

(No Model.)

A. JACOBS.
HOOK AND EYE.

No. 549,317.

Patented Nov. 5, 1895.

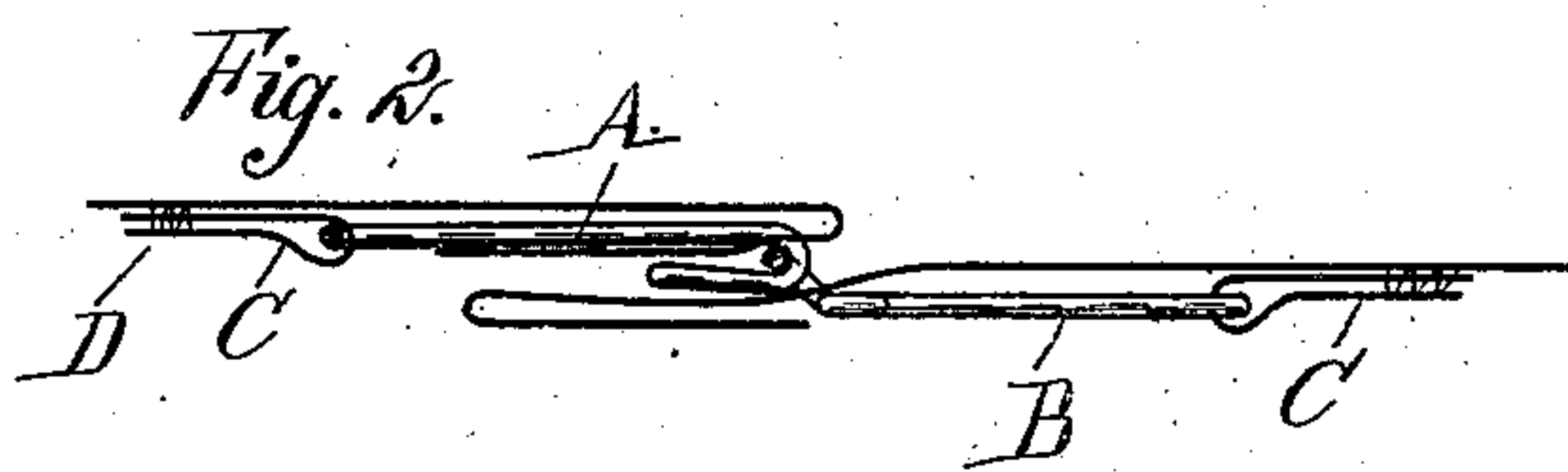
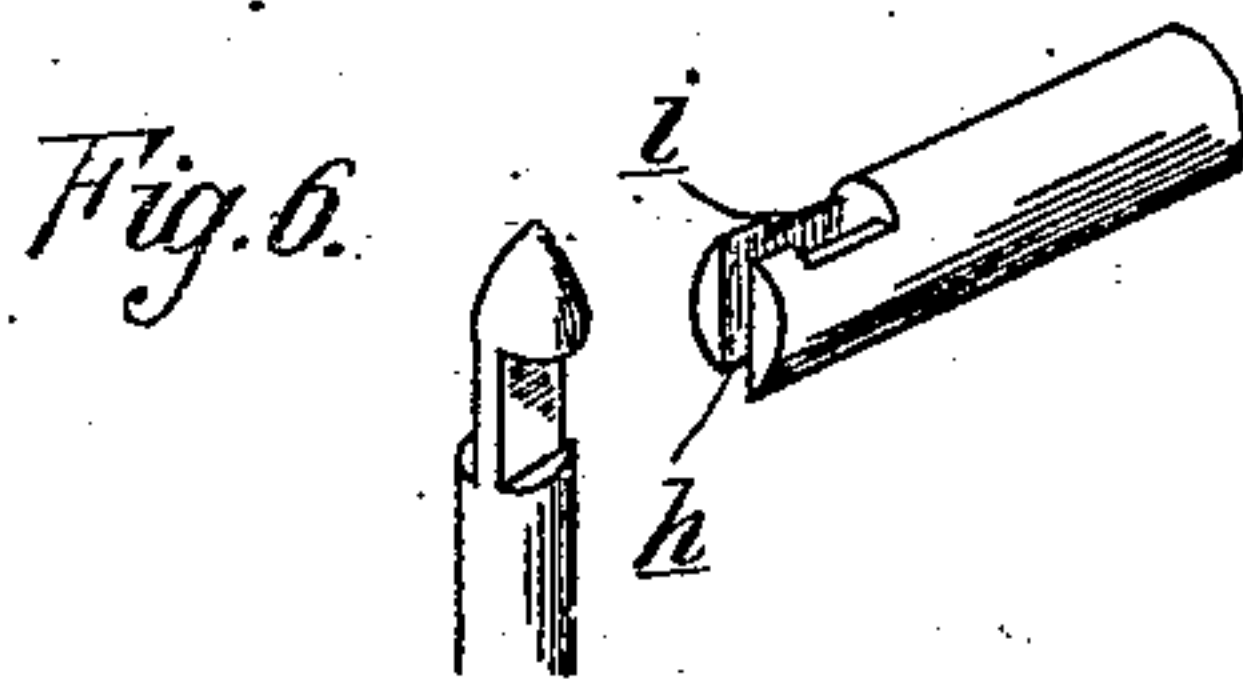
