

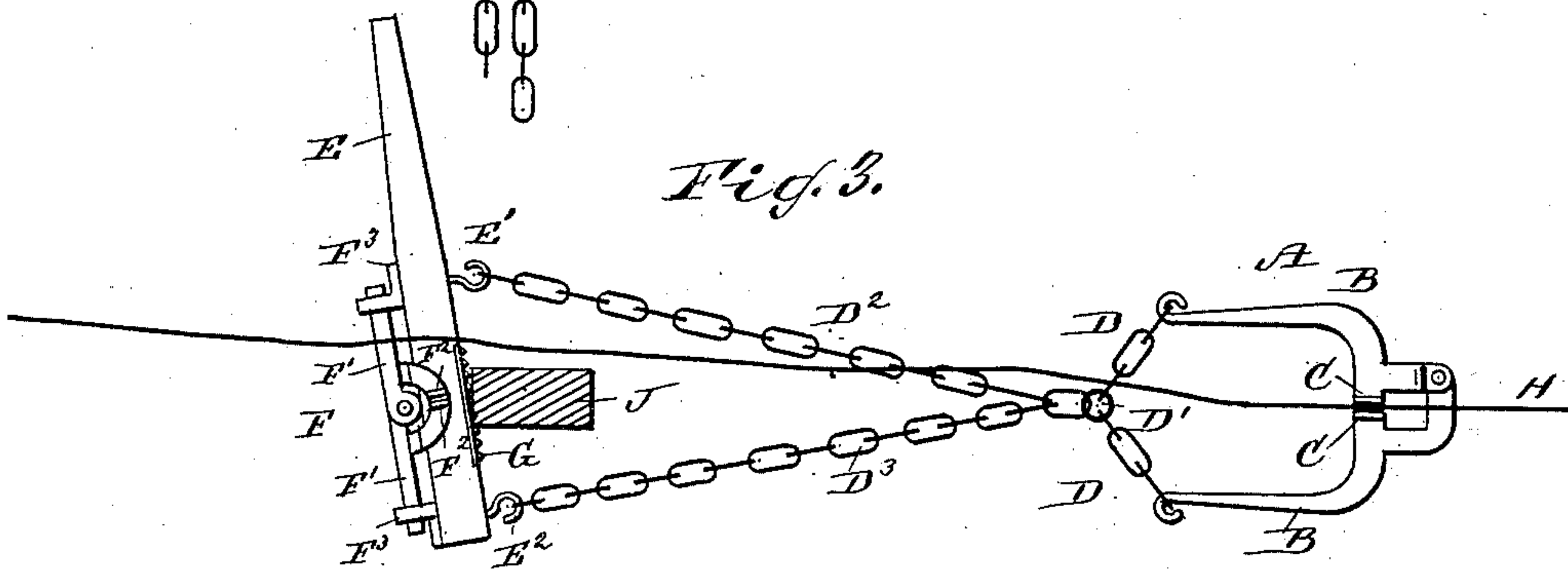
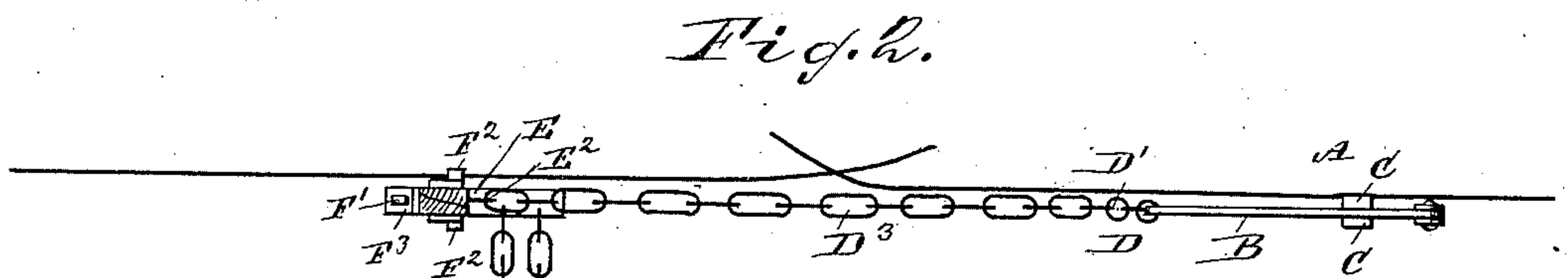
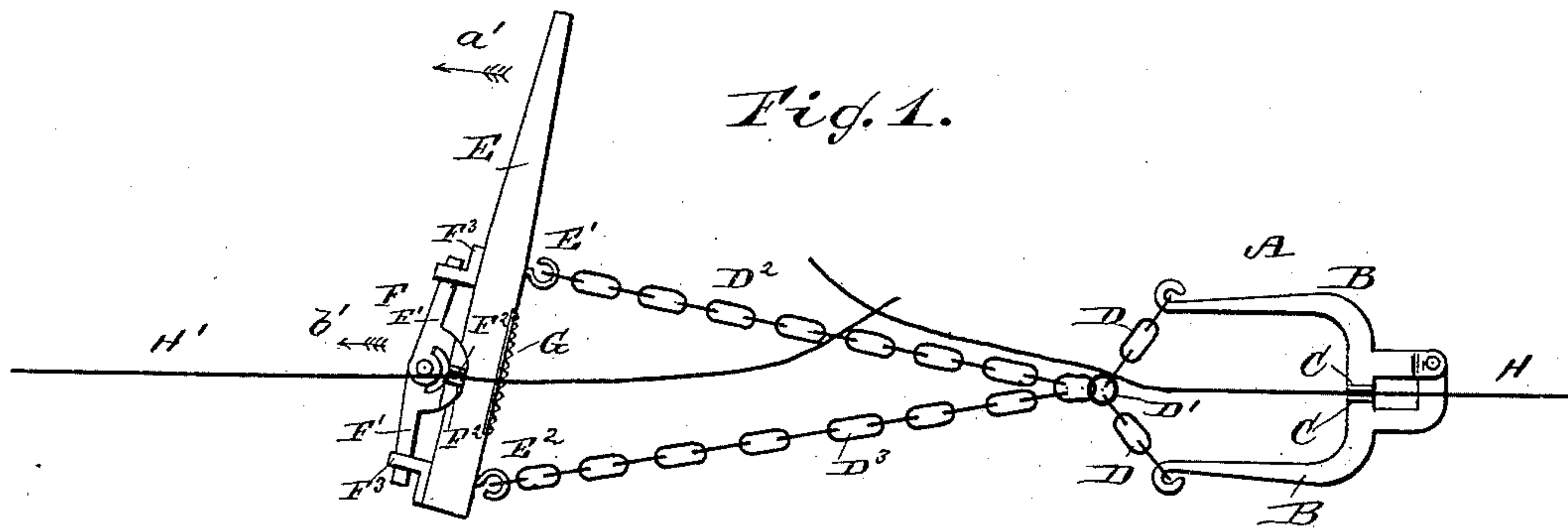
(No Model.)

