

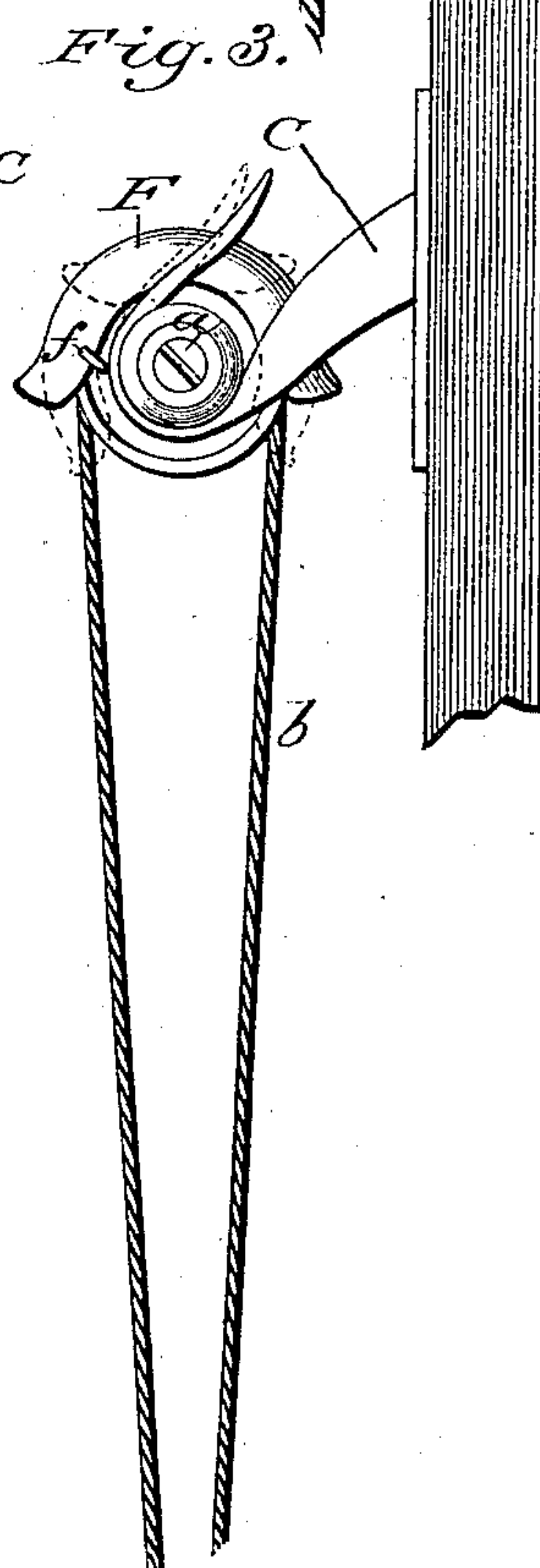
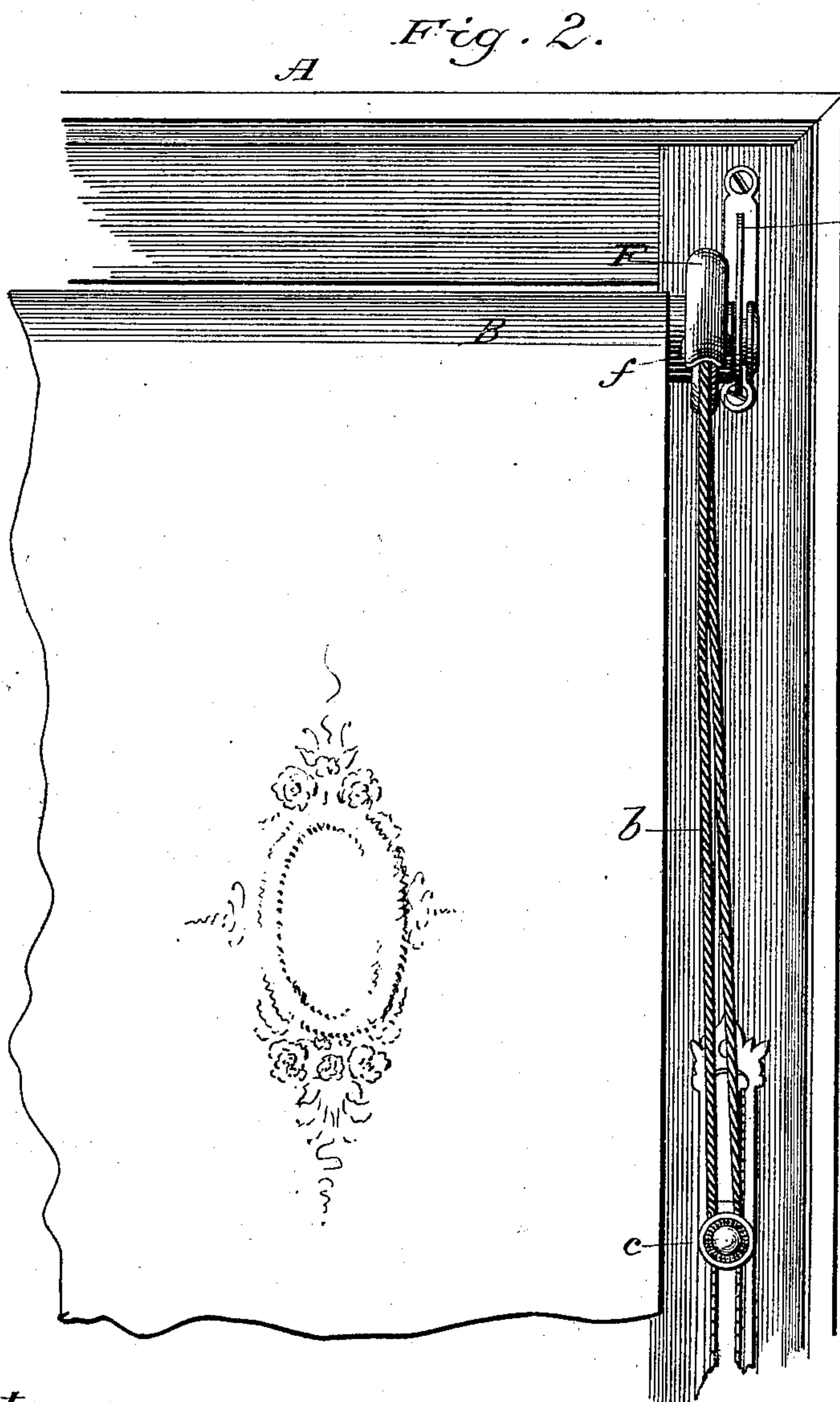