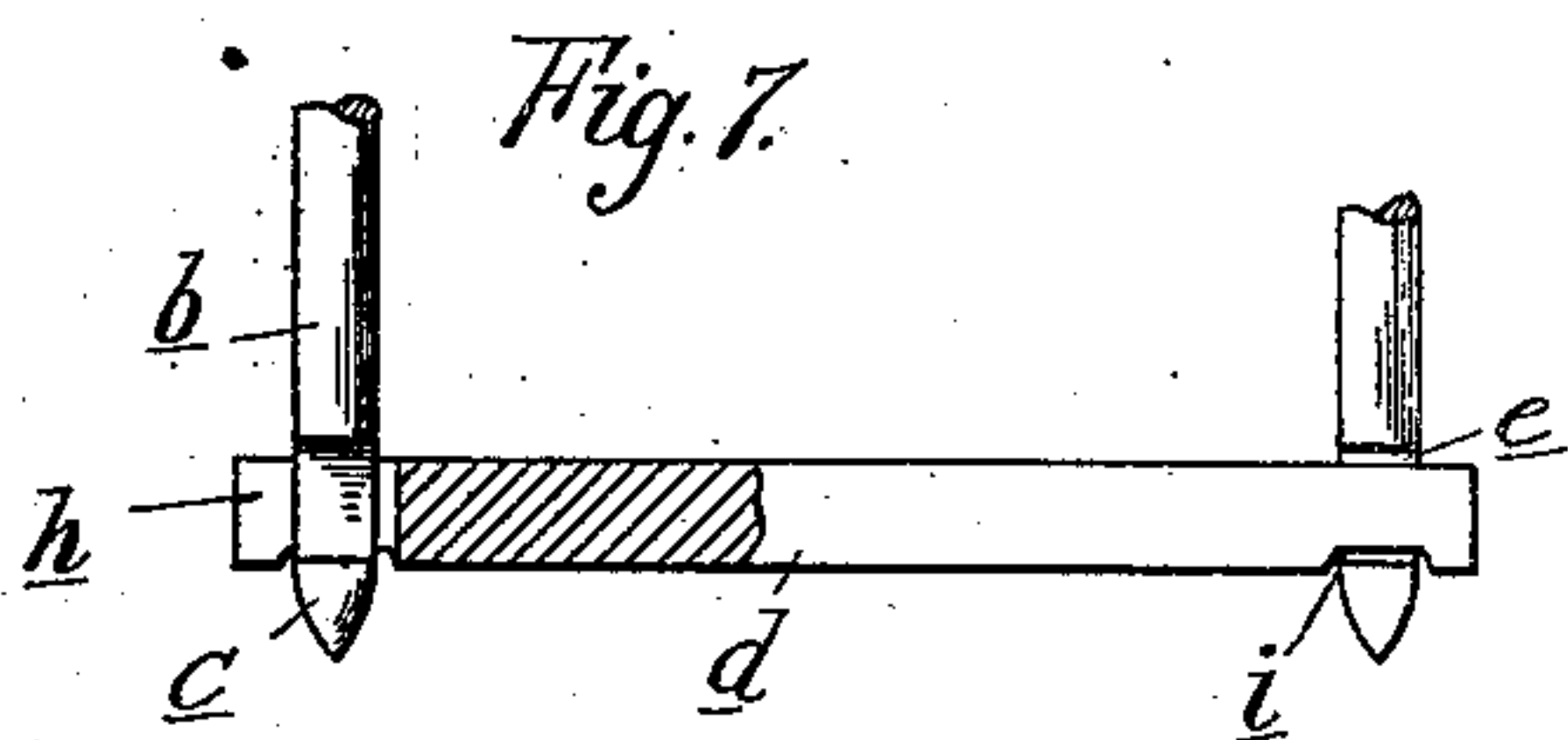
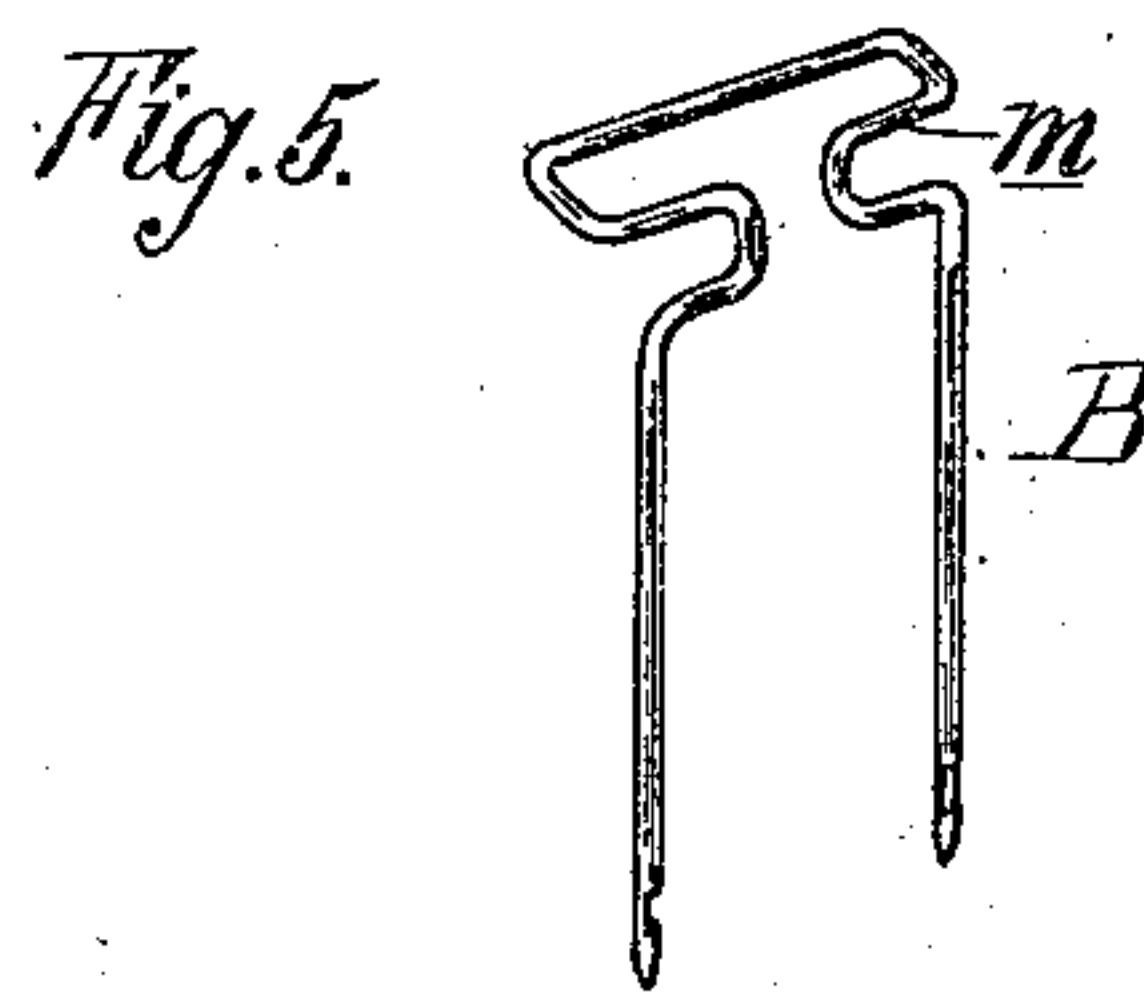
