

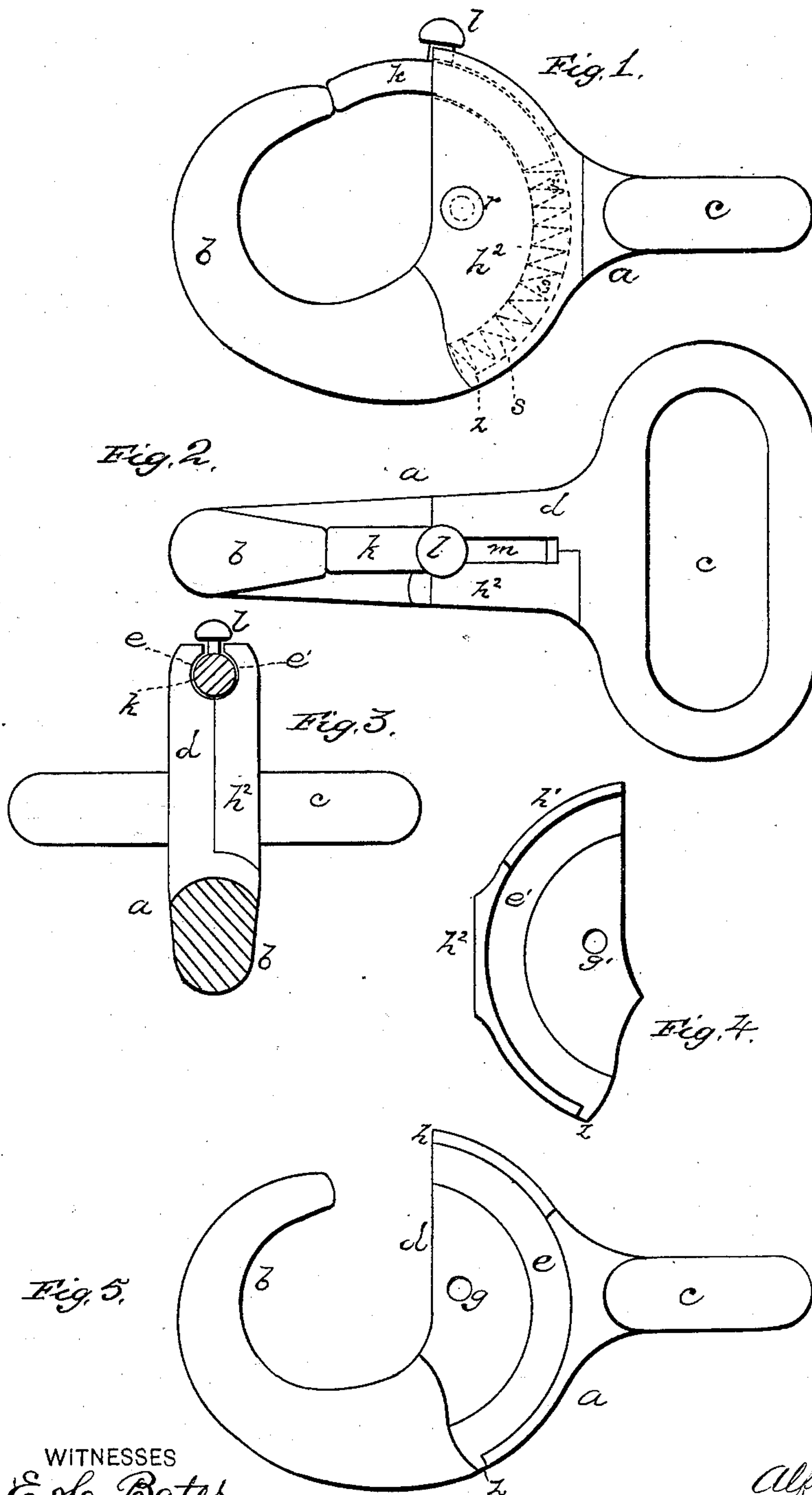
(No Model.)

A. S. HENN.

SNAP HOOK.

No. 257,006.

Patented Apr. 25, 1882.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

ALFRED S. HENN, OF NEW HAVEN, CONNECTICUT.

## SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 257,006, dated April 25, 1882.

Application filed February 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED S. HENN, a citizen of the United States, and resident of New Haven, in the county of New Haven and State of Connecticut, have invented a new and valuable Improvement in Bolt 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 is a side view of the bolt snap-hook. Fig. 2 is an edge view of the same. Fig. 3 is a sectional view. Fig. 4 is a view of the cap-plate, and Fig. 5 is a view of the body-plate with the cap-plate removed.

This invention has relation to bolt snap-hooks; and it consists in the construction and novel arrangement, in connection with the curved bolt and its spring, of the circularly-grooved body portion and the circularly-grooved cap-plate complementary thereto, and forming a circularly-curved recess to receive the bolt and spring, all as hereinafter set forth.

In the accompanying drawings, the letter *a* designates the body portion or main casting, which is formed with the hook *b* and loop *c*, and between the two a halved or thinner portion, *d*, which is circularly grooved at *e*, and is provided with a rivet-seat, *g*. The outer edge *h* of the groove *e* in the portion nearest the hook is cast short.

*h*<sup>2</sup> represents the cap-plate, which is similar in shape to the halved or thin portion *d* of the body, and is designed to fit neatly thereon, filling the recess out, so that each side of the body will present a smooth exterior surface of similar appearance. In the cap-plate is formed a circular groove, *e'*, which is complementary to

the groove *e* of the body, and is designed to form therewith a circular recess, in which is placed the spring *s* and the curved bolt *k*. The outer edge of the groove *e'* of the cap-plate is cast short at *h'*, opposite to the short portion *h* of the wall of the groove in the body, and when these short edges are approximated a slot, *m*, is formed, in which moves the neck of the thumb-stud *l*.

The cap-plate is secured to the body of the hook by means of a rivet, *r*, passing through the holes or seats *g* and *g'*.

In this construction no bending is required after the hook portion is cast. The hook can therefore be cast in strong form, as it is not liable to be broken in introducing the spring and bolt.

At the end of the bolt recess an aperture, *z*, is provided to afford an outlet to water, which sometimes may enter the recess.

A spring and bolt-holding body made in two parts are not new in a snap-hook, and are not broadly claimed herein.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

A bolt snap-hook consisting of the circularly-grooved body portion *a* and the complementary circularly-grooved cap-plate *h*, riveted thereto, and forming therewith a circular recess to receive the curved bolt and spring, substantially as specified.

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

ALFRED S. HENN.

Witnesses:

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