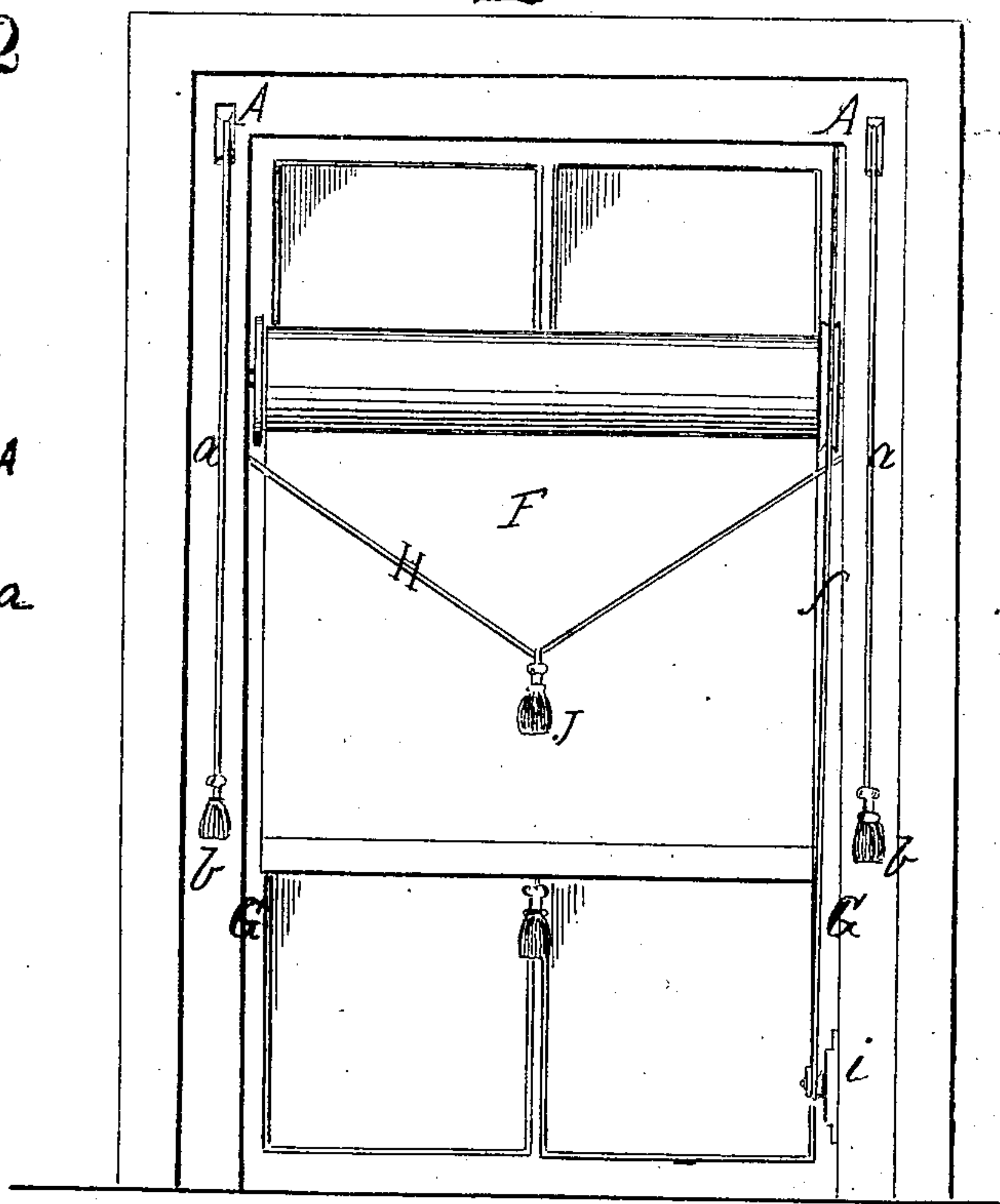
