

S. REYNOLDS.
Snap-Hooks.

No. 148,244.

Patented March 3, 1874.

Fig. 1.

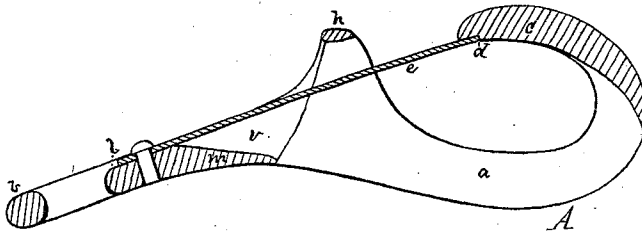


Fig. 2.

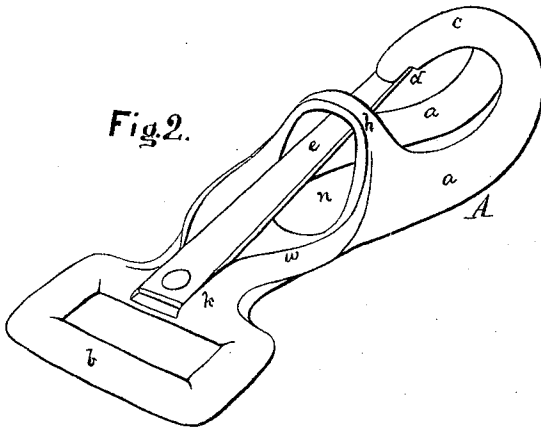
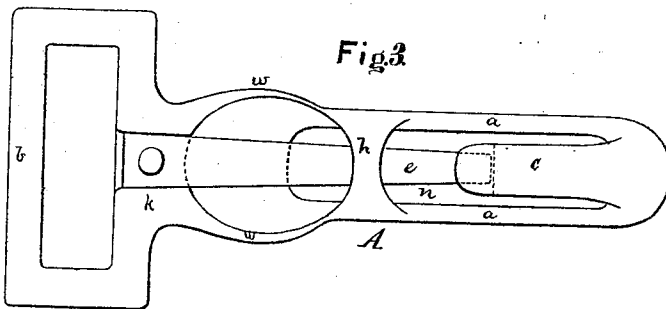


Fig. 3.



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By

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UNITED STATES PATENT OFFICE.

SAMUEL REYNOLDS, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN SNAP-HOOKS.

Specification forming part of Letters Patent No. **148,241**, dated March 3, 1874; application filed April 15, 1873.

CASE A.

To all whom it may concern:

Be it known that I, SAMUEL REYNOLDS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and valuable Improvement in Snap-Hooks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal section of the snap-hook. Fig. 2 is a perspective view, and Fig. 3 is a top view, of the same.

This invention has relation to snap-hooks of that construction in which the end of the spring is fitted against the under side of the end of the hook, and where, in order to remove the hook from anything to which it may be connected, it is necessary to depress the spring, and thereby open a passage between its end and the end of the hook, against which it is fitted when closed. The invention consists in the construction and novel arrangement of the parts of the snap-hook, whereby it may be readily cast with a thumb-seat back of the guard or bridge about the base or larger end of the spring, an inclined spring-seat at the commencement of said thumb-seat for the attachment of the spring to the body of the hook, and a guard-flange or shelf transversely arranged in front of said spring-seat, forming a floor to the thumb-seat, and serving to prevent the spring from being depressed to such a degree as to cause its fracture or displacement.

In the accompanying drawings, the letter A designates the body of the snap-hook, which may be cast in suitable molds, as fully set forth in the specification of my application for a patent for such molds now pending in the United States Patent Office.

The snap-hook body consists of two side bars, *a a*, joined at one end to form the strap-loop *b*, and at the extreme of the other end to form the reversed portion *c* of the beak of the hook, which is slightly recessed at its end *d* to receive the end of the spring *e*. At about the middle of the body the upper edges of the side bars are connected by a bridge or guard, *h*, which passes transversely over the spring, forming the front wall of the thumb-seat, and serving the double purpose of guarding the thumb from the hook-beak, and pre-

venting the spring from being forcibly bent or pulled outward from its bearing against said beak, or from being laterally displaced. Adjacent to the strap-loop *b* the lower edges of the side bars are connected by a transverse double-inclined plate portion, *k*. The first part of this plate is recessed centrally and longitudinally to form the seat *l*, in which the root of the spring is securely attached by riveting or otherwise. The floor of this spring-seat is inclined upward and forward in the direction of the end of the beak *c*, so that the spring lies in a right line, or nearly so. Forward of the recess the plate is inclined forward and downward, forming the floor *m* of the thumb-seat *v*, which is bounded laterally by flaring portions *w* of the side bars *a* in rear of the bridge *h*. In this manner the rear portion of the body is enlarged sufficiently for the reception of the ball of the thumb, which is enabled to bear upon the rear portion of the spring to force its end down, and thus allow the withdrawal from the hook of the ring or other article to which it may be attached.

The floor *m* of the thumb-seat, besides giving strength to the body, serves to prevent the spring from being forced down so far as to displace or fracture it.

By this construction a ledge or guard-shelf under the forward end of the spring is dispensed with, and the side bars being thus left with a clear space between, underneath the beak portion *c*, the casting is facilitated.

Between the plate *k* and the beak *c* the side bars *a* are separated below by a slot, *n*, which gives lightness to this portion of the body.

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

The snap-hook described, consisting of the spring *e* and the cast-metal body A, having side bars *a*, connected at their ends to form the loop *b* and recessed portion *c* of the beak by their upper edges, to form the upper spring-guard *h*, and by their lower edges to form the double-inclined spring-seat *l* and lower guard *m* at the root of the spring, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL REYNOLDS.

Witnesses:

GEORGE E. UPHAM,
PHIL. C. MASL.