

(No Model.)

M. J. MYERS.  
HOOK AND EYE.

No. 543,536.

Patented July 30, 1895.

FIG. 1.

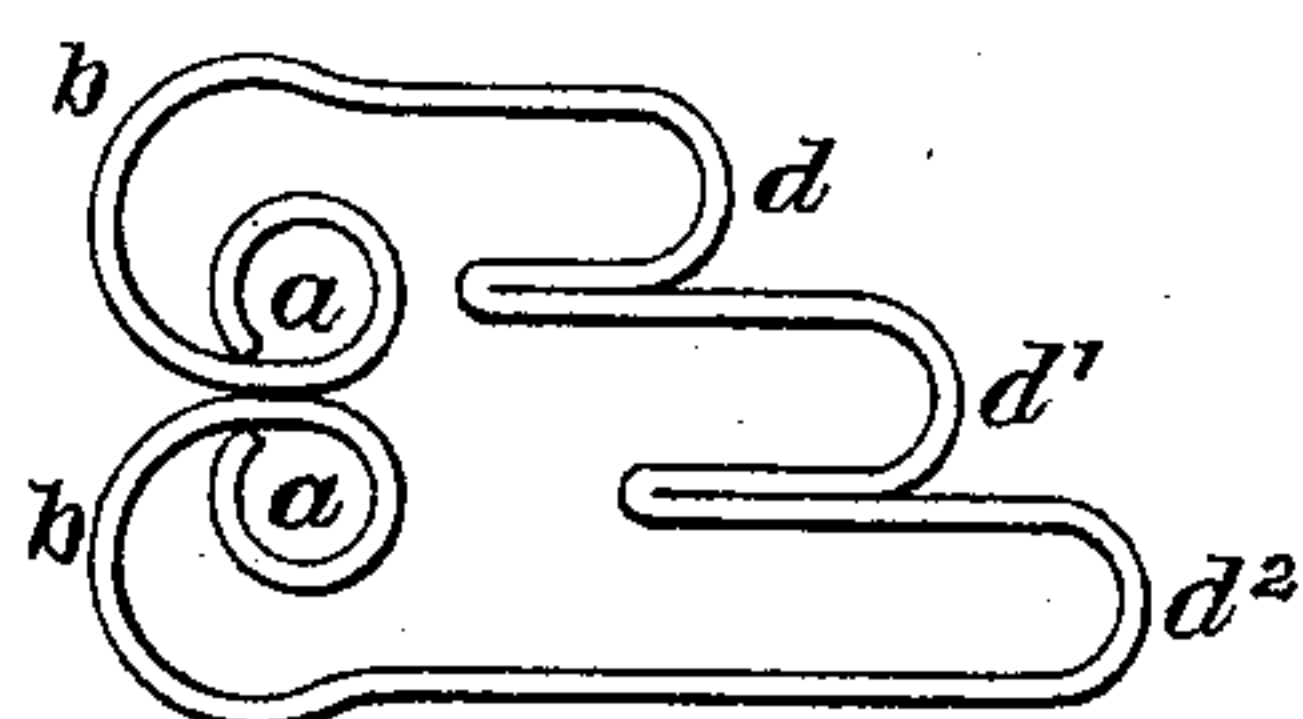


FIG. 2.