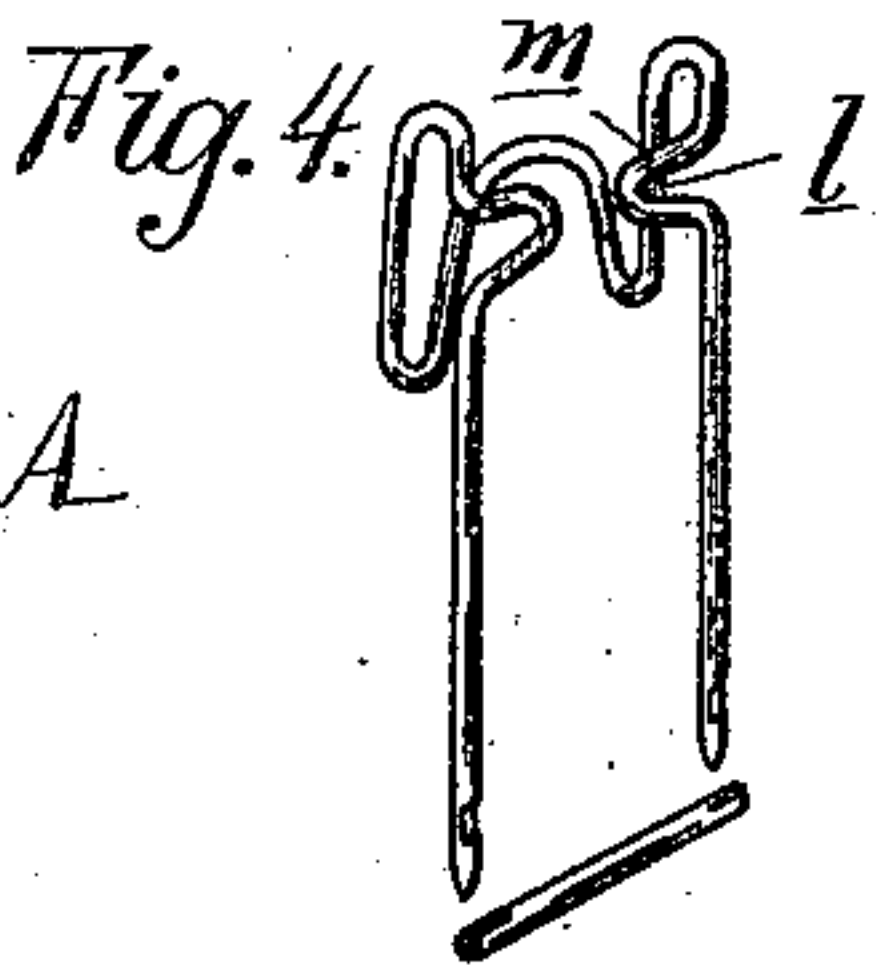
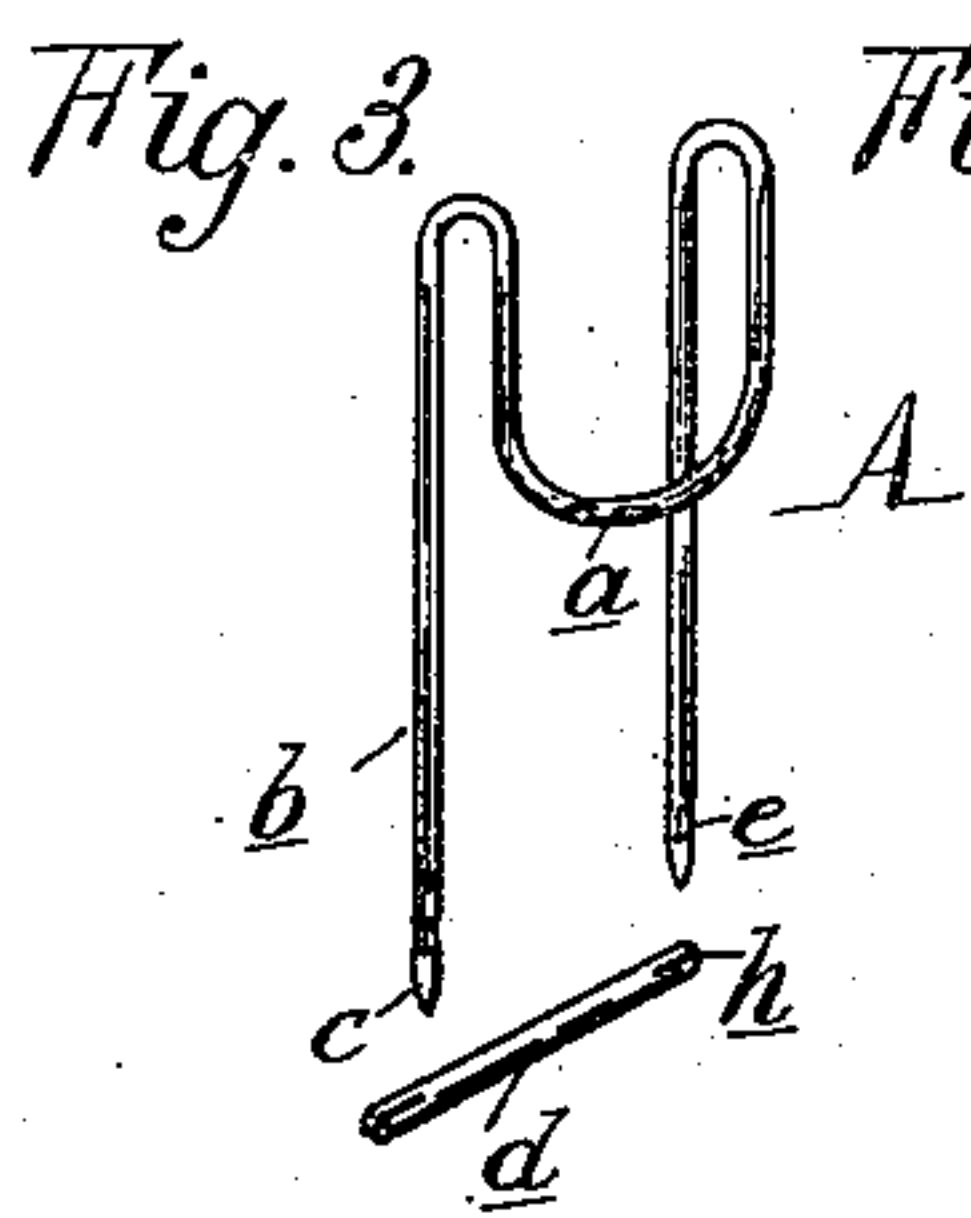


