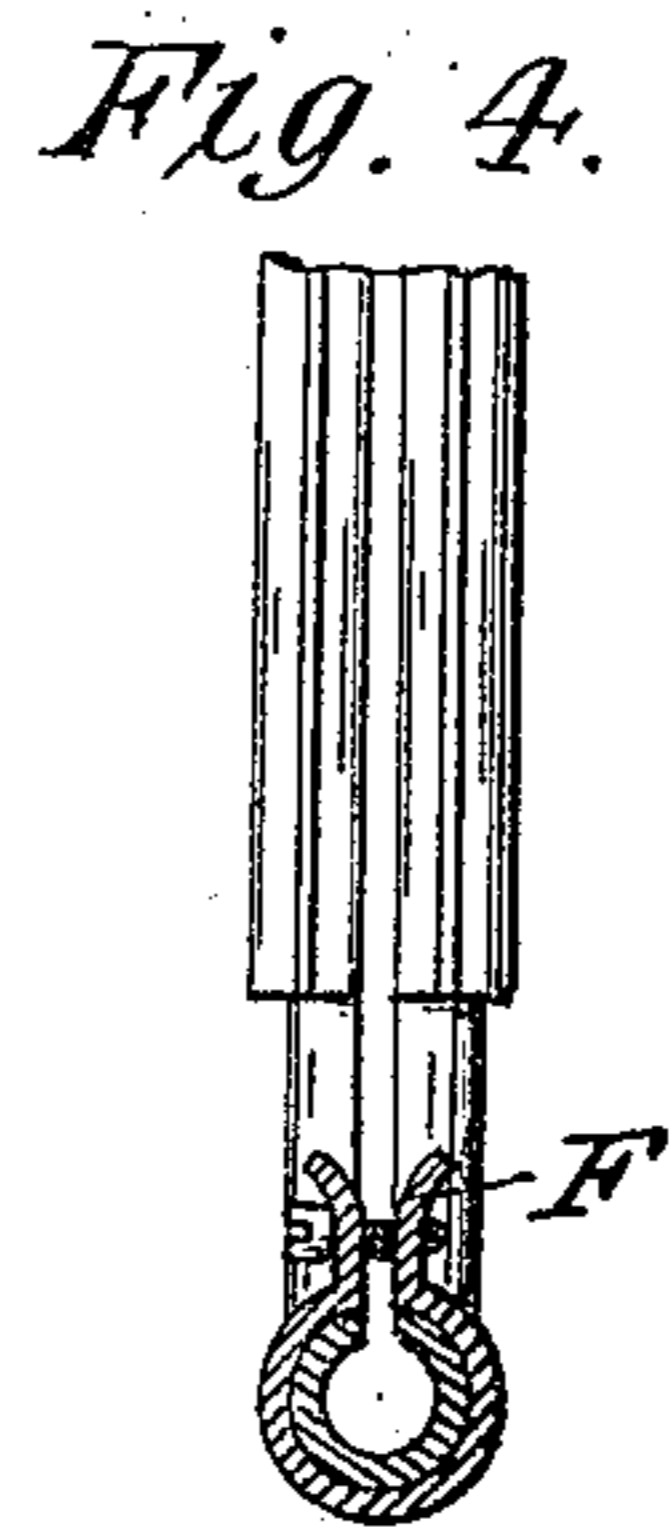