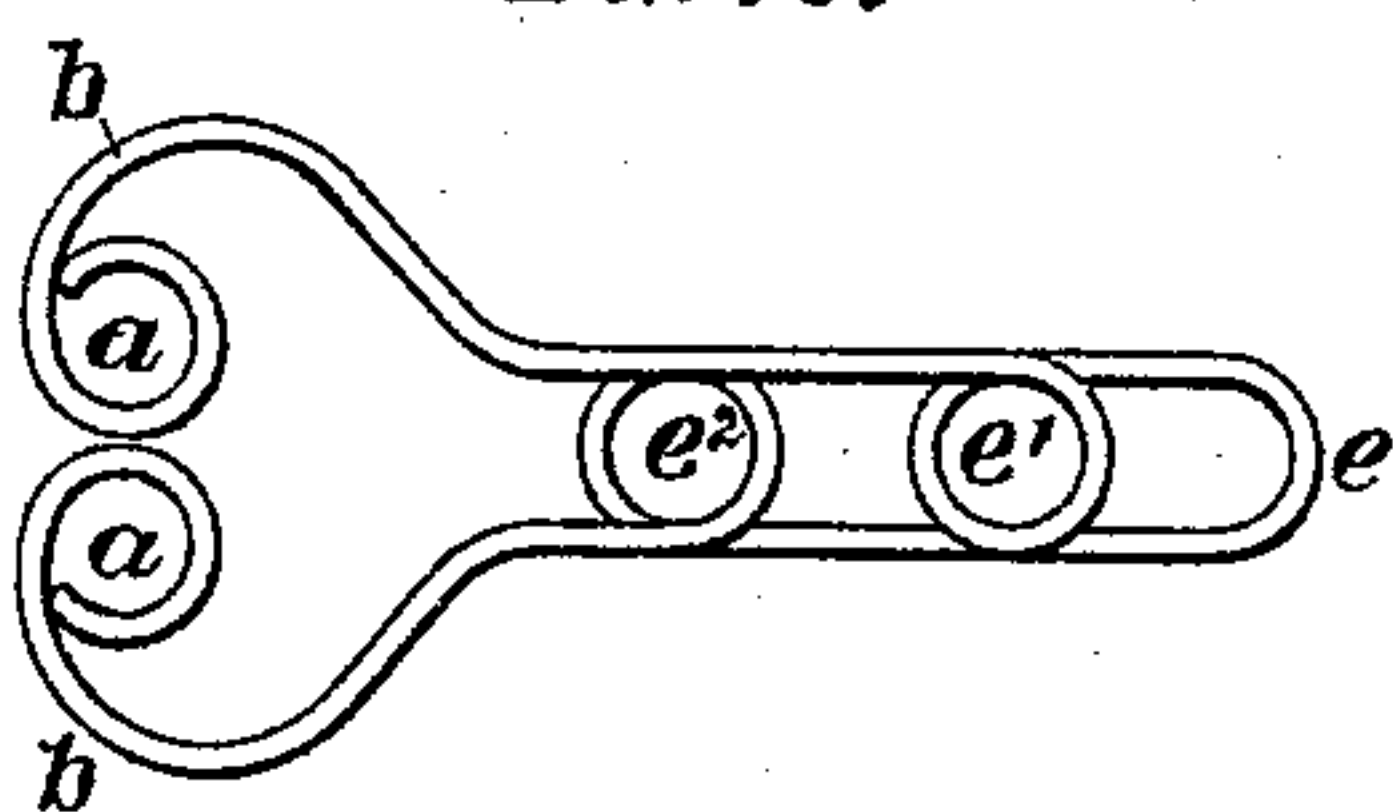
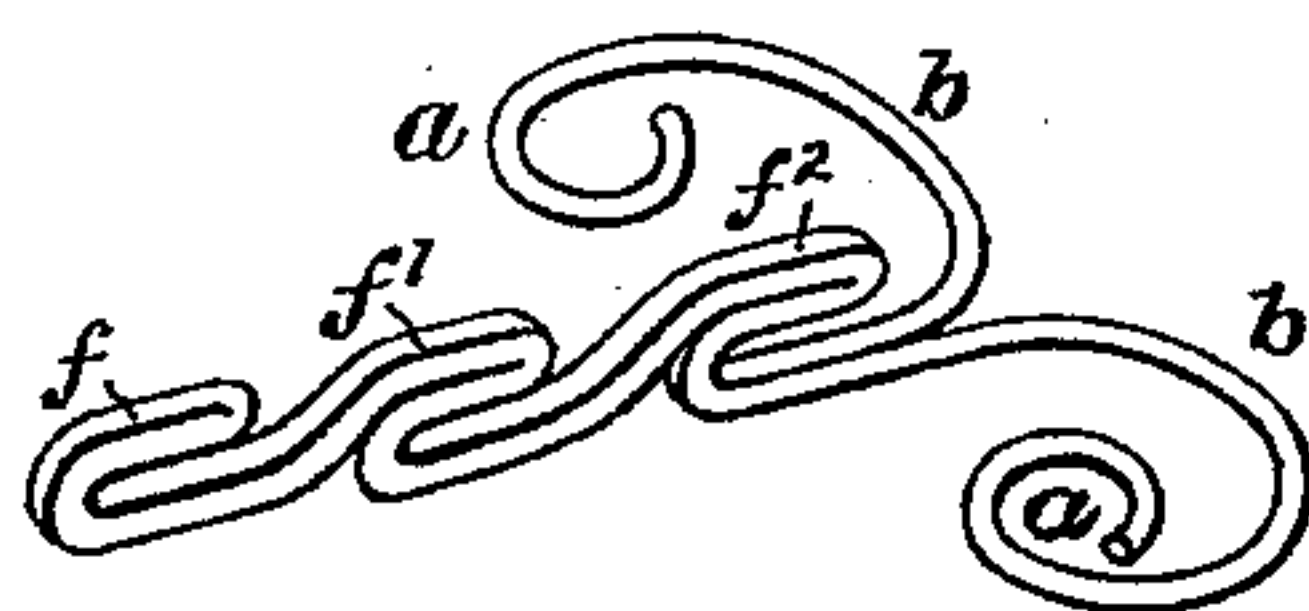


FIG. 3.



