

A. A. Holchkriss,

Snap Hook.

No. 108024.

Patented Oct. 4. 1870.

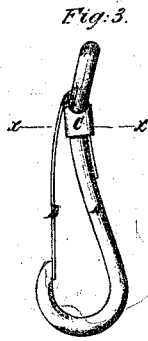
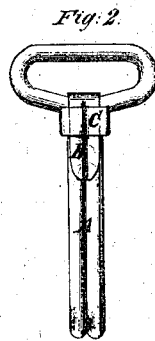
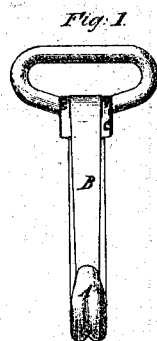


Fig. 5.



Witnesses:
J. H. Haynes
R. R. Rabe

Asahel A. Holchkriss
per Brown, Lombard & Co.

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United States Patent Office.

ASAHEL A. HOTCHKISS, OF SHARON, CONNECTICUT.

Letters Patent No. 108,024, dated October 4, 1870.

IMPROVEMENT IN SNAP-HOOKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ASAHEL A. HOTCHKISS, of Sharon, in the county of Litchfield and State of Connecticut, have invented a new and useful Improvement in Snap-Hooks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming a part of this specification.

This invention consists in a novel construction of and mode of applying and securing the spring to a snap-hook, whereby greater strength and durability and less liability to displacement are obtained.

In the accompanying drawing which illustrates my invention—

Figure 1 is a front view;

Figure 2, a back or rear view;

Figure 3, a side view;

Figure 4 a central longitudinal section; and

Figure 5 is a transverse section, taken at the line *x x*, in fig. 3.

Similar letters of reference indicate corresponding parts in all the figures.

A is the hook, constructed of wire in the usual manner.

B is the spring, and

C is the collar, which secures the spring in the hook.

The spring B, instead of being fastened on the face of the shank of the hook, passes over the front collar C and through the loop of the hook, and is clamped between the back of the shank of the hook and the collar C.

The end of the spring B, which passes between the back of the shank of the hook and the collar C, is in-

dentented to fit into the recess between the wires of the hook.

The collar C is also indented to fit into the indentation in the spring B, and is securely clamped in the shank of the hook, and the indented end of the spring is firmly held between them.

The indentation in the end of the spring, fitting between the indentation in the collar and the recess in the hook, secures the spring from lateral displacement.

The collar C is extended on its face or front side above the lower portion of the loop of the hook on each side of the spring to form guards *c c*, to prevent the spring from lateral displacement.

By this construction of and mode of applying the spring to a snap-hook, I get a spring with nearly twice as much active length as when it is clamped against the face of the hook, and am thereby enabled to use stouter steel than was formerly used for such springs, thereby obtaining greater strength and durability.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The spring B, passing over the front of the collar C and through the loop of the hook, and clamped on the back of the shank of the hook by said collar, substantially as herein shown and described.

2. The guards *c c*, formed on the collar C, extending above the bottom of the loop, as and for the purpose herein set forth.

ASAHEL A. HOTCHKISS.

Witnesses:

C. M. SMITH.

RICHARD SMITH.