(No Model.)

F. A. DECKER.

HOOK AND EYE.

No. 564,821. Patented July 28, 1896.

Fig. 1.

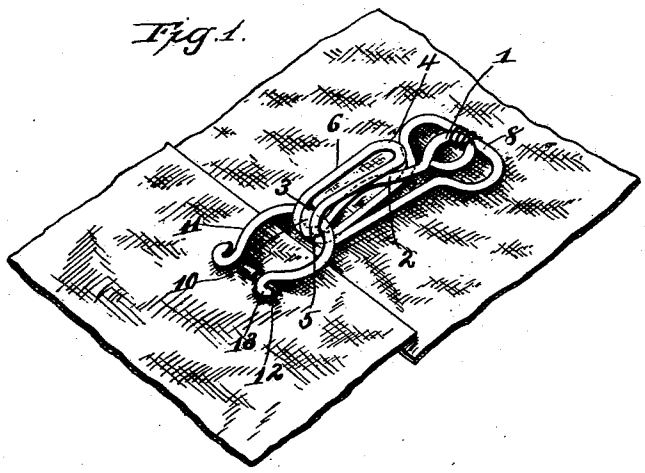


Fig. 2.

Fig. 3.

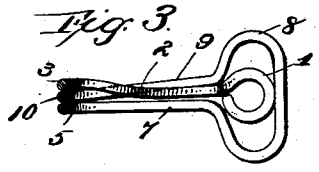
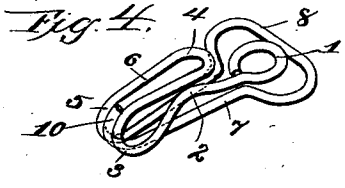


Fig. 4.



Witnesses:
E. C. Wurdeman
S. S. Williamson.

Inventor
Francis A. Decker
by Geo. H. Holgate
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANCIS A. DECKER, OF PHILADELPHIA, PENNSYLVANIA.

HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 564,821, dated July 28, 1896.

Application filed August 10, 1895. Serial No. 558,829. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS A. DECKER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Hooks and Eyes, of which the following is a full, clear, and exact specification.

My invention relates to a new and useful improvement in the hook member of a hook and eye for fastening the meeting edges of garments, and has for its object to produce such a device that will obviate the accidental disengagement of a hook from its eye; and with this end in view the invention consists in certain details of construction and combination of elements hereinafter explained, and then specifically designated by the claim.

In order that those skilled in the art to which my invention appertains may understand how to make and use the same, I will describe its construction and operation in detail, referring by number to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective of my improved hook shown attached to a piece of fabric in connection with a suitable eye; Fig. 2, a central vertical longitudinal section of the hook; Fig. 3, a plan view, the bill being sectioned away at the line $x\,x$ of Fig. 2; and Fig. 4 represents a hook similar in all respects to that shown in Fig. 1, except the direction in which the hump is bent.

Similar numbers denote like parts in the several views of the drawings.

My improved hook is preferably made from a single piece of wire, one end of which is bent to form the eye 1, and then extends upward and forward and downward, forming the hump 2. The wire is then bent at 3 and extends backward, turning upon itself at 4, and, again extending forward, is bent at 5, thus forming the bill 6. From the bend 5 the wire extends backward, producing a shank-section 7, and is then bent to form the elliptical loop 8, which incloses the eye 1. From this loop the wire again extends forward, forming a shank-section 9, and terminates in an auxiliary hook 10, the object of which is to assist in sustaining strain brought to bear upon the bill. By this arrangement it will be seen that three sections of the wire lie parallel, side by side, at the bend of the bill, which gives great rigidity and strength to the hook and prevents it from being sprung or set when considerable strain is brought to bear thereon.

In attaching the hook to the fabric of a garment threads are whipped through the eye 1 and over the rear of the elliptical loop, as shown, so that when strain is put upon the hook the pull is directly against said threads. This construction is designed for use in connection with hooks when considerable strain is brought to bear thereon. The several parts are especially adapted to withstand said strain, and this is accomplished by the three-sectioned bill above referred to, and also by forming the hump 2 upon the section of the wire which terminates in the eye 1, for, as will be seen, when this eye, in connection with the loop, is stitched to the fabric the hump has but little chance to spring and therefore forms a stiff and secure obstruction against the accidental withdrawal of the eye 11 when once engaged with the bill.

While my present hook is adapted to be used in connection with any ordinary eye, I prefer to use the eye 11, which is provided with a prong 12 and latch-hook 13, whereby it may be secured to the fabric of a garment after the manner of a safety-pin.

Having thus fully described my invention, what I claim as new and useful is—

In a hook, the combination of the bill, a loop formed by the extension of one wire of the bill, said loop returning to form a reinforcement to the bill, a hump formed by the extension of the other wire of the bill and terminating in an eye within the loop and adapted to be secured thereto, as and for the purpose described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

FRANCIS A. DECKER.

Witnesses:
S. S. WILLIAMSON,
SAMUEL L. TAYLOR.