Witnesses:

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By his Attorneys

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# UNITED STATES PATENT OFFICE.

MARTIN J. MYERS, OF PHILADELPHIA, PENNSYLVANIA.

## HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 543,536, dated July 30, 1895.

Application filed June 28, 1894. Serial No. 515,947. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN J. MYERS, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Hooks and Eyes, of which the following is a specification.

The object of my invention is to so construct a hook and eye, or either of them, that they will constitute a yielding or adjustable fastening; and this object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 represents one form of eye constructed in accordance with my invention. Fig. 2 represents another form of eye embodying the invention, and Fig. 3 represents a hook made in accordance with the invention. All of these views are on an enlarged scale.

The main feature of my invention consists in constructing the hook or eye with a series of engaging portions at different distances from the attaching portions of said hook or eye, or with elastic portions which will permit the engaging portion of the hook or eye to yield in the direction of the length of said hook or eye, or both of these features may be combined in the same structure, the object being to permit of different adjustments of the parts—such, for instance, as the parts of an article of apparel fastened by means of the hook and eye—or to permit a yielding of said parts when they are subjected to undue strain, thus overcoming an objection to the ordinary hook and eye which will not permit of the slackening or tightening of the garment to suit the comfort of the wearer.

The eye shown in Fig. 1 consists of a piece of wire bent so as to form the attaching eyes  $a$  at the ends and adjacent to each eye  $a$  a spring-bend  $b$ , the retaining portion of the eye comprising three loops  $d$   $d'$   $d^2$  located side by side and graduated in length so as to provide three separate points of engagement for the hook, thus with an ordinary hook providing for three different adjustments of the connected parts, as well as for the yielding or elastic connection resulting from the use of the spring-bends  $b$ , which will permit the engaging portion of the eye to move in the

direction of the length of the eye when it is subjected to such a pull as will overcome the elasticity of said spring-bends.

In Fig. 2 I have shown a modified form of eye in which the wire is bent so as to form a shank with end loop  $e$  and two eyes  $e'$  and  $e^2$ , the loop or either eye being adapted for the reception of the hook.

The hook shown in Fig. 3 is a triple hook, having the three connecting portions  $f$   $f'$   $f^2$ , one in advance of the other, and having also the spring-bends  $b$  and attaching eyes  $a$ , similar to those of the structures shown in Figs. 1 and 2.

The use of a multiple hook in combination with a multiple eye correspondingly increases the range of adjustment possible.

Although I have shown my improved hook and eye as formed from bent wire, my invention is not limited to such method of manufacture, as it is manifest that either the hook or eye can be formed from sheet metal or other material by punching or otherwise, as desired. It will be observed that each of the spring-bends  $b$  is in the form of an open loop adjacent to and in the same plane as the attaching eye of the hook or eye. These spring-bends therefore present no projections to catch in the garment, and as they are simply open loops they are more resilient than the close coils forming the attaching eyes. Hence any strain upon the engaging portion of the hook or eye is absorbed by the yielding spring-bends and is not transmitted to the attaching portions of the hook or eye. Hence the fastenings are relieved from strain.

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

1. A hook or eye having an engaging portion, two attaching portions, and two spring bends in the form of open loops between the engaging and attaching portions, and in the same plane as the latter, said attaching portions being on the insides of the loops, substantially as specified.

2. A hook or eye having two attaching portions, and a series of engaging portions located at different distances from said attaching portions, so as to provide for slackening

or tightening of the parts secured thereby,  
and having between the base of the engag-  
ing portion and the attaching portions, spring  
bends in the form of open loops in the same  
5 plane as said attaching portions, the latter  
being on the insides of the loops, substan-  
tially as specified.

In testimony whereof I have signed my  
name to this specification in the presence of  
two subscribing witnesses.

MARTIN J. MYERS.

Witnesses:

CHAS. N. LARNER,  
R. L. DUTTON.