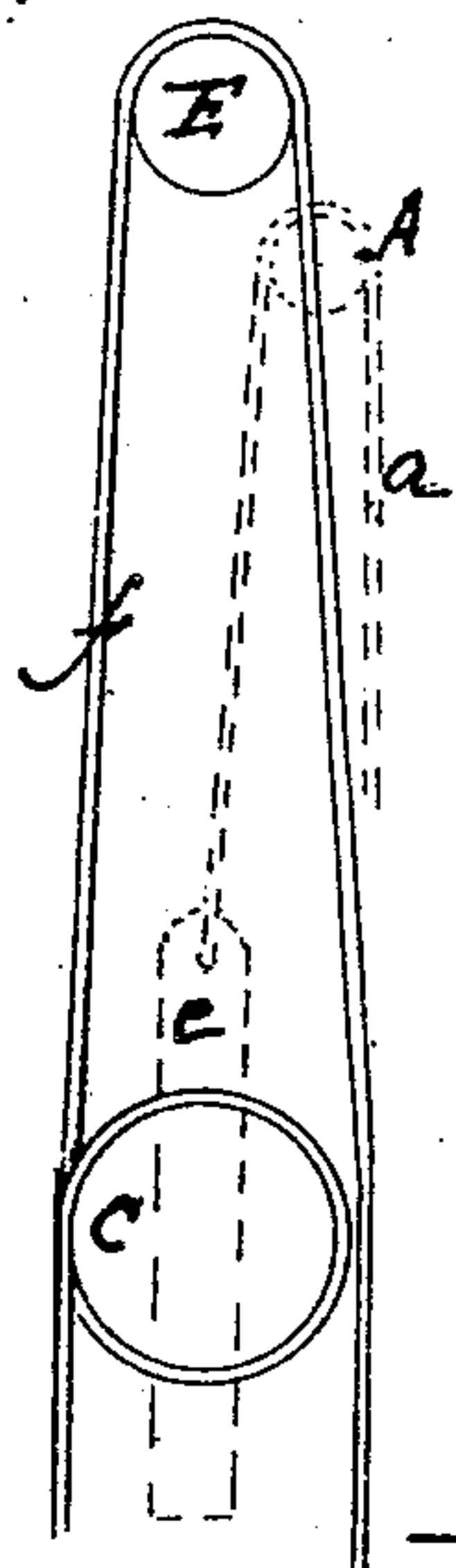


