

T. H. PALING.
Window Shade.

No. 201,553.

Patented March 19, 1878.

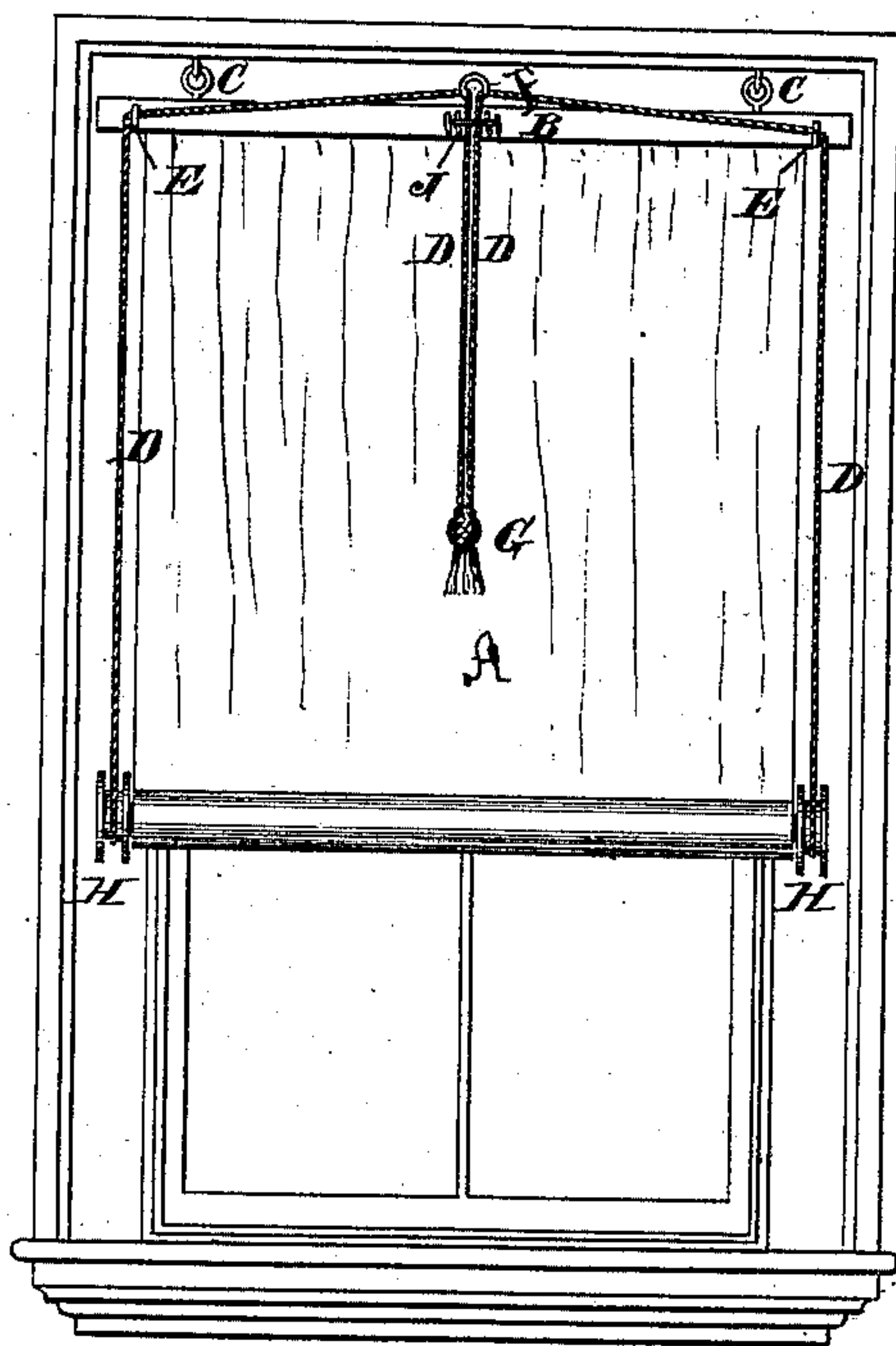


Fig. 1.

