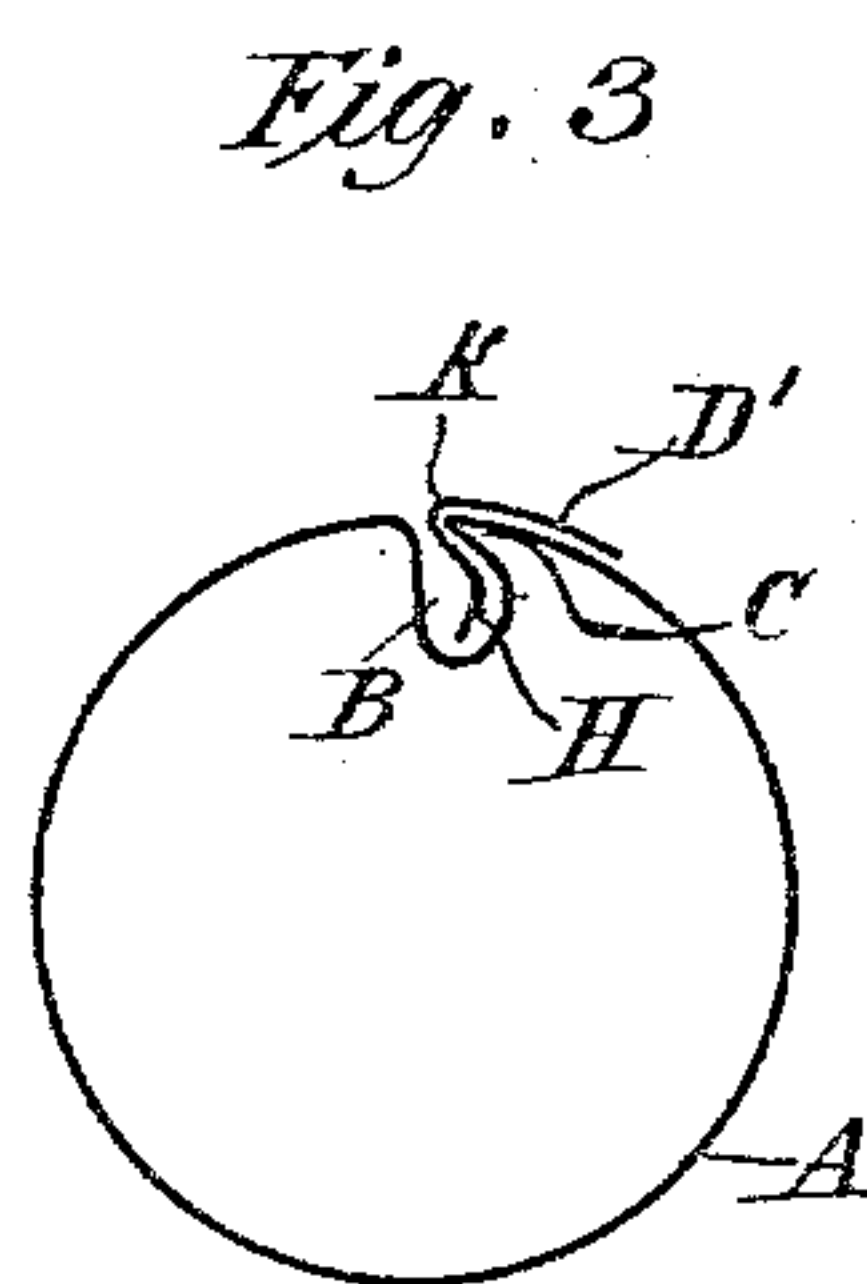