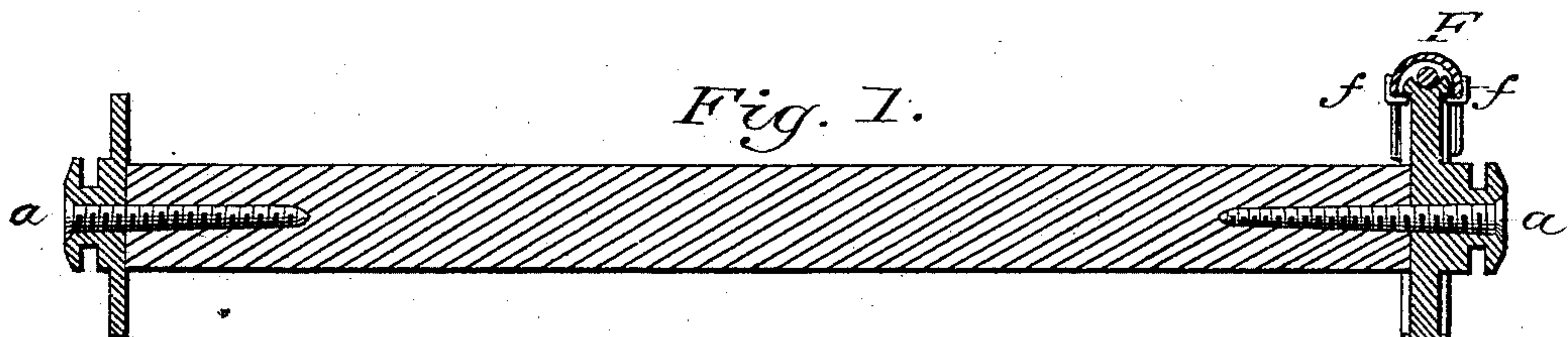
(No Model.)

