

A. L. STROHL.  
SNAP HOOK.  
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935,174.

Patented Sept. 28, 1909.

Fig. 1.

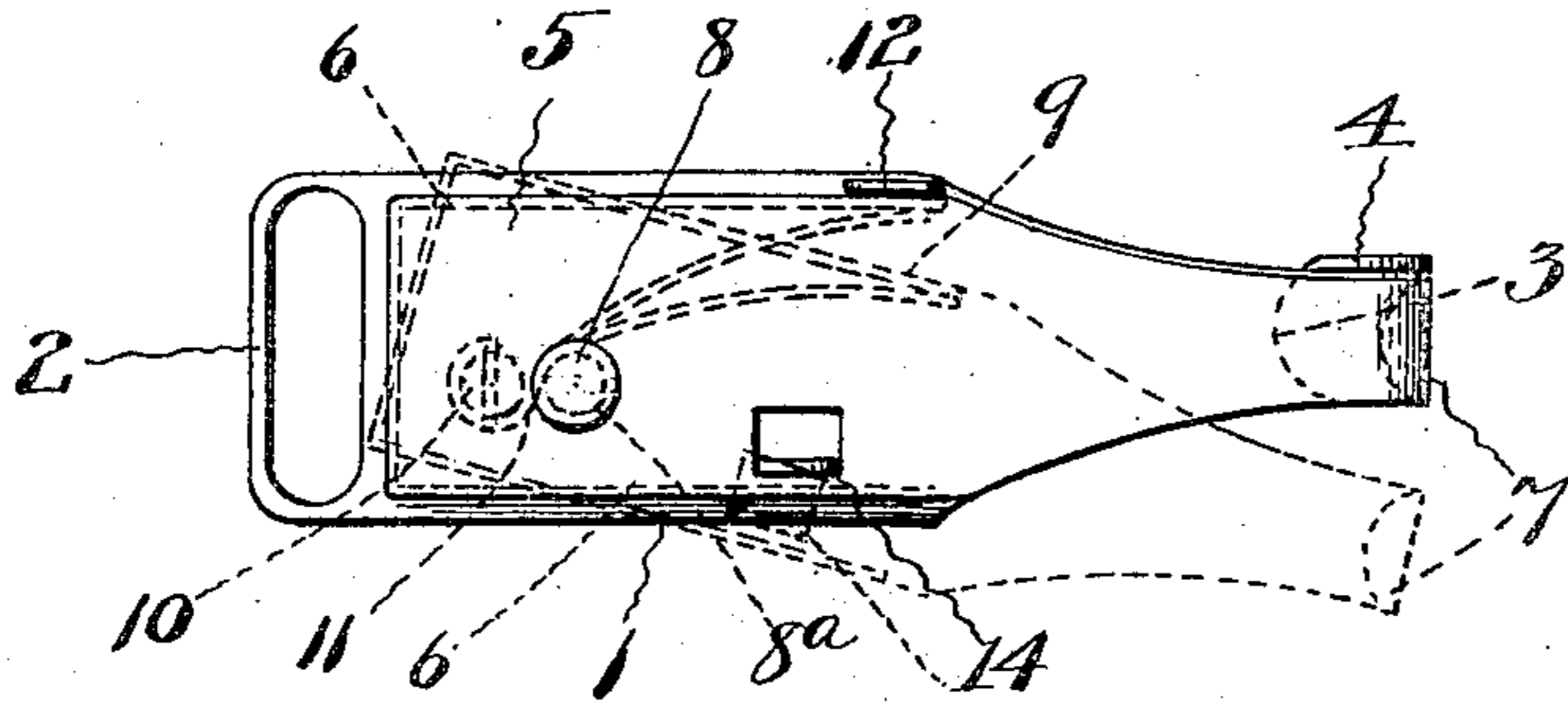


Fig. 2.