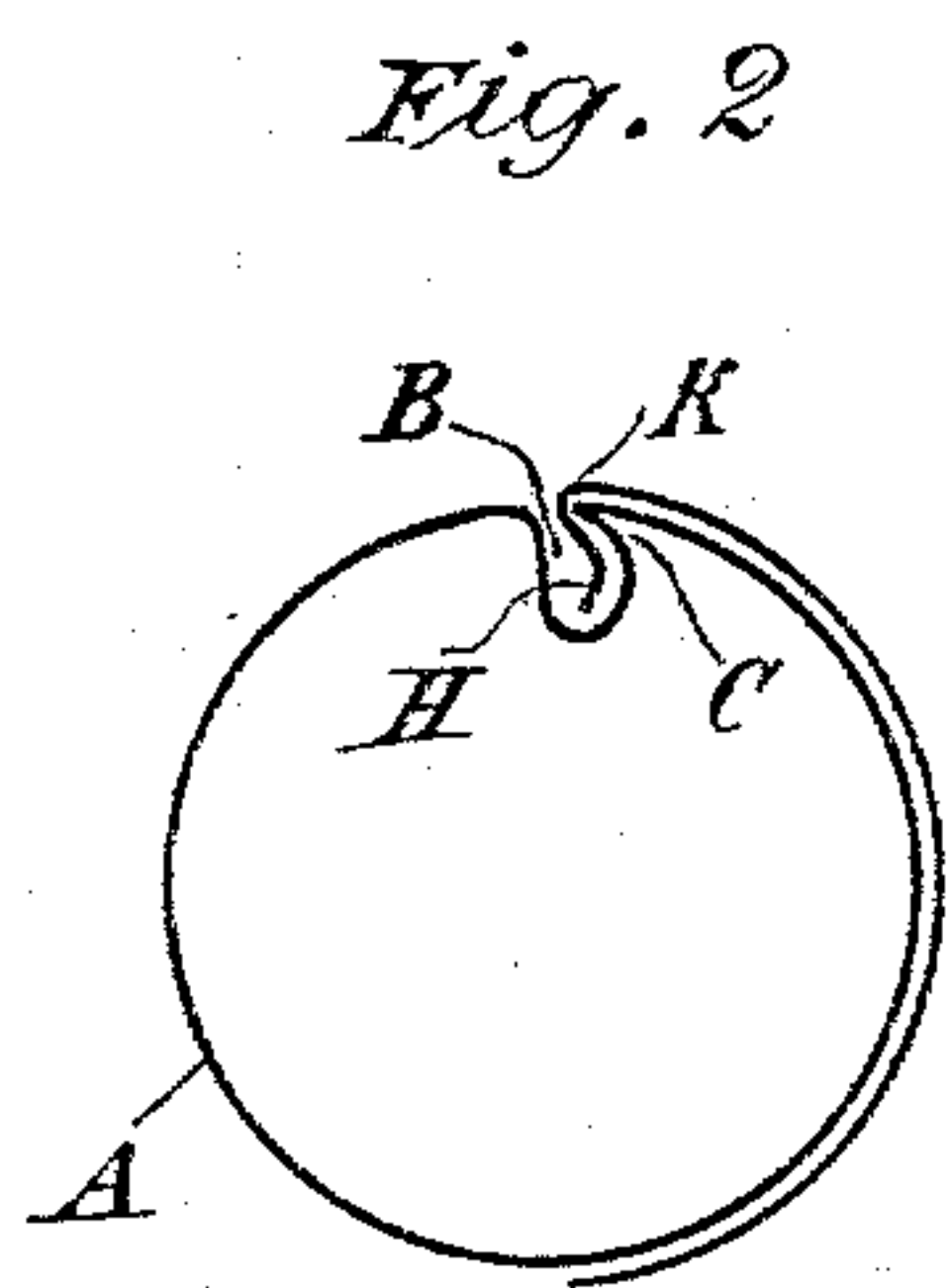