Fig. 1.

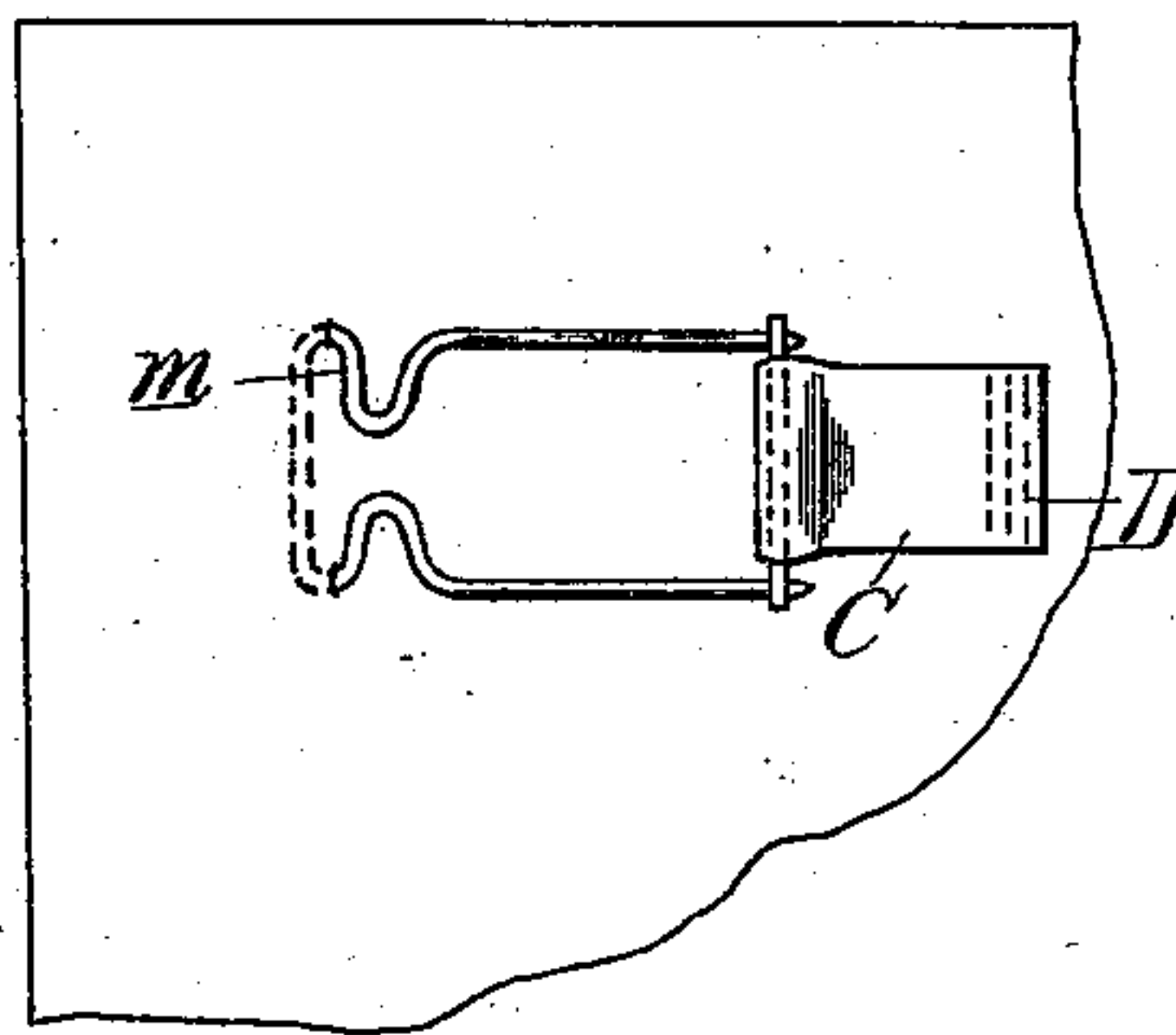
