E. R. TILTON, JR.

HOOK AND EYE.

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Fig. 1

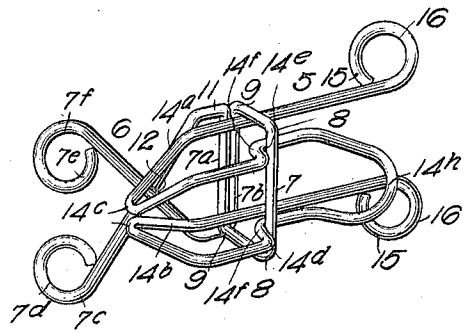


Fig. 3

Fig. 2

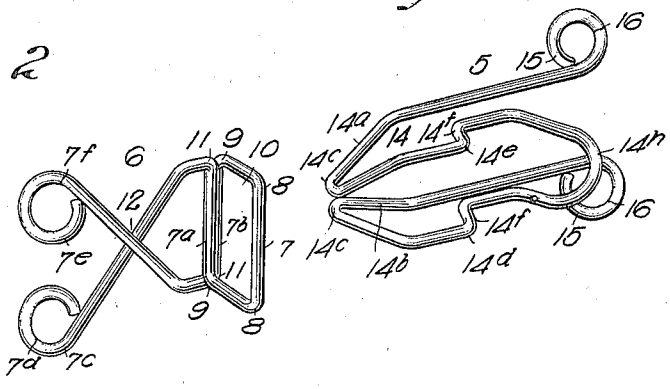
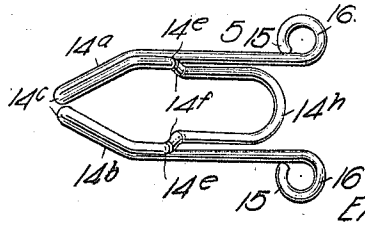


Fig. 4



WITNESSES

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HOOK AND EYE.

1,180,958. Specification of Letters Patent. Patented Apr. 25, 1916.

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To all whom it may concern:

Be it known that I, ERNEST R. TILTON, Jr., a citizen of the United States, and a resident of Fort Winfield Scott, in the county of San Francisco and State of California, have invented a new and Improved Hook and Eye, of which the following is a full, clear, and exact description.

My invention has for its object to provide a hook and eye which may be locked by pushing the hook within the eye and which will not unlock until the hook is depressed by a tongue which extends therefrom, the hook and eye being very simple in construction and without ends which might become entangled in the material to which the hook and eye are secured.

Additional objects of the invention will appear in the following specification, in which the preferred form of my invention is disclosed.

In the drawings similar reference characters denote similar parts in all the views, in which—

Figure 1 is a perspective view showing the hook and eye in locked position; Fig. 2 is a perspective view showing the eye; Fig. 3 is a perspective view showing the hook; and Fig. 4 is a plan view of the hook.

By referring to the drawings, it will be seen that the hook is shown at 5 and the eye is shown at 6, the wire 7 of which the eye 6 is constructed being bent substantially at right angles at 8 and again at 9 to form an opening 10. The parts 7^a and 7^b of the wire 7 lap each other from the angles 9, and are bent rearwardly at right angles to the opening 10 at 11, the parts of the wire beyond the positions 11 extending in the direction of each other so that they will cross at 12. The part 7^a of the wire has a terminal 7^c which is bent to form an eye 7^d, and the part 7^b of the wire 7 has a terminal 7^e which is bent to form an eye 7^f, the eyes 7^d and 7^f being provided so that the eye 6 may be secured to a garment on which it is to be used.

The hook 5 is constructed of a wire 14 which has two parts 14^a and 14^b, which are bent back on themselves at 14^c to form companion points. The parts 14^a and 14^b at one side of the points 14^c extend rearwardly and diverging to positions 14^d and 14^e, where the parts 14^a and 14^b of the wire are bent downwardly to form shoulders 14^f. The parts 14^a and 14^b of the wire extend rearwardly of the shoulders and upwardly, and are united by a loop 14^h which serves as a tongue for depressing the shoulders 14^f. At the other side of the points 14^c, the parts 14^a and 14^b of the wire 14 are extended rearwardly, the parts having terminals 15 which are bent to form eyes 16 by which the hook 5 may be secured to a portion of the garment.

