J. Letchworth,

Snap Hook,

No. 59,511, Patented Nov. 6, 1866.

Fig: 2

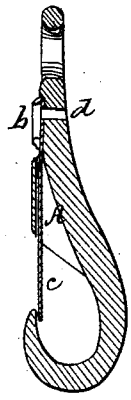


Fig: 1

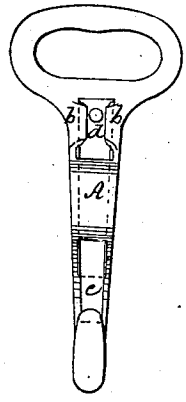
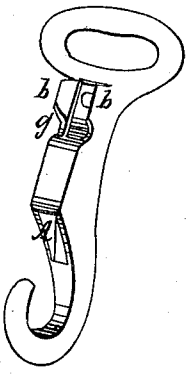


Fig: 3



Witnesses.

Chas. E. Bacon

B. H. Muehler

Inventor

Josiah Litchworth

By E. B. & W. H. Forbush

Attys

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UNITED STATES PATENT OFFICE.

JOSIAH LETCHWORTH, OF BUFFALO, NEW YORK, ASSIGNOR TO PRATT & LETCHWORTH, OF SAME PLACE.

IMPROVED SNAP-HOOK.

Specification forming part of Letters Patent No. **59,511**, dated November 6, 1866.

To all whom it may concern:

Be it known that I, JOSIAH LETCHWORTH, of the city of Buffalo, county of Erie, and State of New York, (assignor to SAMUEL T. PRATT, PASCHAL P. PRATT, WILLIAM P. LETCHWORTH, and JOSIAH LETCHWORTH,) have invented a new and Improved Snap-Hook; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure I is a plan view. Fig. II is a longitudinal section. Fig. III is a perspective of the casting before the spring is put in.

Letters of like name and kind refer to like parts in each of the figures.

The nature of this invention consists in the combination of a longitudinal aperture or mortise in the middle portion of a snap-hook, with side lips below the mortise and near the loop, (or in lieu of the side lips a rivet,) as a means of fastening, supporting, and protecting the spring.

In the construction of this snap-hook I make a longitudinal aperture or mortise in the middle portion, (a little more than one-half of the middle portion,) as represented at A, and then project a lip on either side just below the mortise, as shown at *b*. The base end of the spring *c* is put in between these lips, the body of the spring passing through the mortise and the tip thereof lapping onto the hook, as shown in the drawings. The lips are then pressed down upon the base end of the spring, holding it securely, the body of the spring having free play in the mortise in the direction it is required to work, while at the same time it is prevented from a lateral or edgewise movement by the vertical sides of the mortise.

I have contemplated using a rivet, *d*, through the base end of the spring and body of the device instead of the lips, in case it may be preferred. Either mode will be sufficient to hold the spring securely in connection with the longitudinal mortise, and the lips are formed in casting the metal. The spring is slightly tapering, and the mortise in its vertical sides corresponds therewith.

I am aware that the longitudinal mortise is a joint invention, and is the subject-matter of an application for a patent made by E. B. Forbush and myself, and therefore I make no claim herein to that device.

I am also aware that the lips and a rivet have been heretofore used as a means of fastening the base end of the spring; but I am not aware that lips or a rivet have been before used in connection with a longitudinal mortise, as herein described. Therefore,

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

The combination of the longitudinal mortise A with the lips *b*, made below the mortise, so as to show a recess or depression, *g*, or with the rivet *d*, for the purpose and substantially as described.

JOSIAH LETCHWORTH.

Witnesses:

B. H. MUEHLE,

CHAS. E. BACON.