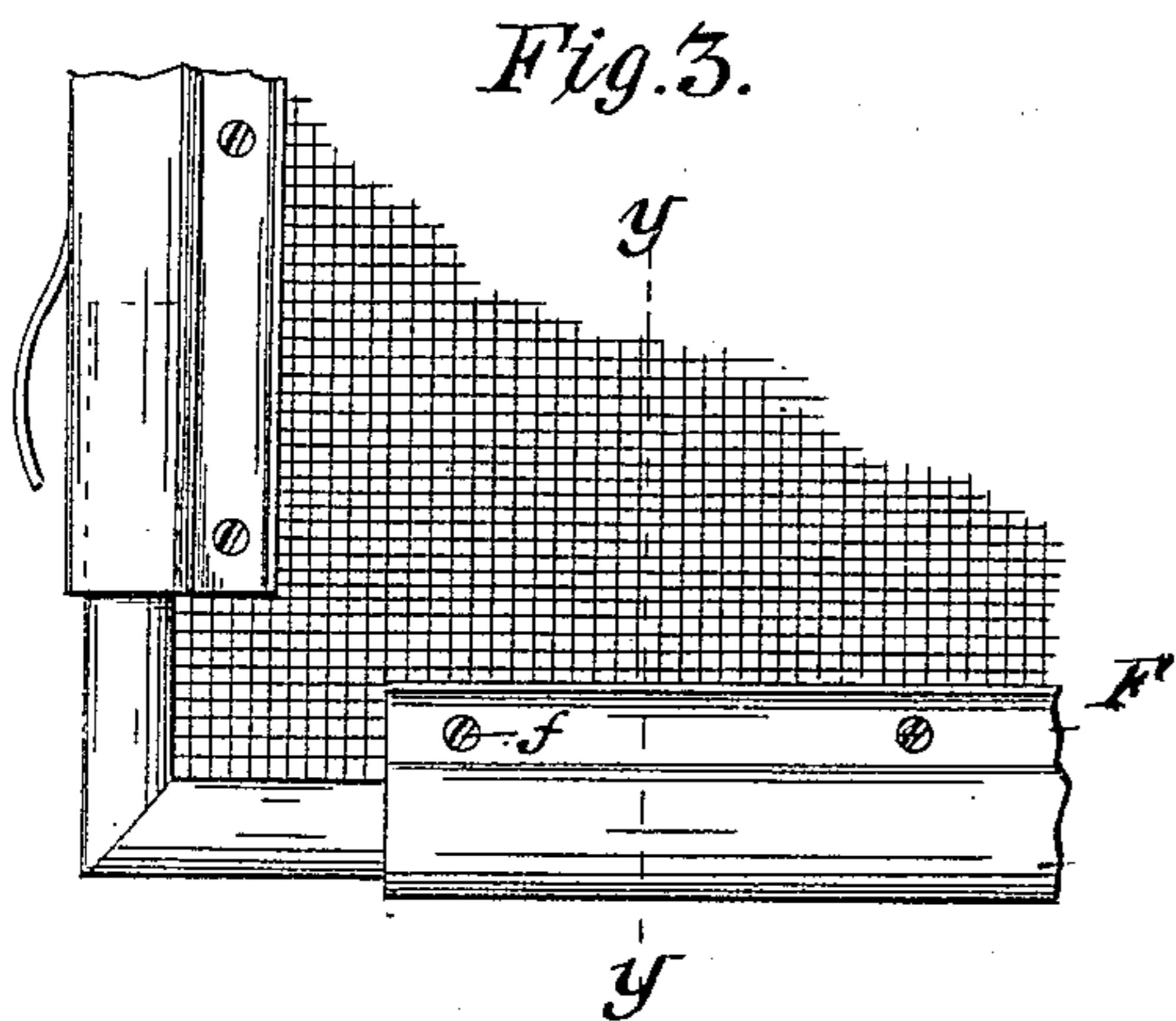
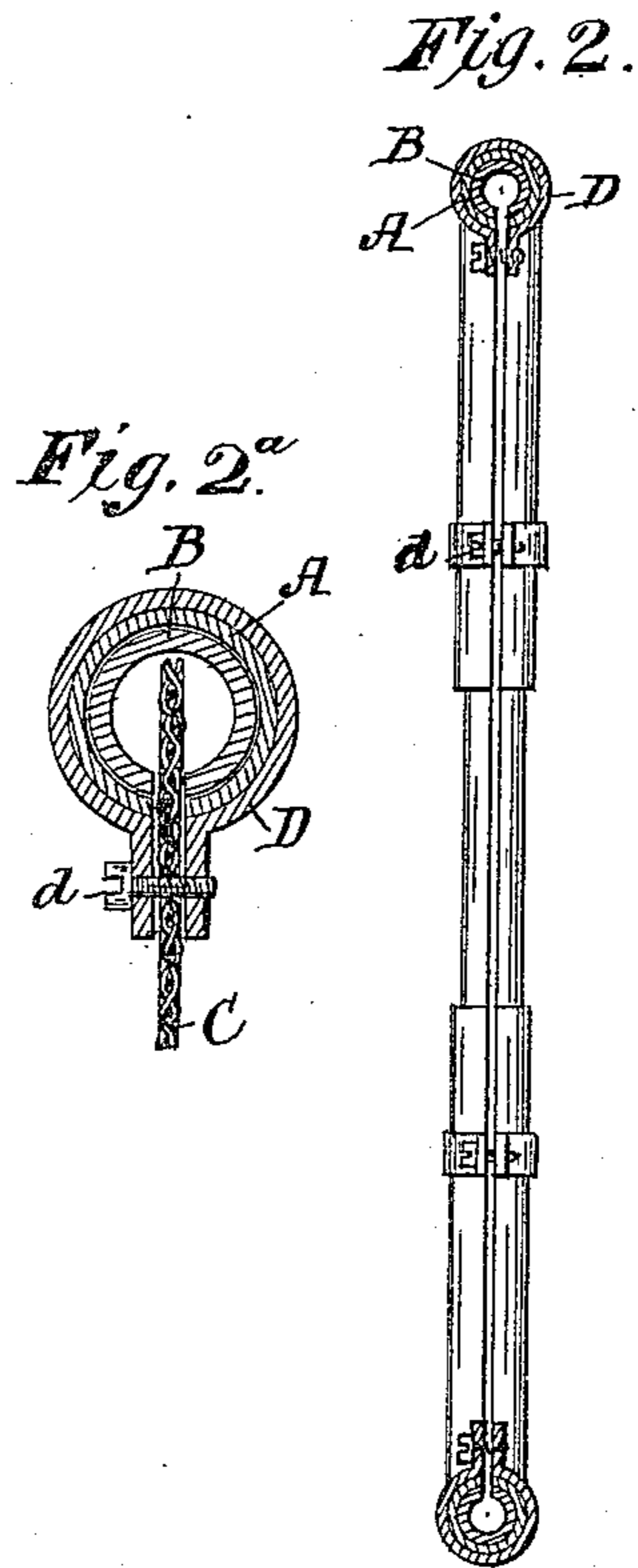
