(No Model.)

E. H. SMITH.

SAFETY HOOK.

No. 348,791. Patented Sept. 7, 1886.

Fig. 1.

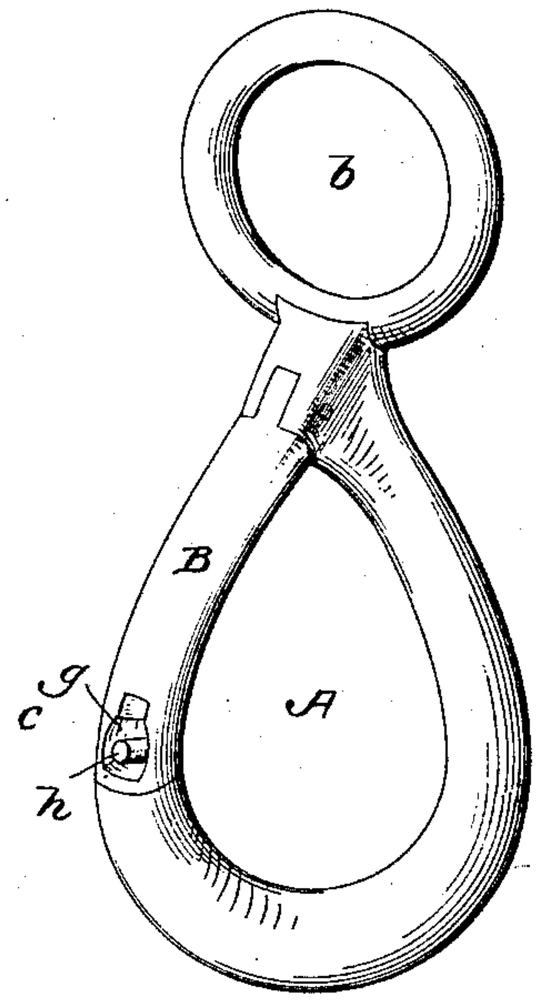
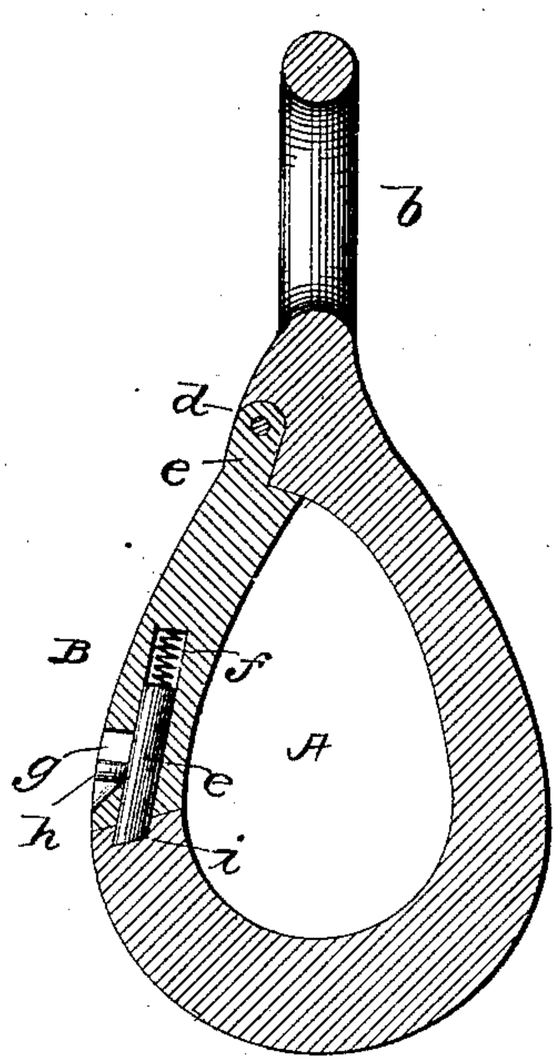
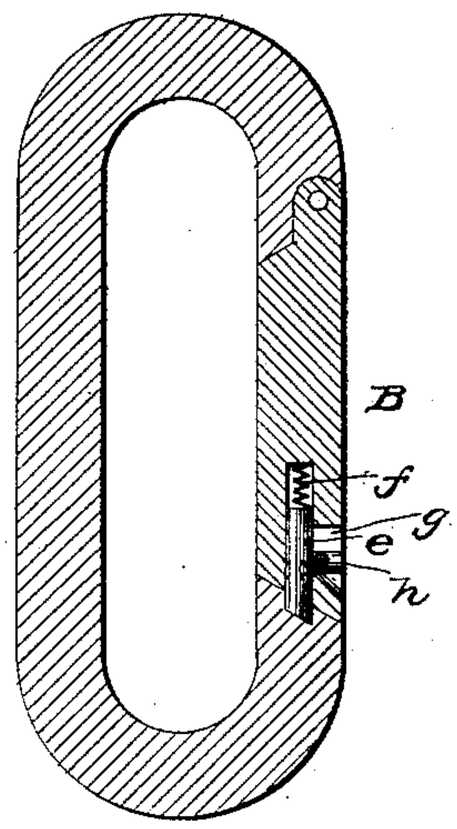