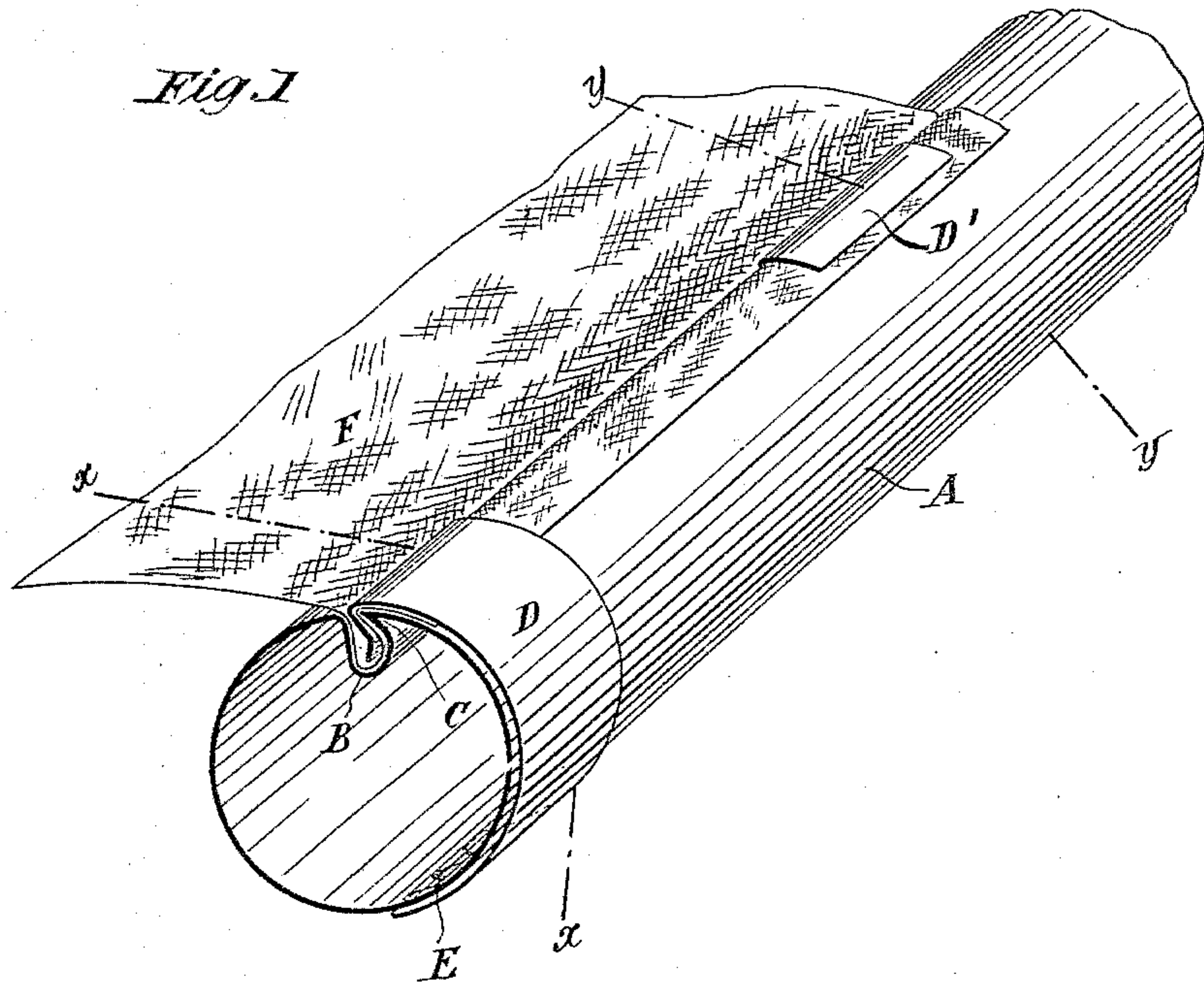