Fig. 2.

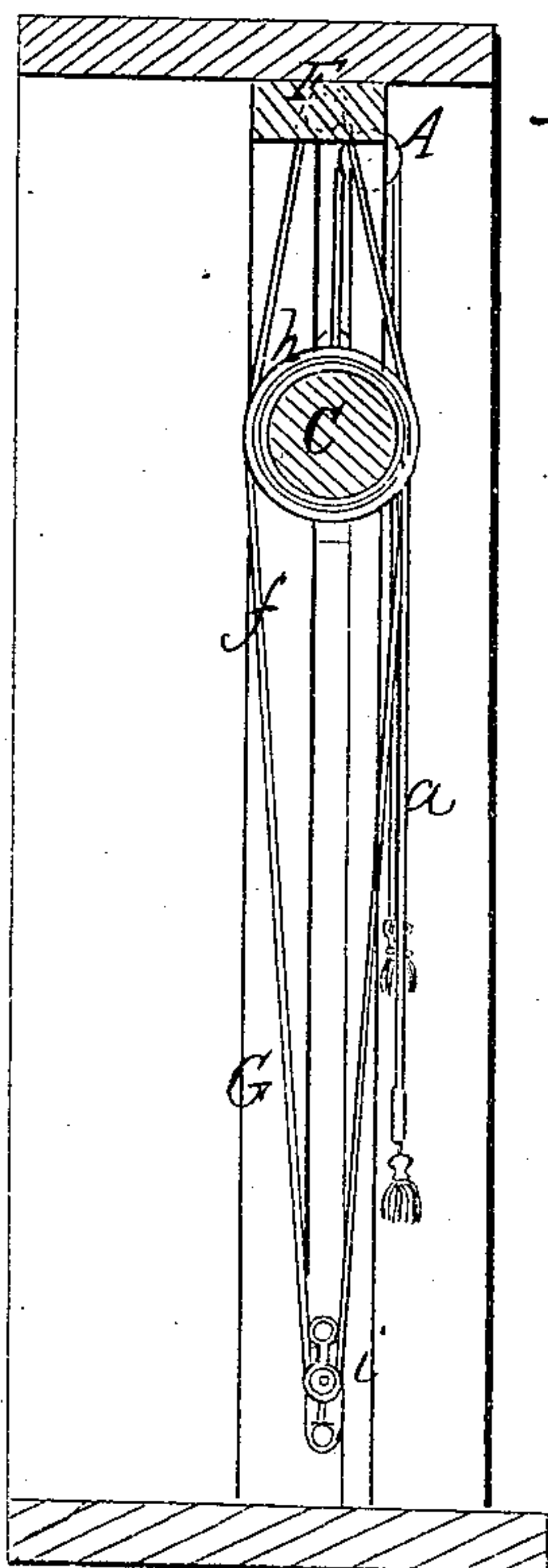


Fig. 4.

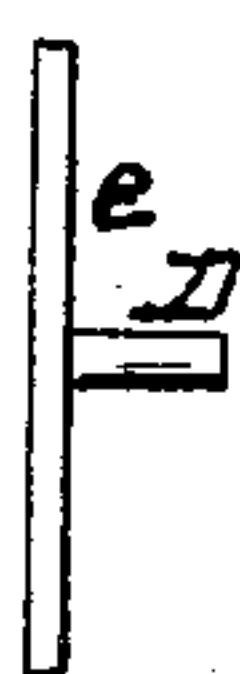
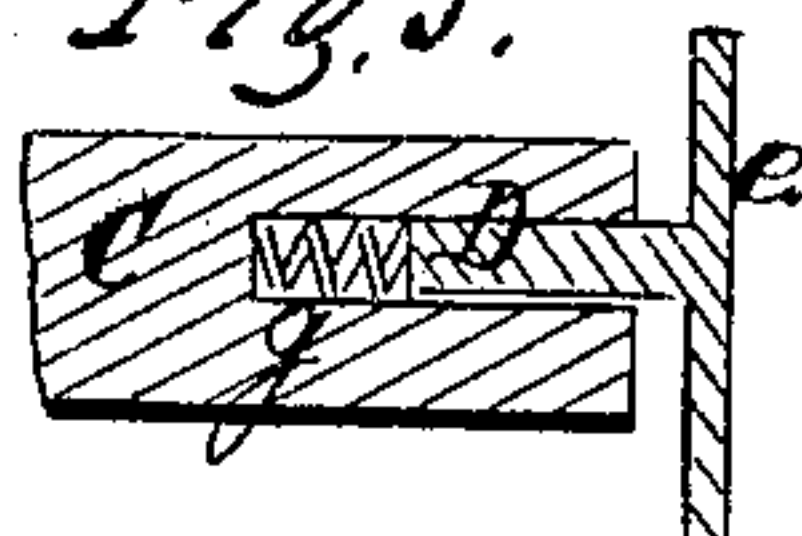


Fig. 5.



Witnesses
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JOHN C. GOVERS, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 75,152, dated March 3, 1868.

IMPROVED WINDOW-SHADE.

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, JOHN C. GOVERS, of the city of Washington, in the District of Columbia, have invented certain new and useful Improvements in Devices for Adjusting Window-Shades; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention relates to window-shades, and consists in a novel construction and arrangement of devices for adjusting the shade at different heights, at will, and also for having it wind and unwind on the roller, at whatever point it may be adjusted. In the drawings—

Figure 1 is a front elevation on the inside.