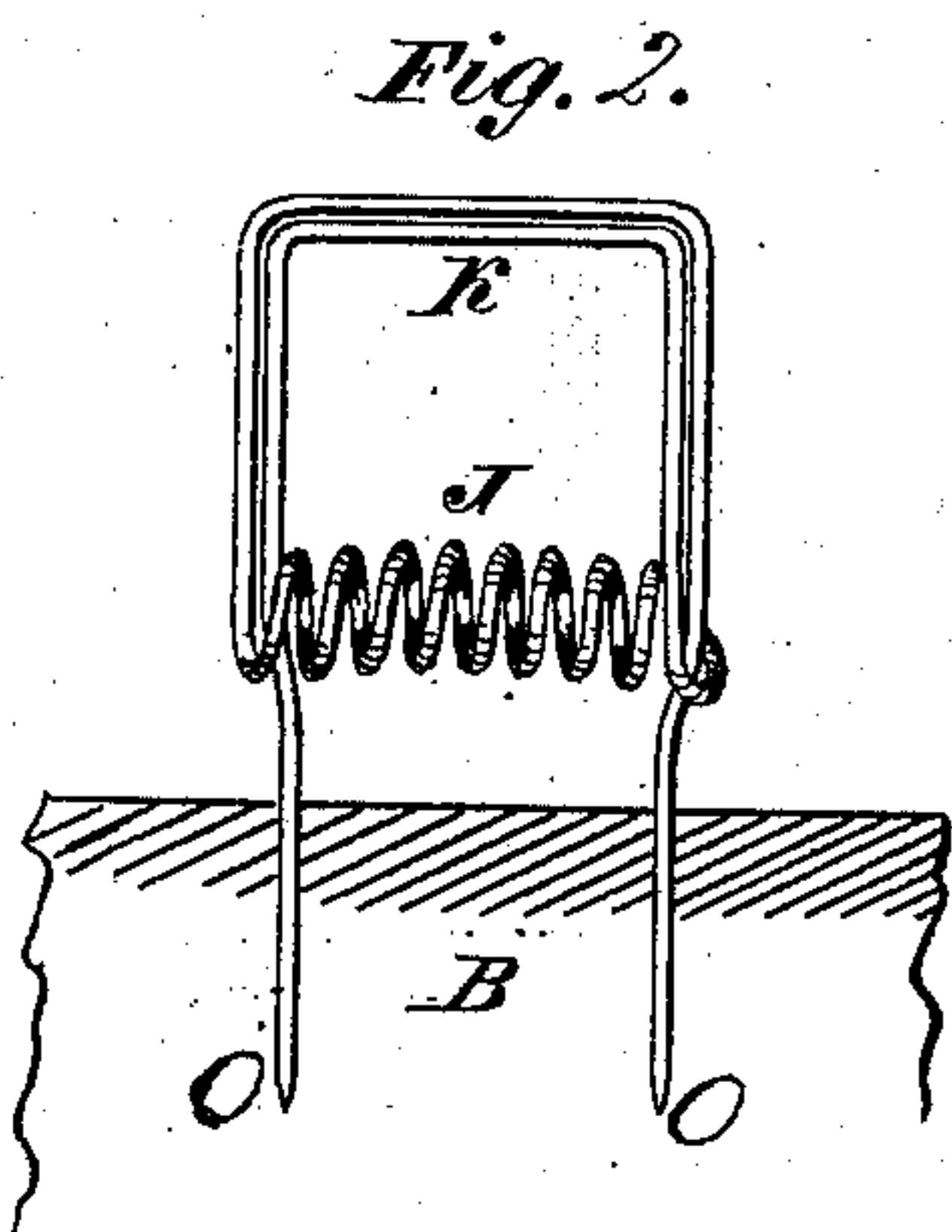


Fig. 2.