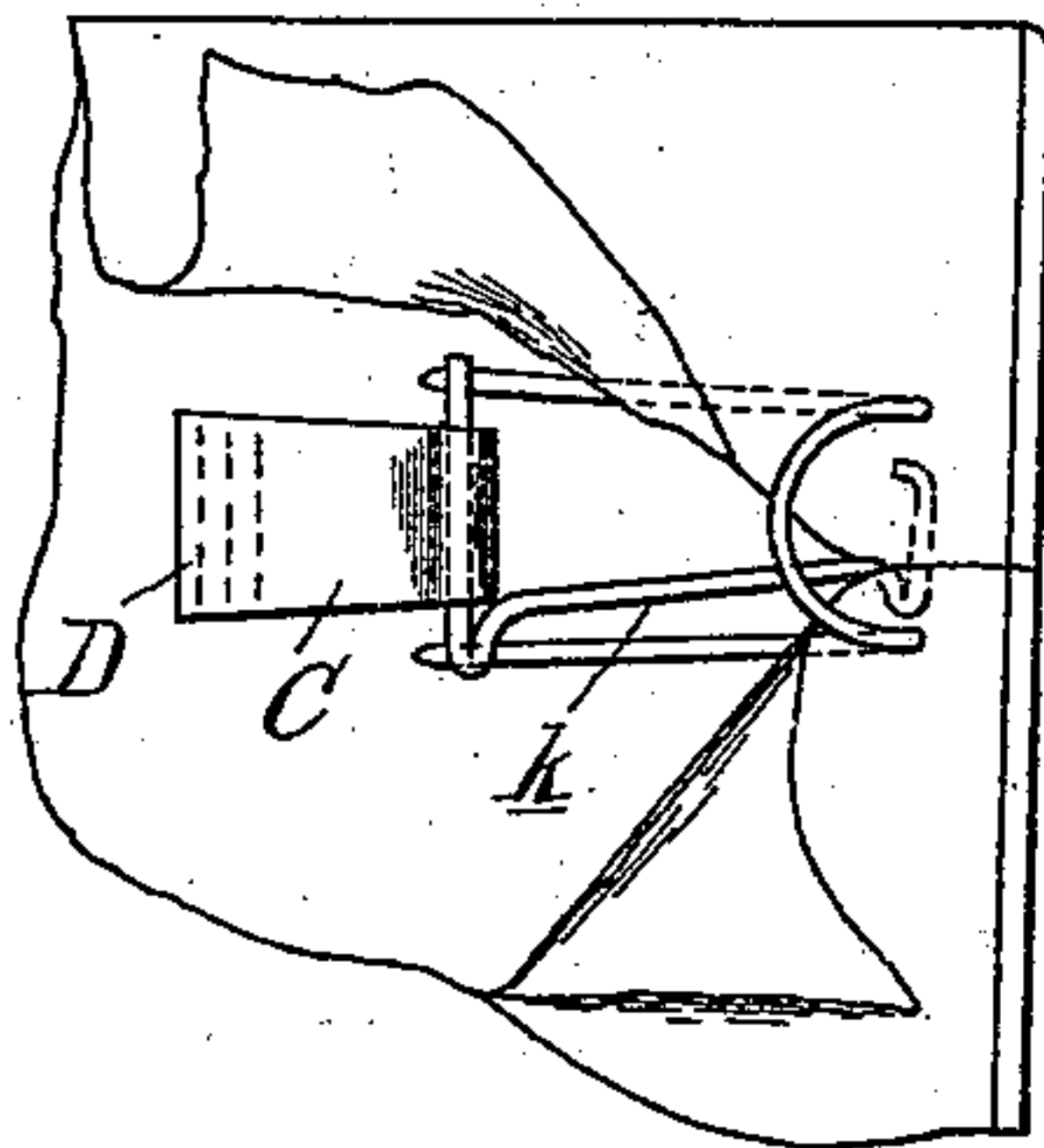