Figure 2 is a longitudinal vertical section on the line *x-x* of fig. 1.

Figures 3, 4, and 5, are views of parts detached.

In hanging window-shades, it is often very desirable to have the roller, upon which they turn, and from which they are suspended, arranged so that it may be adjusted at different heights without interfering with the devices for raising and lowering the shade itself; and it is also desirable to construct the devices for this purpose in such a way that they may be readily applied to all classes of windows. My invention has for its object these purposes.

In constructing and arranging my devices, I cut longitudinal grooves, *B*, in the stops *G*, on each side of the window, as shown on one side in fig. 2. Immediately over the grooves *B*, and at the extreme upper end of the stops *G*, I insert pulleys *A*, as shown in fig. 1. Between the grooves *B*, I place the roller *C*, having circular openings in each end to receive the journals *D*, which are constructed with a cross-head or slide, *e*, attached, as shown in figs. 3, 4, and 5, to slide in the grooves *B*, as shown in fig. 2. Between the inner end of the journal *D* and the bottom or end of the opening, at one end of the roller *C*, I insert a spiral spring, *g*, or other suitable device, for pressing the slides *e* against the inner sides of the grooves *B*, and thus holding the roller *C* in place. I can also secure the same result by making the roller *C* hollow its entire length, and placing the spiral or other spring between the ends of the journals *D*, having made them long enough for the purpose. To the upper ends of the heads of the slides *e*, I attach a cord, *a*, which passes over the pulleys *A*, and attach to it a tassel, *b*, which has within it a weight of lead, to assist in balancing the shade *F*, when placed on the roller *C*. The attachment of the cord *a* to the head of the slide *e*, and the manner of passing it over the pulley *A*, are clearly shown in fig. 3. In the continuation of the stop *G* across the upper side of the window, and at one side, I insert a pulley, *E*, as shown in dotted lines in fig. 2. The end of the roller *C*, under the pulley *E*, I provide with a grooved wheel, *h*, or one may be turned on the roller when it is made, and at the bottom of the groove *B*, or at any suitable place, I attach the common adjustable curtain-fixture *i*, as shown in figs. 1 and 2. I then pass the endless cord *f* over the pulley *E*, and pass it once around the grooved wheel *h*, and then down around the fixture *i*, as shown in fig. 2. The manner of passing it around the groove or grooved wheel at the end of the roller *C* is clearly shown in fig. 3. The object of making the slides *e* long, as shown in figs. 4 and 5, is to give them a greater bearing in the grooves *B*. To the slides *e*, below the journals *D*, I attach the cord *H*, and provide it with tassel *J* in the centre.

When the curtain *F* is hung in this way, by pulling downward on the cord *H*, the roller *C* may be made to descend as far as desired, the cord *f* moving freely on the fixtures *i* and pulley *E*, but remaining stationary on the groove or grooved wheel at the end of it. The bearing of the slide *e* against the inner sides of the grooves caused by the spring *g*, together with the balancing weight in the tassels *b*, will cause the roller *C* to remain at whatever point it may be drawn. To pull it up, it is only necessary to take hold of the tassels *b* and pull downward.

It is obvious that this arrangement of devices may be applied to windows when first constructed, or afterwards. In this way I am able to construct and arrange a cheap and convenient device for adjusting window-shades.

Having thus described my invention, what I claim, is—

1. In combination with the roller *C*, the spring *g* and journals *D*, with the slide *e* attached to move in the grooves *G*, when constructed and arranged to operate substantially as described.
2. The roller *C*, spring *g*, journals *D*, and slide *e*, attached, in combination with the groove *G*, and cords *a* and *f*, when constructed and arranged to operate substantially as described and for the purpose set forth.

Witnesses:

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