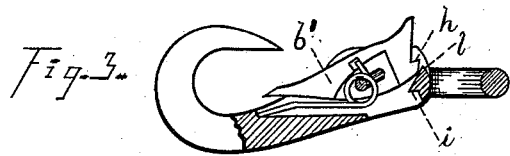
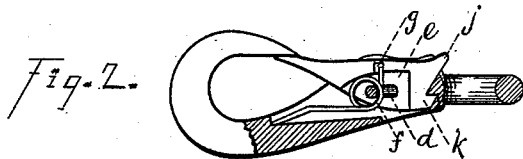


W. H. MAIN.
Snap-Hook.

No. 208,250.

Patented Sept. 24, 1878.



Witnesses:
Robt. J. Gaylord
Lewis Sperry

Inventor:
Wm. H. Main,
By Wm. E. Simmons
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. MAIN, OF PINE MEADOW, CONNECTICUT.

IMPROVEMENT IN SNAP-HOOKS.

Specification forming part of Letters Patent No. **208,250**, dated September 24, 1878; application filed April 15, 1878.

To all whom it may concern:

Be it known that I, Wm. H. MAIN, of Pine Meadow, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements pertaining to a Snap-Hook, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a side view. Fig. 2 is a side view, with one side of the hook-body represented as broken away, the tongue being shown in the closed position. Fig. 3 is a side view, same as Fig. 2, except the tongue is shown in the opened position. Fig. 4 is a bottom view of the tongue.

This is one of that class of snap-hooks known as "locking-snaps."

The letter *a* denotes the hook-body, and *b* the common strap-loop. The tongue *b'* is pivoted within the hook-body *a*, upon the pivot-pin *c*. The tongue is provided with the pivot-slot *d*, through which the pivot-pin *c* runs, permitting the tongue to not only turn on the pivot-pin, but also to have a longitudinal play thereon.

The tongue has underneath the recess *e*, in which, and preferably around the pivot-pin, is coiled the spring *f*, one end of which bears upon the bottom of the mortise made in the rear end of the hook-body to receive the tongue, and the other end of which enters the notch *g*, made in the top of the recess *e*. The action of this spring is not only to close the tongue, but also to press it to the rear limit of its lon-

gitudinal play. The tongue has the shoulder *h*, bearing, when the tongue is closed, against the shoulder *i*, which is on the hook-body, in such fashion as to prevent the tongue from being opened till it has first had a longitudinal movement forward. This is the locking feature.

The user or operator, in order to open the tongue, puts his thumb against the thumb-piece *j*, which projects rearward from the tongue, and by a single continuing impulse pushes the tongue forward, so as to disengage the shoulders *h i*, and then, bearing upward on the thumb-piece, opens the tongue. When opened the spring *f* pushes the tongue rearward, so that the cam *k* on the tongue lies on the incline *l*, just above the shoulder *i*, and keeps the tongue opened till purposely closed.

I claim as my improvement—

In combination, the hook-body *a*, provided with the shoulder *i* rearward of the pivot-pin, the spring *f*, with one end bearing upon the bottom of the mortise in the hook-body, and the other end bearing upward and backward on the tongue, the pivot-pin *c*, and the tongue *b*, provided with the pivot-slot *d*, the recess *e*, the shoulder *h* rearward of the pivot-pin, and the thumb-piece *j*.

WILLIAM H. MAIN.

Witnesses:

GEORGE D. MASHER,
SAMUEL ALLEN.