

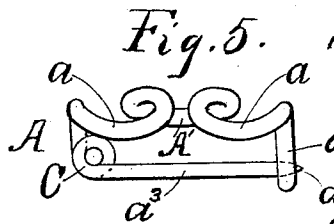
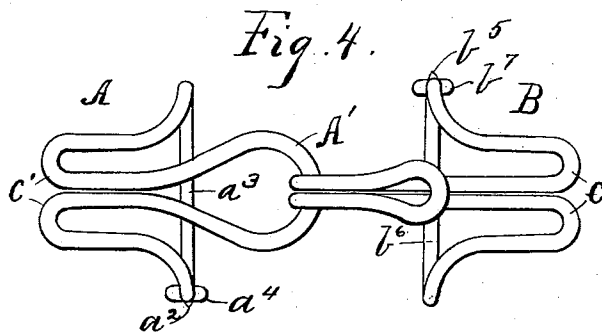
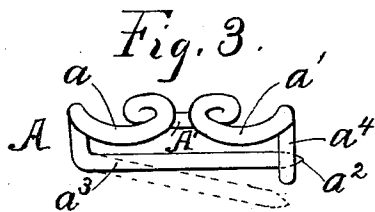
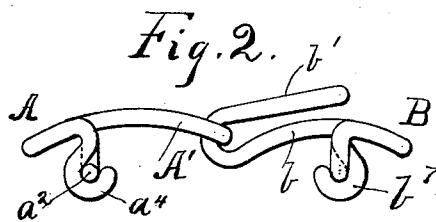
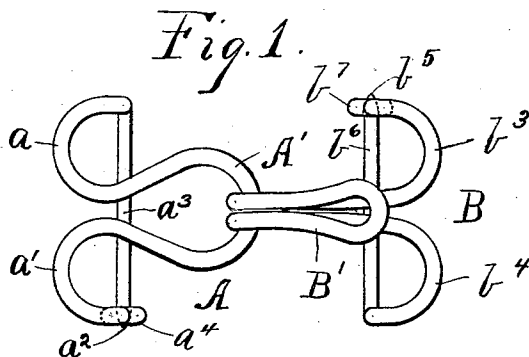
No. 618,093.

Patented Jan. 24, 1899.

H. C. HENZE.
HOOK AND EYE.

(Application filed Aug. 18, 1897.)

(No Model.)



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HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 618,093, dated January 24, 1899.

Application filed August 18, 1897. Serial No. 648,637. (No model.)

To all whom it may concern:

Beit known that I, HENRY C. HENZE, a citizen of the United States, and a resident of New York city, county of New York, and State of New York, have invented certain new and useful Improvements in Hooks and Eyes, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

My invention relates to improvements in garment hooks and eyes, and has for its object to provide simple and inexpensive articles which may be readily attached to and detached from the garment and which will not easily become disengaged from each other.

The invention will be hereinafter fully described and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view showing a hook and eye in engagement with each other. Fig. 2 is a side view thereof. Fig. 3 is an end view of the eye. Fig. 4 is a plan view of a hook and eye, showing a slight modification thereof; and Fig. 5 is an end view of an eye, showing slight modification of the penetrating pin.

In the practice of my invention a simple piece of wire is employed to make either a hook or eye.

In Figs. 1 and 2, A is an eye comprising a main segmental loop A', adapted for engagement with the hook B and the two loops a and a', said loops A', a, and a' being curved slightly downward at their outer ends, which causes the eye to lie close to the garment to which it is attached. The wire after forming the loop a is bent downwardly and thence transversely across the eye, terminating in a point a², thus forming a penetrating pin a³. The wire after forming the loop a' is bent downwardly and terminates in a hook a⁴, adapted to receive and hold the end of the retaining-pin a², as shown in Fig. 2.

In Figs. 1 and 2, B is the hook, comprising a hooked tongue B', adapted for engagement with the eye A, the general contour of the hook B being the same as that of the eye A. The upper part or bill b of the hook B ap-

proaches the under part at b' until the distance between b and b' is less than the diameter of the wire in the eye A. It will be seen that when the eye A is in engagement with the hook B the eye A will not be easily disengaged, and, furthermore, the hook and eye will lie more nearly in the same plane, due to their ends being depressed on account of the curvature heretofore described. The hook comprises, further, the loops b³ and b⁴, the outer end of b⁴ being bent downwardly and thence transversely across the hook B, terminating in the point b⁵, forming the penetrating pin b⁶. The outer end of the loop b³ being bent downwardly and terminating in a hook b⁷ is adapted to receive and hold the penetrating pin b⁶.

Fig. 4 shows a slight modification in the hook and eye, the loops C and C' being narrower and elongated, the object being to prevent tilting when a strain is brought to bear upon them.

Fig. 5 shows a slight modification of the penetrating pin, having a complete convolution C, which makes it more flexible where heavy wire is used in its manufacture.

In the operation of my invention the penetrating pin is inserted through the material to which it is to be attached, and the free penetrating end is then placed in the hook adapted to receive it.

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

1. A garment-fastening device, so constructed as to prevent accidental detachment of its parts, and adapted to be secured closely to a fabric without the aid of threads, the device comprising a hook formed of a single piece of wire, the back or base portion of said hook being arched and the outer or bill portion being extended on a straight line over the said arched portion, and being separated from said arched portion a distance less than the diameter of the wire, means extended transversely beneath and close under and protected by and formed integrally with the said arched portion for securing the same to a fabric, and an eye formed of a single piece of wire, said eye being arched, and means extended transversely beneath and forming an

integral part of the said arched eye for securing the same to a fabric, substantially as shown and described.

2. A garment-fastening device so constructed as to prevent accidental detachment of its parts, when they are connected to each other, and adapted to be secured closely to a fabric without the aid of threads, the device comprising a hook formed of a single piece of wire, the back or base portion of said hook being arched and the outer or bill portion being extended upon a straight line over the said arched portion, and being separated from said arched portion a distance less than the diameter of the wire, one end of the said wire being bent downwardly and terminating in a hook, the other end being bent downwardly and thence transversely across the device beneath and close under and protected by the

arched portion and terminating in a point forming a penetrating pin for engagement with a fabric, and an eye formed of a single piece of wire, the said eye being arched, one end of said wire terminating in a hook, the other end bent downwardly and thence transversely between the ends of the arch and terminating in a point forming a penetrating pin for engagement with a fabric, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 9th day of August, 1897.

HENRY C. HENZE.

Witnesses:

C. SEDGWICK,
M. G. MCCLEAN.