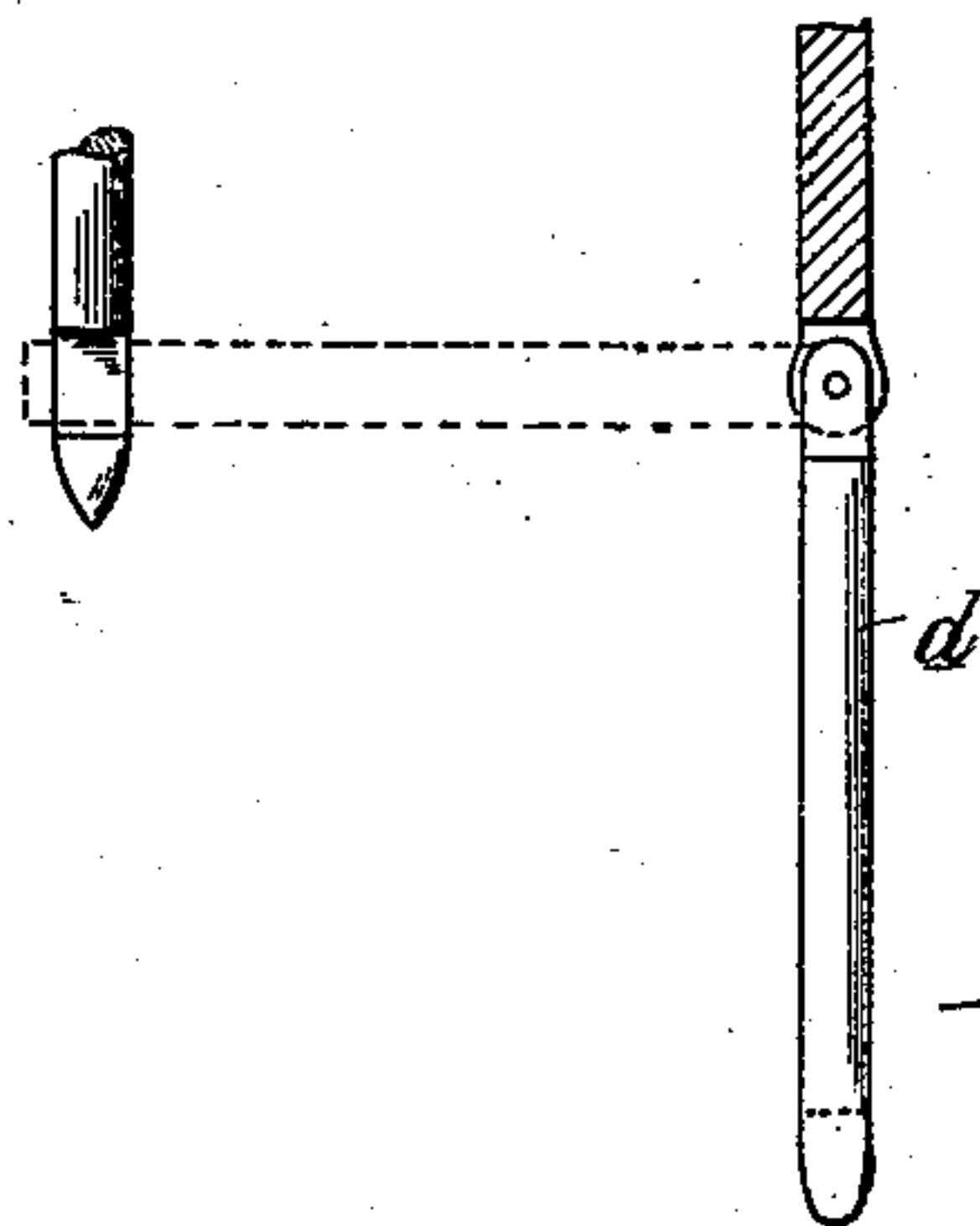


