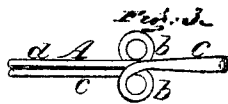
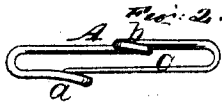
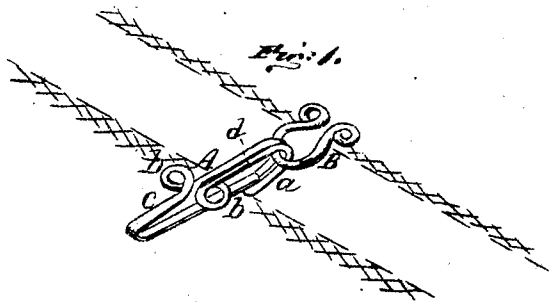


D. M. Smith.
Hook.

No. 28443.

Patented May 22 1860.



Witnesses:
J. W. Corbly
L. M. Hughes

Inventor:
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Spencer Munroe
Attorneys

UNITED STATES PATENT OFFICE.

DAVID M. SMITH, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND H. H. MASON AND A. C. MASON, OF SAME PLACE.

HOOK AND EYE.

Specification of Letters Patent No. 28,443, dated May 22, 1860.

To all whom it may concern:

Be it known that I, DAVID M. SMITH, of Springfield, in the county of Windsor and State of Vermont, have invented a new and
5 useful Improvement in Hooks, the Adjunct of Eyes, generally used for Fastening Ladies' and Children's Garments; and I do hereby declare that the following is a full,
10 clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a perspective view of a hook constructed according to my invention and
15 having an eye connected to it, the hook and eye being attached to and connecting together the ends of two pieces of cloth. Fig. 2, is a detached view of a hook. Fig. 3, a detached back view of the same.

20 Similar letters of reference indicate corresponding parts in the several figures.

The object of the invention is to prevent the casual detaching of the hooks from the
25 eyes by a means that will not appreciably enhance the cost of manufacture.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

30 A represents a hook, which has its bill *a*, and opposite ends *b*, *b*, constructed in the usual form, and of a single piece of wire. One part or leg *c*, of the wire however is larger than the other leg *d*, so that *c*, may be bent around at the front side of the hook,
35 and its outer end brought in contact with the inner side of the bill *a*, as shown clearly in Figs. 1 and 2. The bend of the leg *c*, is so produced as to give the leg *c*, a certain degree of elasticity, and cause it to bear

against the inner side of the bill *a*, and form 40 a snap or spring guard.

In order to carry out perfectly the office of a snap, the leg *c*, as it is bent is flattened so as to render the metal more compact and elastic than it would otherwise be, and in
45 order to form the snap the wires are cut of such a length and bent at such a point as to leave the leg *c*, sufficiently long for the purpose.

This invention does not involve the neces- 50 sity of constructing expensive machinery for manufacturing; for the machines in present use may, by a slight addition of parts, be made to manufacture my improved hooks equally as rapidly as the ordinary 55 ones, the little additional stock required being the chief additional expense.

By this invention it will be seen that the eye B, which is of usual construction, see
60 Fig. 1, cannot be casually detached from its hook A, as the end of the snap *c*, requires to be pressed from the bill *a*, in order to allow the eye to pass off from the bill.

I do not claim broadly combining a snap or spring guard with a hook, for such article
65 has been previously made and used, but,

What I claim as new and desire to secure by Letters Patent—

As an improved article of manufacture a hook A, having one of its legs *c*, extended 70 and bent up, within the bill *a*, so as to form a snap or spring guard as herein shown and described.

DAVID M. SMITH.

Witnesses:

SAML. W. PERTER,
HENRY BARNARD.