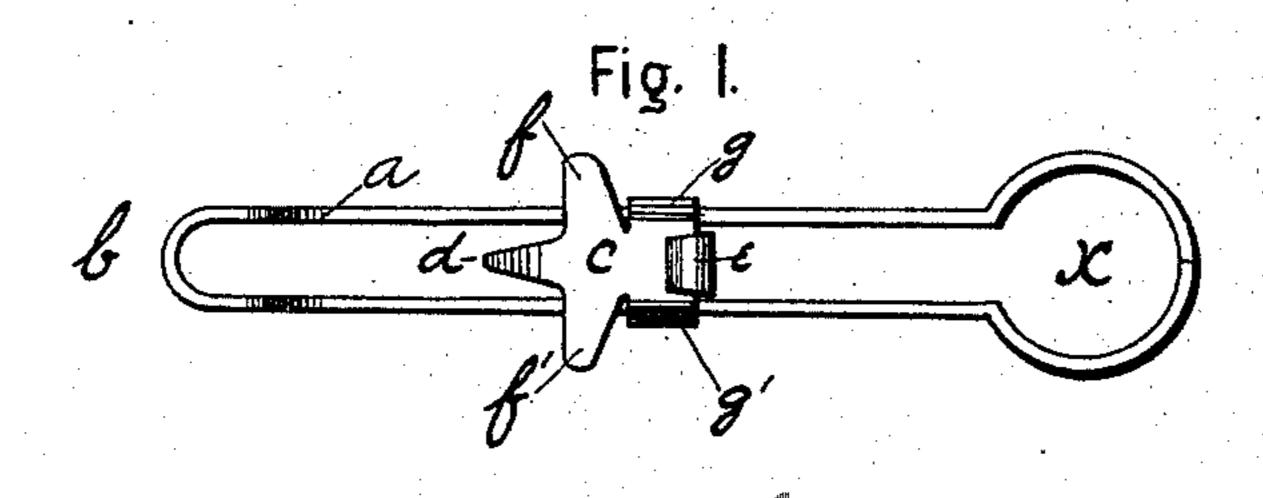
(No Model.)

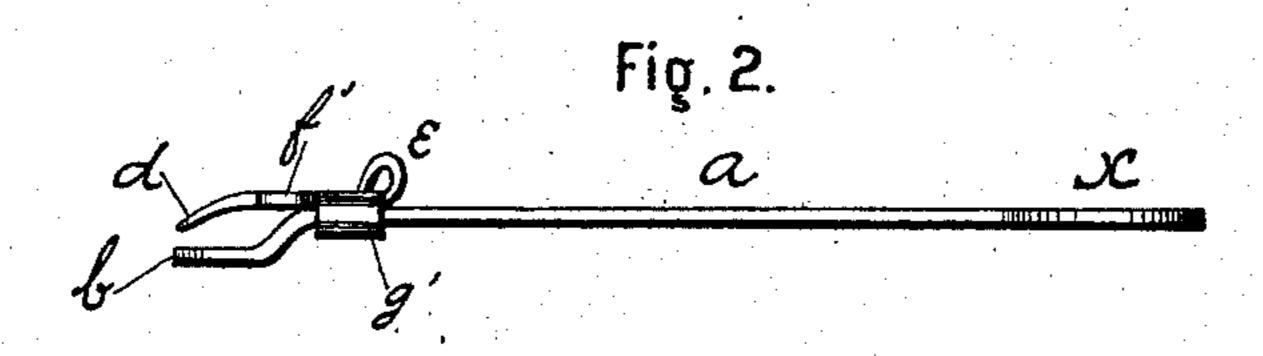
T. R. BETZEL.

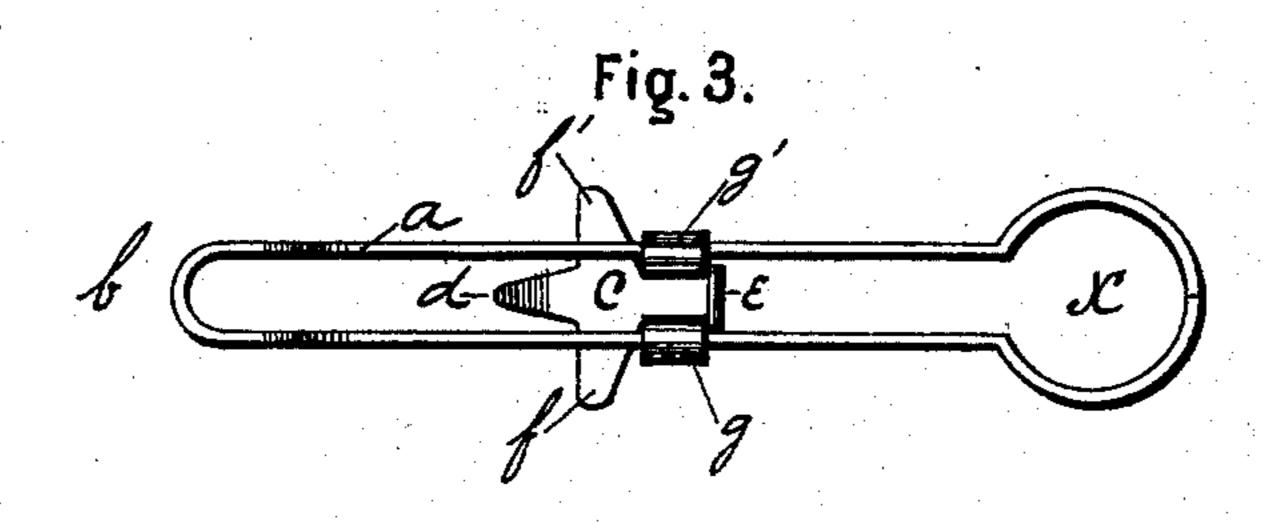
BUTTON HOOK.