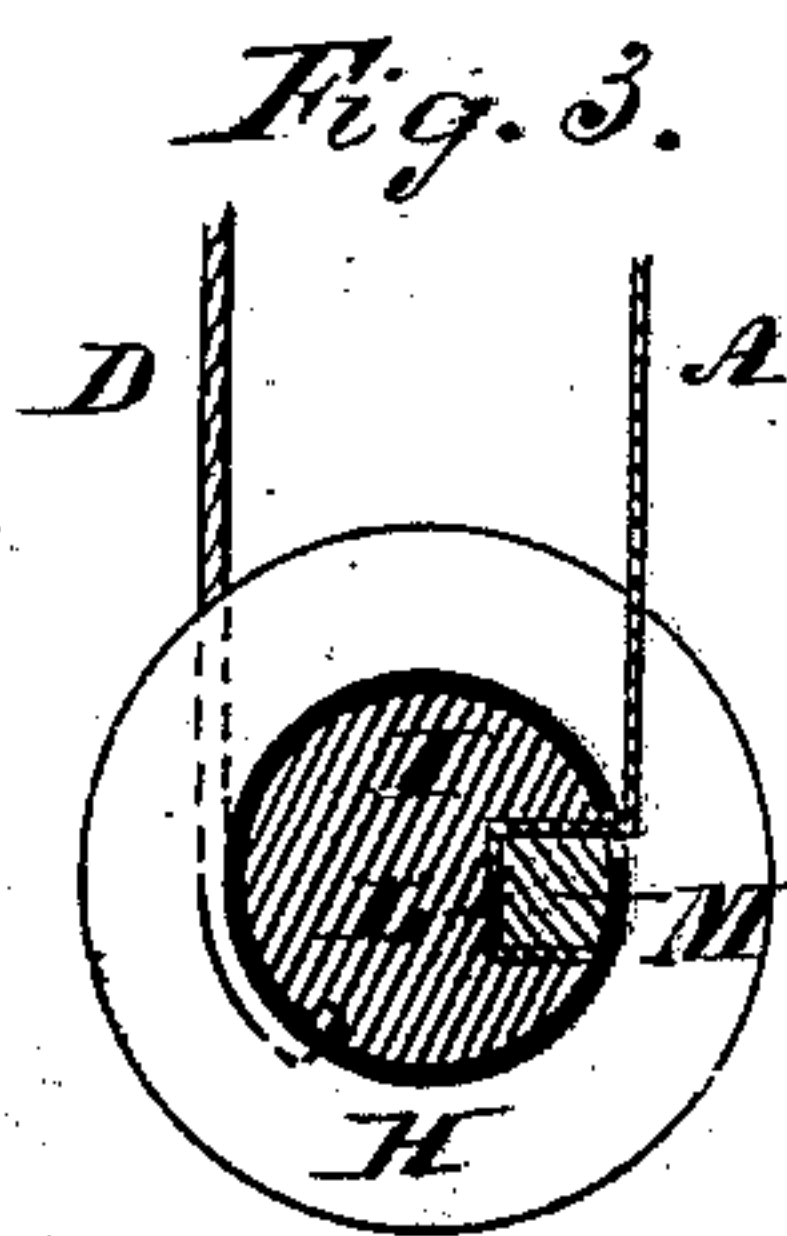


Fig. 3.