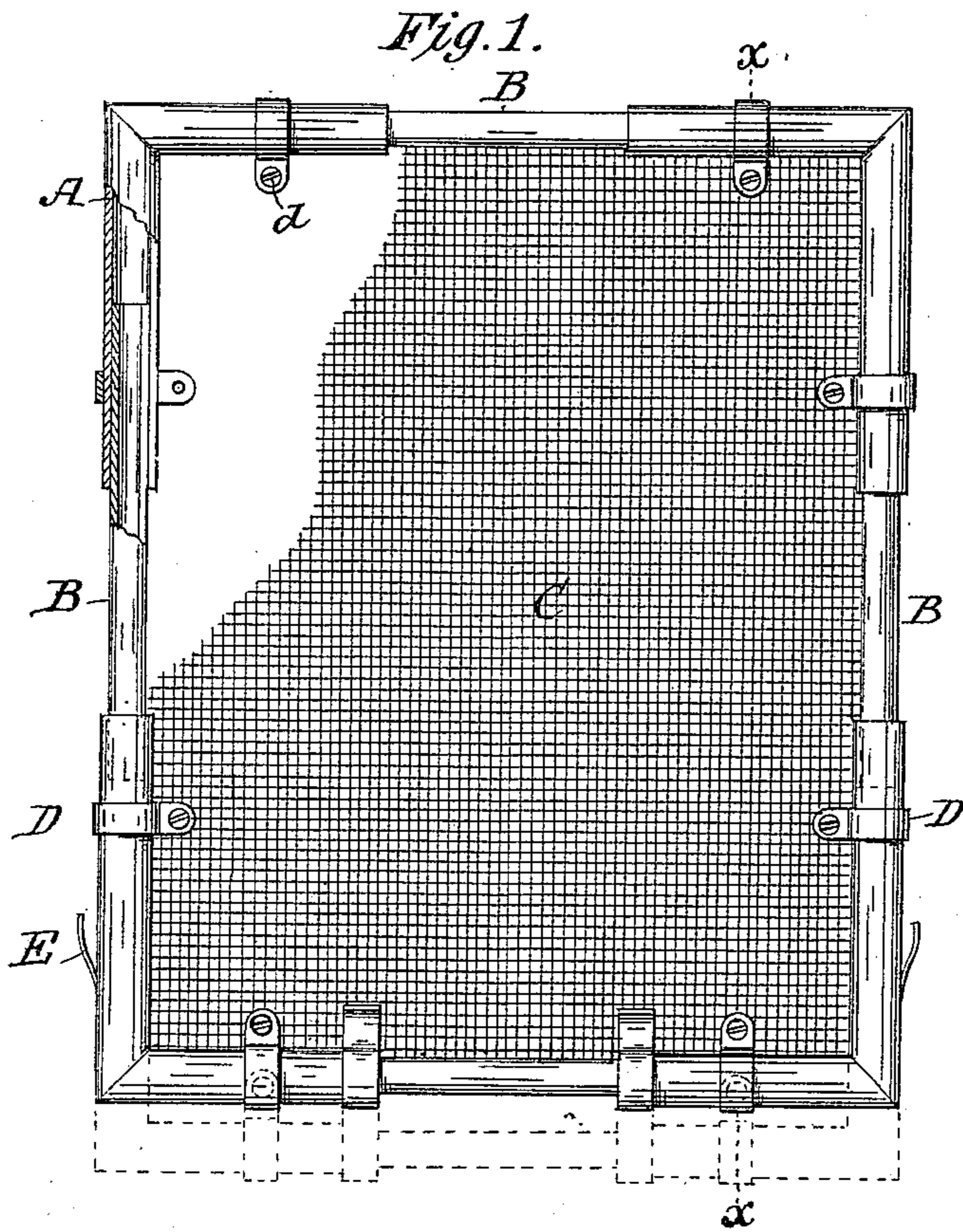