G. H. BRACKMAN.

WIRE STRETCHER.

No. 333,821.

Patented Jan. 5, 1886.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE H. BRACKMAN, OF LAKE RUN, PENNSYLVANIA.

## WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 333,821, dated January 5, 1886.

Application filed April 21, 1885. Serial No. 162,933. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. BRACKMAN, of Lake Run, in the county of Sullivan and State of Pennsylvania, have invented a new and Improved Wire-Stretcher, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for stretching plain, barbed, or insulated wires, and for holding them taut while splicing the ends of the same.

The invention consists of the combinations of parts, including their construction, substantially as hereinafter fully set forth and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of my improved wire-stretcher, showing the device attached to two wires for stretching and holding the same while splicing. Fig. 2 is a front elevation of the same. Fig. 3 is a plan view showing my improved wire-stretcher attached to a post.

The clamp A consists of two hinged arms, B B, which are each provided with a plate, C, between which plates C the wire to be stretched is placed and clamped. To the inner ends of the arms B B the short chains D D are attached, which unite in a link, D', to which the chains D<sup>2</sup> and D<sup>3</sup> are linked. The lever E is provided on its inner edge with two open hooks, E' and E<sup>2</sup>, and with a clamp, F, on its outer edge. The clamp F consists of two arms, F' F'', pivoted in the center, and each provided with a clamping-plate, F<sup>2</sup>, similar to those of clamp A. The outer ends of the arms F slide freely in bearings F<sup>3</sup>, which are fastened to the outer edge of the lever E. A notched plate, G, is placed on the inner edge of lever E midway between the hooks E' and E<sup>2</sup>.

The operation of my device is as follows: On stretching two wires between posts, as illustrated in Figs. 1 and 2, one end of each is placed between the clamping-plates C and F<sup>2</sup>, respectively, and the chains D<sup>2</sup> and D<sup>3</sup> are linked to hooks E' and E<sup>2</sup>, thereby suspending the wire-stretcher between the two wires H and H'. The lever E is then moved in the direction of the arrow a', the wire H', between plates

F<sup>2</sup>, acting as a fulcrum, whereby the chain D<sup>2</sup> draws on short chains D D, and thereby clamps the wire H tight between clamping-plates C for the stretching. By this movement of lever E in the direction of arrow a' the clamp F is drawn outward in the direction of arrow b', thereby clamping the wire H' tightly between plates F<sup>2</sup>. At the same time that the chain D<sup>2</sup> is drawn tight the chain D<sup>3</sup> becomes free, and is unhooked, and its next link is placed in the hook E<sup>2</sup>. The movement of the lever E is then reversed, whereby the chain D<sup>3</sup> becomes the drawing-chain, and chain D<sup>2</sup> is set free and hooked up in the same manner as chain D<sup>3</sup>, as before described. This forward and backward movement of the lever E is continued, and the chains D<sup>2</sup> and D<sup>3</sup> alternately hooked up until the wires H H' are drawn sufficiently tight, and can then be spliced in any suitable manner.

In stretching but one wire the use of clamp F is dispensed with, and the lever E, with the notched plate G, placed against an edge of the post J, and the wire to be stretched clamped between plates C of clamp A, and the chains D<sup>2</sup> and D<sup>3</sup> placed in hooks E' and E<sup>2</sup>, and the lever E moved forward and backward, the post J being the fulcrum, and the chains D<sup>2</sup> and D<sup>3</sup> hooked up in the same manner, as before described, whereby the wire is tightly stretched and can be fastened to post J.

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

1. In a wire-stretcher, the lever E, having the hooks E' and E<sup>2</sup> and the bearings F<sup>3</sup>, in combination with the clamp F, having the pivoted arms F' and the clamping-plates F<sup>2</sup>, substantially as shown and described.

2. In a wire-stretcher, the clamp A, having the pivoted arms B, provided with clamping-plates C, the short chains D, the link D', and the chains D<sup>2</sup> and D<sup>3</sup>, in combination with the lever E, having the hooks E' and E<sup>2</sup>, the bearings F<sup>3</sup>, and the clamp F, provided with pivoted arms F', and having the clamping-plates F<sup>2</sup>, substantially as shown and described.

GEORGE H. BRACKMAN.

Witnesses:

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