

H. C. GOODRICH.
Snap-Hook.

No. 167,399.

Patented Sept. 7, 1875.

Fig. 1.

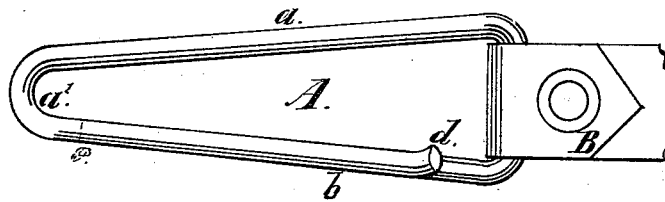


Fig. 2.

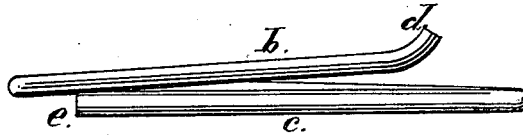


Fig. 3.

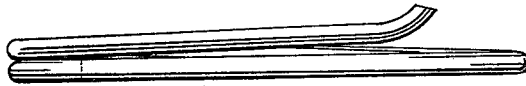


Fig. 4.

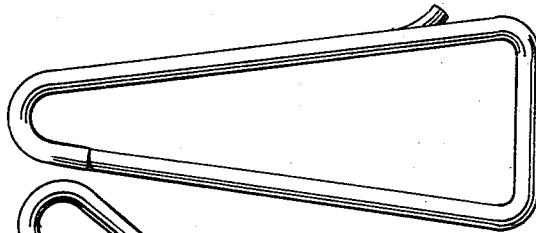


Fig. 5.

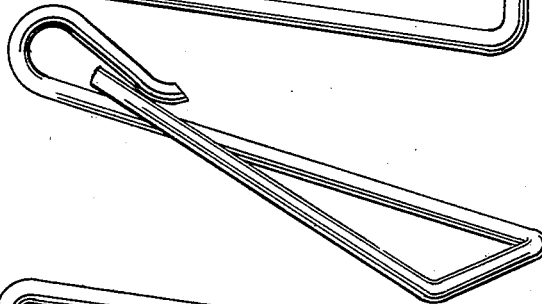
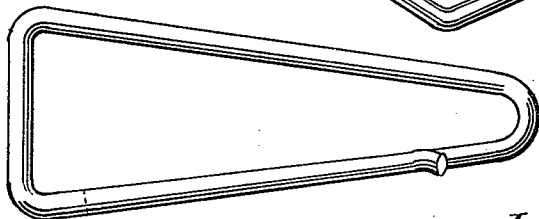


Fig. 6.



Witnesses:
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IMPROVEMENT IN SNAP-HOOKS.

Specification forming part of Letters Patent No. **167,399**, dated September 7, 1875; application filed June 4, 1875.

To all whom it may concern:

Be it known that I, HARRY C. GOODRICH, of Chicago, Cook county, State of Illinois, have invented a new and useful Improvement in Snap-Hooks, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan; Fig. 2, a side elevation. Figs. 3, 4, 5, and 6 are variations.

My invention consists in constructing a snap-hook from a single piece of wire or other suitable metal, adapted to receive a strap at one end, and so formed that it can be secured to a ring by pulling, and be removed in the same manner, as more fully hereinafter described.

It will be seen that the hook can be so made that it can be secured to a ring by pushing, and be removed in the same way—the hook in both cases being both secured to and detached from its ring by movements in the same direction, and not in opposite directions.

In the drawings, A represents one of my snap-hooks as I propose usually to make them. It is formed of a single piece of wire bent into the form shown by Figs. 1 and 2. The ends *b c* overlap each other, as shown. The remaining portion *a a'* is single. The hook being in the position shown in Fig. 1, the overlapping ends are in a vertical plane, which is the most desirable form. The end *d* of the part *b* is turned up. At *e* the two parts *b c* are in contact, or nearly so, but they may be a little distance apart a portion of the way from *e* to *d*, as shown, to facilitate insertion and removal. B is a strap, suitably secured to A.

The hook can be secured to a ring by catching the point *d* over the ring, and then, pulling on the hook or strap, the hook will be drawn over the ring between the parts *b c*, until it passes the point *e*. To remove the hook, turn it half over, catch the point *d* over the ring, as before, pull, and it will be removed in exactly the same way that it was inserted.

This hook can be used for many purposes. It should be made of steel or other metal having suitable spring.

In Figs. 3 and 4 is shown a variation which may be used. Fig. 5 shows another variation, which form will be convenient in some cases. Fig. 6 shows a variation permitting the insertion and removal of the hook by pushing, instead of pulling; but all operate on the same principle, the only difference between the form shown in Fig. 1 and that in Fig. 3 being that the part *c* is carried around under *a'*.

What I claim as new, and desire to secure by Letters Patent, is as follows:

A snap-hook made of a continuous piece of spring-wire bent into form, as described, so that the ends pass each other in parallel planes, and having the outer end deflected to facilitate the attachment of a ring, substantially as specified.

HARRY C. GOODRICH.

Witnesses:

E. A. WEST,
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