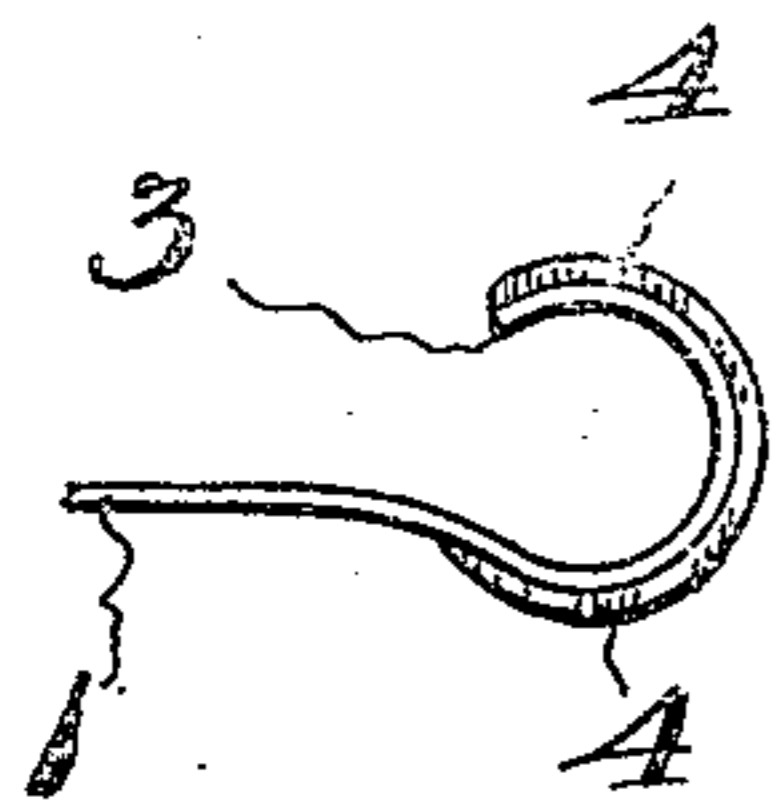
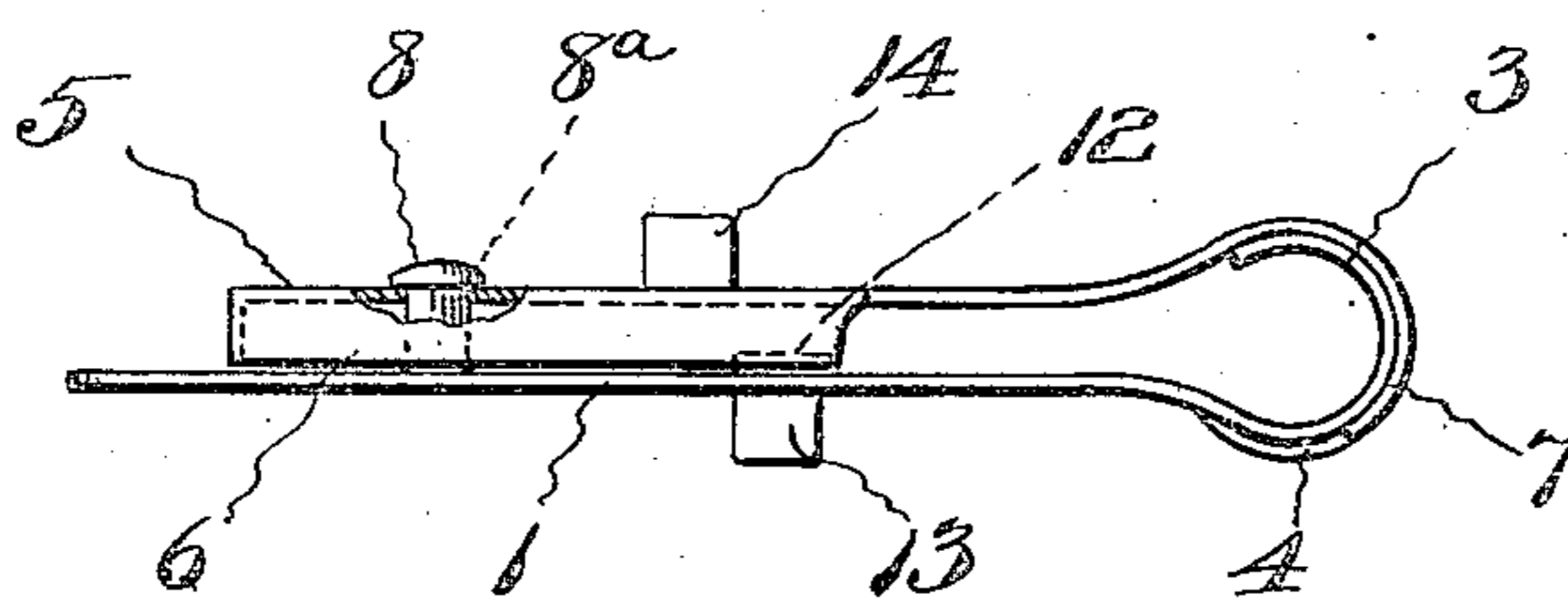