Fig. 2.

Fig. 3.





WITNESSES

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SAFETY-HOOK.

SPECIFICATION forming part of Letters Patent No. 348,791, dated September 7, 1886.

Application filed December 21, 1885. Serial No. 186,348. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. SMITH, a citizen of the United States, residing at Rutherford, in the county of Napa and State of California, have invented certain new and useful Improvements in Safety-Hooks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to safety-hooks, the object being to provide a device of this character which may be readily and quickly attached to or detached from an object, and which will be held against accidental displacement or detachment.

A further object of the invention is to simplify and improve devices of this class, and to provide a hook which shall be strong and durable, and which may be manufactured and supplied at a comparatively slight cost.

The invention consists in the improved construction and combination of parts, hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a hook embodying my invention. Fig. 2 is a vertical section of the same, taken through the pivoted portion and showing the spring-actuated bolt; and Fig. 3 is a view showing my improvement applied to links.

Corresponding parts in the several figures are denoted by the same letters of reference.

Referring to the drawings, A represents the body of the hook, which is, as shown, preferably oval. The hook is made smaller at one end than at its other end, and formed integral with or secured to the small end is an eye or loop, *b*, the opening of which is at right angles to that of the hook, said eye serving as a means of attachment for the hook. The hook A is formed on one of its sides *c* with an opening, which opening extends from its small end to a point about midway its ends. A recess, *d*, is made in the body of the hook at the small end thereof, and pivoted in said recess is the extension or projection *e* of a portion, B, which corresponds to the opening in the side of the hook A. The portion B is formed at its free end with an interior passage or opening, in which slides a bolt, *e'*, against the rear end of which bears a spiral spring, *f*, so that the end of the bolt *e* is forced beyond the portion B. An opening, *g*, is made in the portion B, near the free end thereof, which opening communicates with the interior passage in the portion B, and located in said opening is a finger-piece, *h*, which projects from the sliding bolt, and by means of which said bolt may be moved. The opening *g*, as will be seen, is sufficiently large to admit the end of the thumb, so that the bolt may be readily moved to open the portion B, said opening being beveled at one end for this purpose. The finger-piece *h* is located below the face of the opening, so that there is no possibility of the spring-actuated bolt being accidentally moved and the portion B detached. The free end of the spring-actuated bolt engages an opening, *i*, made in the portion A, and thus closes said opening. When desired to remove the hook, the bolt may be slid rearwardly by means of the finger-piece, and the portion B lifted, when the hook may be detached.

In Fig. 3 I have illustrated my improvement applied to a link. In this instance the construction and operation is similar to that described in the hook.

The improvement before described is simple in its construction, cheap to manufacture, and thoroughly effective for the purpose intended.

Having thus described my invention, I claim—

The combination, with the hook A, of the pivoted portion B, having the straight vertical passage, a bolt in said passage, a spring in said passage bearing against the upper end of the bolt, a finger-piece projecting from the bolt, the portion B, having an enlarged opening in which the finger-piece works, said opening being beveled at one end, and the end of the finger-piece being located below the face of the portion B.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD H. SMITH.

Witnesses:

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