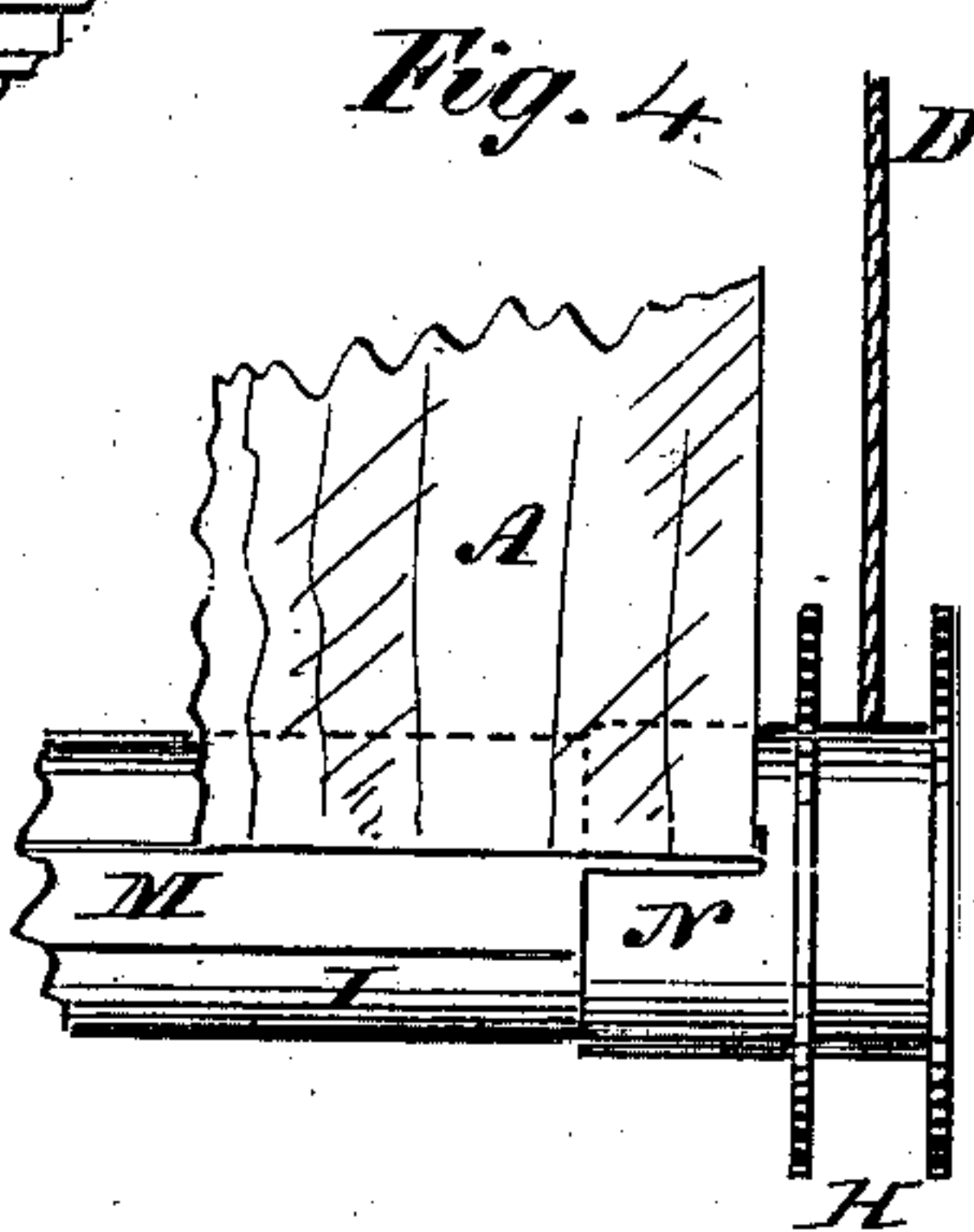


Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

THOMAS H. PALING, OF WOODSTOCK, ONTARIO, CANADA.

IMPROVEMENT IN WINDOW-SHADES.

Specification forming part of Letters Patent No. **201,553**, dated March 19, 1878; application filed November 19, 1877.

To all whom it may concern:

Be it known that I, THOMAS HENRY PALING, of Woodstock, in the county of Oxford, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements on Window-Shades; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention has for its object to retain the cord of a window-shade roller at any desired position.

It consists of a cord-retaining device constructed of wire spirally coiled to receive the cord interveniently, and retain it by compression and jamming therein, and bent rectangularly to form a loop to confine the cord closely to the cylinder, and having prongs to be driven into the wood for affixing the device.

Figure 1 is a front elevation of a window-shade, showing my invention. Fig. 2 is an enlarged view of the cord-retaining device. Fig. 3 is a detail sectional view of the shade-roller transversely, and Fig. 4 is a detail view of the same longitudinally.

A is the curtain or shade; B, a bar to which the shade is fastened, and which bar is hung to the window-top by hooks and eyes C, or other contrivance.

D D are cords passing separately through eyes E near the ends of the bar B, and conjointly through a central eye, F, the ends attached to a tassel, G. The other ends of the cords are attached to spools H H, fixed on the ends of a roller, I, to which the lower end of the shade is attached, so that by pulling down the tassel the cords are unwound from the spools, which travel up the window-jamb on their flanges, taking up the shade on the roller as they go.

When the tassel is lifted or pulled out of contact with the cord-retainer, the weight of the roller carries down the shade as the cords are wound upon the spools.

By my invention I am enabled to dispense with the use of a weighted tassel, and yet retain the cord in all classes of shades using a cord and roller, whereby the roller is held by the cord at any desired position.

My cord-retainer consists of a spiral-wire cylinder, J, the ends of the wire turned toward the opposite end of the cylinder rectangularly to form a loop, K, over the same, and

thence downwardly to form prongs, which are driven into the wooden jamb or head of the window-frame. The cord passes through the loop K, by which it is prevented from swinging out of place when loose, and when the roller is to be retained at any suitable height, the cord is manipulated to be drawn diametrically between the coils of the spiral-wire cylinder, and the compression of the spring in the line of its axis and the jamming of the cord in its angulation retain the cord and prevent it from slipping.

The cord is withdrawn by simply pulling it from the cylinder by an angular manipulation, and the roller will then fall.

If desired, the ends of the wire of the spiral coil may be bent directly to form the prongs O without the loop, and the loop formed by an independent wire bent into the form of a square staple, and driven into the wood alongside the prongs O.

This cord-retainer is secured to the bar B in the class of window-shade delineated in the drawings, but is attached to the window-jamb when a roller is operated at one end by a single cord winding and unwinding the shade from the roller when journaled near the head of the window-frame.

The preferred manner of securing the shade to the roller is as follows: L is a longitudinal groove in the roller, and M is a tongue fitting therein. The end of the shade is inserted in the groove, and confined therein by said tongue, and the tongue confined in the groove by spools, on which the cords wind, each spool having a socket or sleeve, N, provided with a slot, which socket fits over the ends of the roller and tongue, the edge of the shade passing into the slot, thus confining the tongue and shade in the longitudinal groove, the slot allowing the side edges of the shade to nearly touch the flange of the spools.

I claim as my invention—

A window-shade cord-retainer consisting of a spiral-wire coil, J, bent to form the loop K, and the prongs O, by which latter the retainer is directly attached to the window, substantially as set forth.

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Witnesses:

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