In using the invention, the hook 5 at the points 14^c is introduced into the opening 10 in the eye 6, the hook 5 being pressed into the opening 10 until its shoulders 14^f pass the said opening, when the hook 5 at the said shoulders will engage the eye 6 at its opening 10, to lock the hook and eye, it being possible to press the shoulders 14^f to free the hook from the eye, by pressing down on the tongue 14^h.

It will be noticed that the parts 14^a and 14^b diverge at both sides of the points 14^c, so that while the points 14^c may readily enter the opening 10, the sides of the hook 5 will immediately thereafter engage the eye 6 at its opening 10 to assist in holding the hook 5 relatively to the eye 6, while the hook 5 is pressed into the opening 10 and until the shoulders 14^f engage the eye 6 at the said opening. The hook 5 and the eye 6 are constructed of resilient wire, which provides the desired resiliency.

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

1. In a hook and eye, a member having an opening, a wire member having two parts bent back on themselves, forming two companion points for entering the opening, the parts at one side of the points having shoulders for engaging the first member at the opening for locking the members and being continued beyond the shoulders and united by a loop to form a tongue by which the parts at the shoulders may be pressed down to free the members, and means to secure the members to a garment.

2. In a hook and eye, a resilient member having two parts bent back on themselves and forming two companion points for entering an opening, the parts at one side of the points having shoulders for engaging the member having the opening, for locking the resilient member to the said member with the opening, the parts of the resilient member being continued beyond the shoulders

and being united by a loop to form a tongue by which the parts at the shoulders may be pressed down to free the members.

3. In a hook and eye, a resilient member having two parts bent back on themselves and forming two companion points for entering an opening, the parts at one side of the points having shoulders for engaging the member having the opening, for locking the resilient member to the said member with the opening, the parts of the resilient member being continued beyond the shoulders and being united by a loop to form a tongue by which the parts at the shoulders may be pressed down to free the members, the resilient member at the other side of the points being continued and being bent to provide eyes by which the resilient member may be secured to a garment.

4. In a hook and eye, a member having an opening, a wire member having two parts bent back on themselves forming two companion points for entering the opening, the parts at one side of the points diverging for a distance to positions where the parts are bent down to form shoulders for engaging the first member at its opening, the parts beyond the shoulders being raised and being united by a loop to form a tongue by which the parts at the shoulders may be pressed down to free the members, and means to secure the members to a garment.

5. In a hook and eye, a member having an opening, a wire member having two parts bent back on themselves forming two companion points for entering the opening, the parts at one side of the points diverging for a distance to positions where the parts are bent down to form shoulders for engaging the first member at its opening, the parts beyond the shoulders being raised and being united by a loop to form a tongue by which the parts at the shoulders may be pressed down to free the members, the parts at the other side of the points being continued with their terminals bent to form eyes by which the wire member may be secured to a garment.

6. In an article of the class described, a wire bent to form an eye, with the parts of the wire lapping each other and then extending in a plane at right angles to the eye and crossing each other, with the terminals of the wire beyond the crossing bent to form eyes by which the wire may be secured to a garment.

7. In a hook and eye, a wire bent to form an eye, with the parts of the wire lapping each other and then extending in a plane at right angles to the eye and crossing each other, with the terminals of the wire beyond the crossing bent to form eyes by which the wire may be secured to a garment, a second wire member having two parts bent back on themselves, forming two companion points for entering the eye in the first member, the parts at one side of the points having shoulders for engaging the first member at its eye for locking the two members, and being continued beyond the shoulders and united by a loop to form a tongue by which the parts at the shoulders may be pressed down to free the members, the parts at the other side of the points of the second member being continued with their terminals bent to form eyes by which the second member may be secured to a garment.

8. In a hook and eye, a member having an opening, a wire member having two parts bent back on themselves, forming two companion points for entering the opening, the parts at one side of the points having shoulders for engaging the first member at the opening for locking the members, the wire member parts at the said side of the points being disposed side by side and the parts of the wire member at the other side of the points being also disposed side by side and in the rear of the parts at the first mentioned side of the points, so that the parts at the last mentioned side of the points will engage the first member to press the parts at the shoulders in engagement therewith.

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

ERNEST ROLLIN TILTON, JR.

Witnesses:

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H. CHRISTIAN BERGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."