Fig. 3.

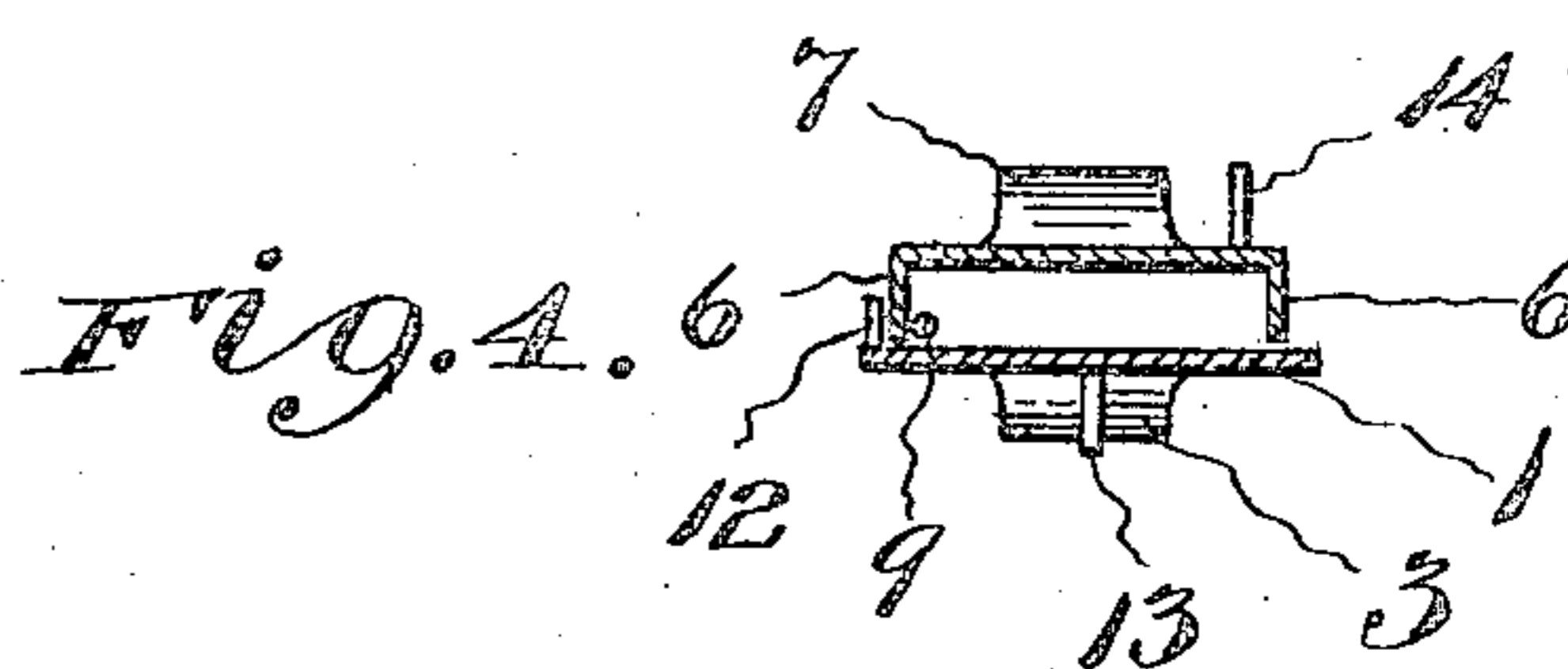


Fig. 4.

Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

ALBERT LEON STROHL, OF HARDIN, MISSOURI.

## SNAP-HOOK.

935,174.

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*To all whom it may concern:*

Be it known that I, ALBERT LEON STROHL, a citizen of the United States, and a resident of Hardin, in the county of Ray and State of Missouri, have invented certain new and useful Improvements in Snap-Hooks, of which the following is a specification.

My invention relates to harness snap-hooks, and has for its object the provision of a hook that is reasonable in cost of manufacture, more durable than the snaps of ordinary construction, and so constructed that the hook portion is of double strength, being formed of two overlapping units that interlock when in a locked position. Furthermore the hook is easily operated and impossible to unlock when in position except when properly manipulated.

The construction and operation of my improved snap-hook will be described hereinafter and illustrated in the accompanying drawing, in which—

Figure 1 is a top plan view of my improved snap-hook showing it in a closed position in full lines and in an open position in broken lines; Fig. 2, a side view; Fig. 3, a fragmental view of the hook extended from base 1; and Fig. 4, a cross-section of the base and casing.

In the drawings similar reference characters indicate corresponding parts in the several views.

The base 1 of my improved snap-hook has an eye 2 at one end, to which may be secured the harness-strap (not shown), and at its other end a hook 3, with a flange 4 projecting from one edge. The other member of the hook consists of a casing 5, having flanges 6 that engage base-plate 1, and is formed with a hook 7 at one end complementary to the hook 3, and when in operative position engages its outer portion.

The base-plate 1 and casing 5 are pivotally secured together by means of rivet 8, secured to base 1, and engaging a hole 8<sup>a</sup> in casing 5, or other suitable fastening, and the two hooks are held normally in engagement with one another by means of a spring 9, secured at one end to pin 10 on the base-plate 1, bent around rivet 8, as shown at 11, and engaging one of the flanges 6 on casing 5, said flanges being shown formed by cutting the casing on three sides and bending it inwardly; but it will be apparent that the flanges may be formed in any other manner without departing from the spirit of my invention.

12 indicates a flange or projection on the edge of base-plate 1 that engages the flange 6 on the casing 5 to stop the casing when moving under the impulse of spring 9 when the hooks 3 and 7 are in a locked position, flange 4 on hook 3 also serving the same purpose, as well as to strengthen said hook.

13 indicates a lug on the outer side of base 1, and 14 another lug on the other side of casing 5, said lugs forming finger-holds for manipulating the hook in swinging the two hooks 3 and 7 apart against the resistance of spring 9, and are shown constructed by cutting the metal of base 1 and casing 5 on three sides and bending the tongue formed thereby outwardly, but said lugs may be formed in any other manner, the construction shown not being essential to the complete operation of my invention.

It will be understood that when the hooks 3 and 7 are swung apart, as shown in Fig. 1, they are in position to be attached to a ring or loop on the harness or other device, when by releasing the pressure on the two parts the spring 9 will swing the two hooks into engagement and they will securely hold the ring or loop from displacement, and as the hooks 3 and 7 overlap one another the device is very strong and will bear a great strain without breaking.

Having thus described my invention, what I claim is—

A snap-hook consisting of a base-plate having a hook at one end with an outwardly extending flange, the other end of the base plate having a strap-loop thereon, a spring secured to said base plate, a casing pivotally secured to said base and having flanges engaging it, said spring engaging one of the flanges on said casing, a hook formed on said casing and normally engaging the first-mentioned hook, the flange on the first-mentioned hook forming a stop to limit the movement of the hook on the casing, a lug on the base plate engaging the flange on the casing when the hooks are in engagement, and finger-hold lugs extending outwardly from the base plate and casing, substantially as shown and described.

In witness whereof I have hereunto set my hand in presence of two subscribing witnesses.

ALBERT LEON STROHL.

Witnesses:

CHARLIE STAPP,  
MARVIN GRIMES.