No. 413,334.

Patented Oct. 22, 1889.







WITNESSES:

Charles Co. Abbott Carrie E. Davidson

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United States Patent Office.

THEODORE R. BETZEL, OF NEW YORK, N. Y.

BUTTON-HOOK.

SPECIFICATION forming part of Letters Patent No. 413,334, dated October 22, 1889.

Application filed February 16, 1889. Serial No. 300, 153. (No model.)

To all whom it may concern:

Be it known that I, THEODORE R. BETZEL, a citizen of the United States, residing in New York, in the county and State of New York, 5 have invented certain new and useful Improvements in Button-Hooks, of which the

following is a specification.

My invention relates to improvements in button-hooks in which a wire shaped into a ro loop operates in conjunction with a piece of metal or wire so arranged as to slide to and fro on the shank of the hook formed by the wire; and the objects of my improvements are, first, to relieve the button-hole of some 15 of the strain brought to bear upon its end when an ordinary button-hook is used; second, to afford facilities to bring the buttonhole into closer proximity to the corresponding button, and, third, to get full control of 20 the button before the button-hook is made to describe the customary circle, by means of which the button is forced into the buttonhole, all of which tends to preserve the shape of the button-hole and prevents tearing of 25 material around the button and button-hole.

The invention is especially adapted to gloves.

I attain these objects in the following manner, reference being had to the accompany-30 ing drawings.

Figure 1 is a top view of the button-hook complete. Fig. 2 is a side view, and Fig. 3 a

bottom view.

Similar letters refer to similar parts.

A piece of wire is bent into a loop, the end of the loop forming the hook b. The sides form the shank a to the hook, and the other end is closed in the form of a ring x. The hook b is deflected downward, Fig. 2, suffi-40 ciently to allow the top of any button that may be hooked to remain beneath the tongue d of slide c, as shown in Fig. 2, (the slide c having been moved forward on shank a to hook b.) The slide c consists of a piece of metal 45 or wire bent into such a shape that it will slide to and fro on the shank a. On the end of the slide c which points to the end x of the shank a a piece of the material of which the slide is made, e, Figs. 1 and 2, is curved

up so as to afford a purchase when it is de- 50 sired to move the slide to and fro on the shank a. On the other end of slide c, which points toward the hook b, there are two flanges ff'and a tongue d. The flanges f f' are set at right angles with the shank a and ride on 55 top of the shank a. The tongue d on the slide c projects out from the flanges ff' toward the hook b and runs parallel with the wires forming the shank a. The point of the tongue d is sufficiently deflected downward 60 to bring it below the top of the wires forming the shank a, so that when the buttonhook is inserted into a button-hole and the hook b (with the deflection of said hook downward) is placed over the corresponding 65 button and pressure is brought to bear onto the slide c from end x of the shank a toward the hook b, the tongue d on the slide c will enter the button-hole and project on the other side. The flanges ff' on the slide c, projecting 70 beyond the sides of the shank a at right angles, will catch the button-hole on the sides, and as the slide c moves toward the hook b the side on which the button-hole is of the article to be buttoned will be brought to- 75 gether in a direct line with the side on which the button is fastened, thus distributing the strain on the end of the button-hole toward the sides thereof, doing away with a great deal of the side strain to which button-holes 80 are subjected by the use of the button-hook at present in vogue, and bringing the buttonhole into close proximity to the corresponding button. On moving the slide c forward on the shank a toward the hook b the tongue d, 85 which projects through the button-hole, will ride onto the top of the button held by the deflected hook b, and place the button, as it were, into a clutch between the hook b and the tongue d.

The very frequent occurrence of the button catching in a fold on the side of the buttonhole and tearing the material when the ordinary button-hook is made to describe the customary circle is by the above device entirely 95 done away with, the tongue d making it impossible for the button to catch in a fold.

I claim as my invention—

1. In a button-hook, the combination of the shank a, having a hook or loop v, and the slide c, substantially as described.

2. In a button-hook, the combination of the 5 shank a, having the hook b deflected from the line of the shank, and the slide c, having the tongue d also deflected, as shown, and the flanges ff', substantially as and for the purpose set forth.

In testimony whereof I have hereunto sub- 10 scribed my name this 15th day of February, A. D. 1889.

THEODORE R. BETZEL.

 $\mathbf{Witnesses}:$

DANL. W. EDGECOMB, CAROLINE E. DAVIDSON.