S. A. HURLEY.

PULLEY AND ATTACHMENT FOR WINDOW SHADE ROLLERS.

No. 272,882.

Patented Feb. 27, 1883.



Witnesses:

M. J. Sullivan
P. D. Sullivan

Inventor:

S. A. Hurley

UNITED STATES PATENT OFFICE.

SUSAN A. HURLEY, OF WASHINGTON, DISTRICT OF COLUMBIA.

PULLEY AND ATTACHMENT FOR WINDOW-SHADE ROLLERS.

SPECIFICATION forming part of Letters Patent No. 272,882, dated February 27, 1883.

Application filed January 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, SUSAN A. HURLEY, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Pulleys and Attachments for Window-Shades; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in pulleys and attachments for window-shades, as set forth in the accompanying drawings, either for buildings or for carriage-window shades, in which A is a frame; B, rollers. C are spring-brackets. F is a hood on cord end of roller. *f* are projections on hood for connecting hood to roller, and fitting into grooves on roller, which slide around freely. *a* is screw on roller for connecting the roller to the roller-stick; *b*, cord; *c*, cord-holder.

Figure 1 represents the roller with pulley attached. Fig. 2 represents a front view of my device ready for use. Fig. 3 represents a view of the roller and bracket.

Spring-brackets are made of moderately thin brass or other flexible metal, and are made with the long open slot, as shown in drawings, into which the rollers are placed after attaching the shade thereto. The journals and cord-spools are fastened on the curtain-roller by means of the long stationary screw attached to the rollers, which does away with the nailing on, as in those now in use, and can be easily attached and remain firm. This long screw is fixedly fastened to the center of the rollers, on which are knob-like projections on the outside, which fall into the long slot in the brackets. The neck of this knob falls into the brackets C, with its knob-shaped projections

falling outside on each side, and preventing it slipping off, no matter how roughly used. The cord end of the roller has a hood or cord-shield, F, which nearly conceals the cord on the roller, and prevents the cord from ever slipping off the roller, as shown in the accompanying drawings, in which F shows the hood, and the shade can be pulled down or rolled up quickly with perfect safety. The projections *f* on hood, as described, are small clamps fitting into grooves on the roller on the cord end of roller, and which allow the hood to slide around freely in the reverse direction when the shade is being drawn up or down. This hood has a slight flaring out at the opening, under which the cord is passed, thus allowing the cord to be passed freely, and gives free motion to the cord. When the arrangements are all complete—as, for instance, when the rollers are attached to the roller-sticks by means of the long stationary screw *a*, with the knob-shaped projections, the neck of this knob fitting into the long slots in the brackets C, with the knob falling outside—it is slightly pressed down, and will spring into the brackets and remain in perfect order, no matter how roughly used, and any ordinary fastening will answer to fasten the cord at the bottom of the window-frame.

What I claim as my invention is—

Spring-brackets C, rollers B, with the long stationary screw *a*, and hood F, with its small projections *f*, which attach the hood to roller, arranged substantially as set forth in the accompanying drawings.

In testimony whereof I affix my signature in presence of two witnesses.

SUSAN A. HURLEY.

Witnesses:

C. S. DRURY,

WM. M. O'BRIEN.