Fig. 8.



Witnesses:

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UNITED STATES PATENT OFFICE.

ABRAHAM JACOBS, OF DETROIT, MICHIGAN.

HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 549,317, dated November 5, 1895.

Application filed March 11, 1895. Serial No. 541,256. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM JACOBS, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Hooks and Eyes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention consists in the construction of a hook and eye, and particularly in the construction of the means for securing the hook or the eye member to a garment.

15 The invention in detail consists in the construction of a securing-frame having a cross-bar, the frame being so constructed that it may be opened, as by turning or removing the cross-bar, to enable the cross-bar to be engaged in a loop of cloth secured to the garment.

20 The invention further consists in the construction, arrangement, and combination of the various parts, all as more fully hereinafter described.

25 In the drawings, Figure 1 is an elevation of a hook and eye secured upon the meeting edges of a garment, the two members illustrating slightly-modified constructions. Fig. 2 is a diagram section through a garment, showing my hook and eye attached and connected as in use. Figs. 3 and 4 are perspective views of hooks embodying my invention. Fig. 5 is a perspective view of an eye. Fig. 6 is a perspective view illustrating the construction of the joint between the cross-bar and one of the sides of the securing-frame of the hook or eye. Fig. 7 is a sectional elevation of the cross-bar and the ends of the sides of the securing-frame. Fig. 8 is a similar section showing a slightly-modified form of cross-bar.

35 In the prior state of the art such hooks and eyes have been made with a hook at one end and a securing frame or loops at the other end. These securing frames or loop have been so constructed as to require that the hook and eye be sewed on by hand, as sewing-machines could not sew over the metallic bars.

40 My invention enables the operator making pants, cloaks, and other garments to use the sewing-machine in attaching the hooks,

which are attached to a cloth or other textile loop easily sewed to the garment.

A is a hook, Fig. 3. B is an eye therefor, 55 Fig. 5.

As the only part of my invention relates to the securing means, I will describe the hook member, which description will apply equally as well to the eye member, except to the eye 60 portion thereof.

The hook I preferably form from a single piece of wire bent into the hook portion *a*, the ends being bent under the hook into the parallel legs or side bars *b*, forming the sides 65 of what I call the "securing-frame." The ends *c* of these side bars are pointed, as shown, and near the ends they are connected by the cross-bar *d*. These sides and cross-bar are so constructed that the securing-frame formed thereby may be opened to engage the cross-bar with a flexible loop *C*, 70 sewed by the seams *D* to the garment, not far from the edge. I have shown various ways of effecting this opening of the frame, 75 and other ways may be devised to come within the spirit of my invention.

In Figs. 3, 4, 5, 6, and 7 I have shown the legs or sides provided with notched bearings *e* and the ends of the cross-bar provided with 80 the bifurcations *h* and notches *i* on the outer face to engage with and be locked upon the sides, as plainly shown in Fig. 7. The cross-bar in this construction is slightly longer than the normal distance between the two 85 legs of the frame, so that when the parts are engaged together, as shown in Fig. 7, the spring action of the legs of the frame will hold them from accidental displacement.

In applying this device in the manufacture 90 of pants and other garments the operator forces the pointed ends of the sides of the frame through the cloth at the point where a hook is to be located and then engages the cross-bar with the notched bar, the bar passing through the loops *C*, which are sewed, as described, to the garment in proper relation to hold the hook (or eye) in the desired position. When this is thus secured in position, it is evident that the garment may be finished up, and thus the hook or the eye be secured in position without any hand-sewing, as usually required. 100

I deem it desirable to prevent the cloth

from being forced up to expose the sides of the securing-frame. This may be done in any desired manner. In case the straight sides are used, as shown in Fig. 3 and at the left hand in Fig. 1, I may form an arm *k* integral with the cross-bar, which will extend to the beginning of the hook and act as a stop for the cloth to prevent its being shoved up on the sides; but I prefer to form this shoulder or stop integral with the sides by making inward bends or loops *l*, as shown in Figs. 4 and 5, the shoulder *m* thereof acting as the stop for the purpose described.

In Fig. 4 I have shown a hook of the construction designed to engage with a button.

In Fig. 8 I have shown the cross-bar *d* hinged to one end of one of the side bars. Other modifications may be used to effect the same purpose without departing from the spirit of my invention.

What I claim as my invention is—

1. A hook and eye member consisting of two legs, an engaging section, and an independently movable single-piece cross-bar interposed between the ends of the legs and locked thereto, to prevent the lateral inward or outward movement of the legs, substantially as described.

2. The combination with an attaching loop, of a hook and eye member comprising two yielding legs, an engaging section and a detachable single-piece rigid cross-bar passing through the loop and locked with the ends of the legs, substantially as described.

3. The combination of a hook or eye, a securing frame therefor comprising two legs extending therefrom, a cross bar at the ends of the legs detachably coupled thereto by having its ends interlocked with the ends of the legs, and loop-shaped bends forming shoulders in the legs near the hooks, substantially as described.

4. The combination of a hook or eye, a securing frame therefor comprising two spring legs extending therefrom, notched bearings at the end, a cross bar, having bifurcations at the end adapted to detachably engage the notched bearings on the legs, substantially as described.

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

ABRAHAM JACOBS.

Witnesses:

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