(No Model.)

P. H. BRANGS.
SHADE ROLLER.

No. 556,839.

Patented Mar. 24, 1896.



Witnesses:
Raphael Netter
James M. Chittow.

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UNITED STATES PATENT OFFICE.

PAUL H. BRANGS, OF NEWARK, NEW JERSEY.

SHADE-ROLLER.

SPECIFICATION forming part of Letters Patent No. 556,839, dated March 24, 1896.

Application filed October 20, 1894. Renewed October 31, 1895. Serial No. 567,555. (No model.)

To all whom it may concern:

Be it known that I, PAUL H. BRANGS, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Shade-Rollers, of which the following is a specification, reference being had to the drawings accompanying and forming a part of the same.

My present invention is an improvement in devices for securing a curtain or shade to its roller whereby the attachment and detachment of the same may be very greatly facilitated; and it consists in the combination, with a grooved or slotted roller, of fastening-clips of peculiar conformation, by means of which the edge of the shade is jammed and secured in said groove.

Heretofore shade-rollers both solid and hollow have been provided with a longitudinal groove for receiving the edge of a shade, which latter has been secured in said groove by means of a bar or by means of separate fastening-pieces adapted to be forced or pushed into the groove over or between the portions of the shade contained therein; but these devices have been of such character as to render their ready insertion or withdrawal a matter of considerable difficulty, and the object of my present invention is to produce a combination of roller and fastening device which shall be more easy of application and removal and equally effective as a fastener.

The improvement which forms the subject of my application is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a portion of a shade-roller with a shade attached thereto by means of my improved clips or fasteners. Fig. 2 is a cross-section on line $x x$ of Fig. 1. Fig. 3 is a similar section on line $y y$.

A designates a shade-roller of any desired character, and composed of wood, a hollow cylinder of sheet metal, or other materials.

B is a slot extending longitudinally along the surface of the roller and having one edge, as C, projecting over the slot, so as to leave a narrow opening, and thinned down to form a sharp engaging edge.

D is one of the clips or fasteners. This consists of a strip of resilient sheet metal bent in semicircular form, having a diameter ap-

proximately that of the roller or slightly less, so that when placed in position it will bind or grip the roller.

At one end the clip D may be serrated, as at E, to engage with the shade and keep the end of the same under stretch. The other end of said clip is bent back upon itself to form a hook K to engage with the projecting edge G, and then backward or in a direction substantially at right angles to that portion of the said clip that engages with the edge C.

In using this device the edge of a shade F is folded back and the folded portion inserted into the slot B. At desired intervals the clips or fasteners D are then applied by inserting their hooked edges into the slot over the material of the shade, pinching or jamming the latter in the slot and then forcing the free end of the clip over or around the roller. The resilience of the metal permits this to be readily accomplished. There is little tendency of the clip to come out of the slot after having once been forced in, owing to the peculiar conformation of its hooked edge, but this tendency is still further reduced by the extended tail portion which embraces the roller. A strain or pull on the shade along the line of the slot tends to lift the straight or inwardly-extending edge H bodily out of the slot, but this tends only to force the inner surface of the under part of the hook K in closer contact with the underside of the edge C, and thereby binds the curtain the tighter.

I have found that the curved extension or tail of the clip may be dispensed with and a good fastener made, and this I have shown at D', Fig. 1. In this form the extension is simply cut off and the device used in the same way.

What I claim as my invention is—

1. The combination with a curtain shade-roller formed with a slot having a projecting or engaging edge of metal clips or fasteners formed at the end as a hook adapted to enter the slot and having an edge extending at substantially right angles to the hook or engaging portion of said clips as set forth.

2. The combination with a shade-roller formed with a slot having a projecting or engaging edge of metal clips or fasteners of semicircular form with a hook at one end adapted to enter the slot and having an edge

extending from said hooked portion at substantially right angles thereto.

3. The combination with a shade-roller as A having a slot with an engaging edge G, of
5 a shade or curtain, the folded edge of which is inserted in said slot, and metal clips or fasteners having a hooked portion K adapted

to enter the slot and engage with edge C and an inwardly-extending edge H, as set forth.

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Witnesses:

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F. W. BRANGS.