(No Model.)

J. T. HENDERSON.
ADJUSTABLE WINDOW SCREEN.

No. 438,544.

Patented Oct. 14, 1890.



Witnesses
Saml R. Turner.
Van Buren Hillyard.

Inventor
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By his Attorney

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UNITED STATES PATENT OFFICE.

JOHN T. HENDERSON, OF COUNCIL BLUFFS, IOWA, ASSIGNOR OF ONE-HALF
TO W. W. CHAPMAN, OF SAME PLACE.

ADJUSTABLE WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 438,544, dated October 14, 1890.

Application filed May 13, 1890. Serial No. 351,606. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. HENDERSON, a citizen of the United States, residing at Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented certain new and useful Improvements in Adjustable Window-Screens; 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.

This invention relates to window-screens, and has for its object to provide a screen which will be constructed entirely of metal, and which will be adjustable in all its parts.

The improvement consists, essentially, of the novel construction, which admits of the screen being adjusted to different size windows, the same clamping devices which bind the separate ends of the tube on the netting or screen fabric also serving to hold the adjustable parts in their located position.

The improvement also consists in the peculiar construction and combination of the parts, which will be hereinafter more fully described and claimed, and which will be shown in the accompanying drawings, in which—

Figure 1 is a front view, parts being broken away, of a screen embodying my invention, showing the adjustment of the same on dotted lines. Fig. 2 is a cross-section on the line X X of Fig. 1. Fig. 2^a is an enlarged detail cross-section of one side of the frame on the line x x of Fig. 1. Fig. 3 is a front view of one corner of a modified form of screen. Fig. 4 is a cross-section on the line Y Y of Fig. 3.

The frame is composed of the corner-pieces A and the intermediate sections B, which are interposed between the ends of the corner-pieces and telescoped therewith. The corner-pieces and the intermediate sections have coincident slots on their inner sides, which are adapted to receive the netting C.

In constructing the screen the frame is adjusted to the required dimensions and the netting is cut the proper size to have its edge inserted in the slots in the inner sides of the frame. The clamps D bind the separated ends of the tubing on the netting and also bind the

corner-pieces and the intermediate sections together. These clamps are provided in sufficient number and are located at proper points of the frame, so as to effect a clamping of the same on the netting at all points. These clamps embrace the tubing, and the ends thereof are held together by the binding-screws *d*, which pass through the said ends and the netting, as most clearly shown in Fig. 2. To hold the screen in its casement and prevent rattling of the same, the spring-tongs E are provided. These tongs are wedged or pressed from the tubing.

In Figs. 1 and 2 the intermediate sections B are shown sliding within the corner-pieces. Obviously the intermediate pieces may be arranged to slide over the corner-pieces, as shown in Figs. 3 and 4. These figures also show a construction which obviates the use of separate clamps and forms a means for guiding the edges of the netting between the separated ends of the tubing. These results are effected by providing flanges which are projected in the same direction from the separated ends of the tubing. The outer edges of the flanges flare in opposite directions, thereby forming a guide to direct the edges of the netting between the separated ends of the tubing. Binding-screws *f* pass through these flanges F and bind them on the edges of the netting.

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

1. A screen-frame composed of corner-pieces and intermediate telescoping tubular sections, the corner-pieces and said intermediate sections having coincident slots on their inner sides, and clamping mechanism for holding the corner-pieces and the intermediate sections in their located position and pressing their separated ends upon the screen fabric when inserted in the said slots.

2. The combination, with the tubular metal corner-pieces and intermediate tubular sections, the corner-pieces and the said intermediate tubular sections having coincident slots in their inner sides, and the intermediate sections having flanges extended from the separated edges, which flanges flare out-

wardly, of the netting having its edges inserted in the slots in the corner-pieces and in the said sections, and binding-screws passing through the said flanges to press the separated ends of the said sections on the said netting and bind the sections on the corner-pieces, substantially as set forth.

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

JOHN T. HENDERSON.

Witnesses:

E. J. STROW,

W. W. CHAPMAN.