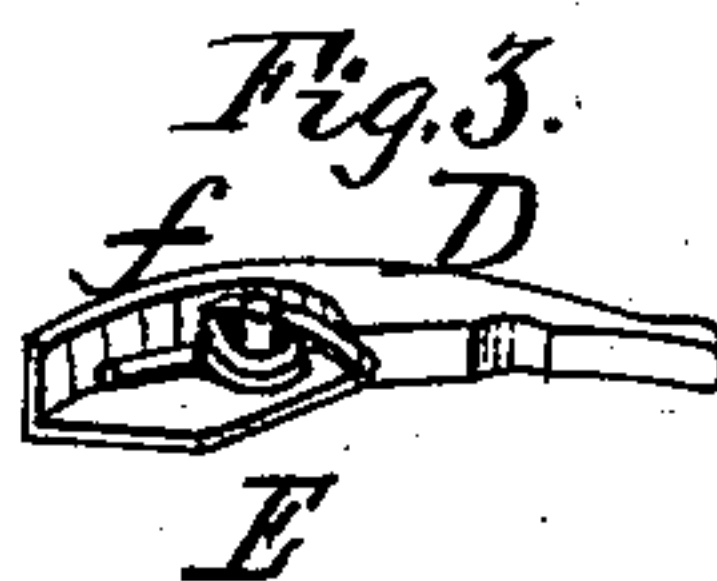
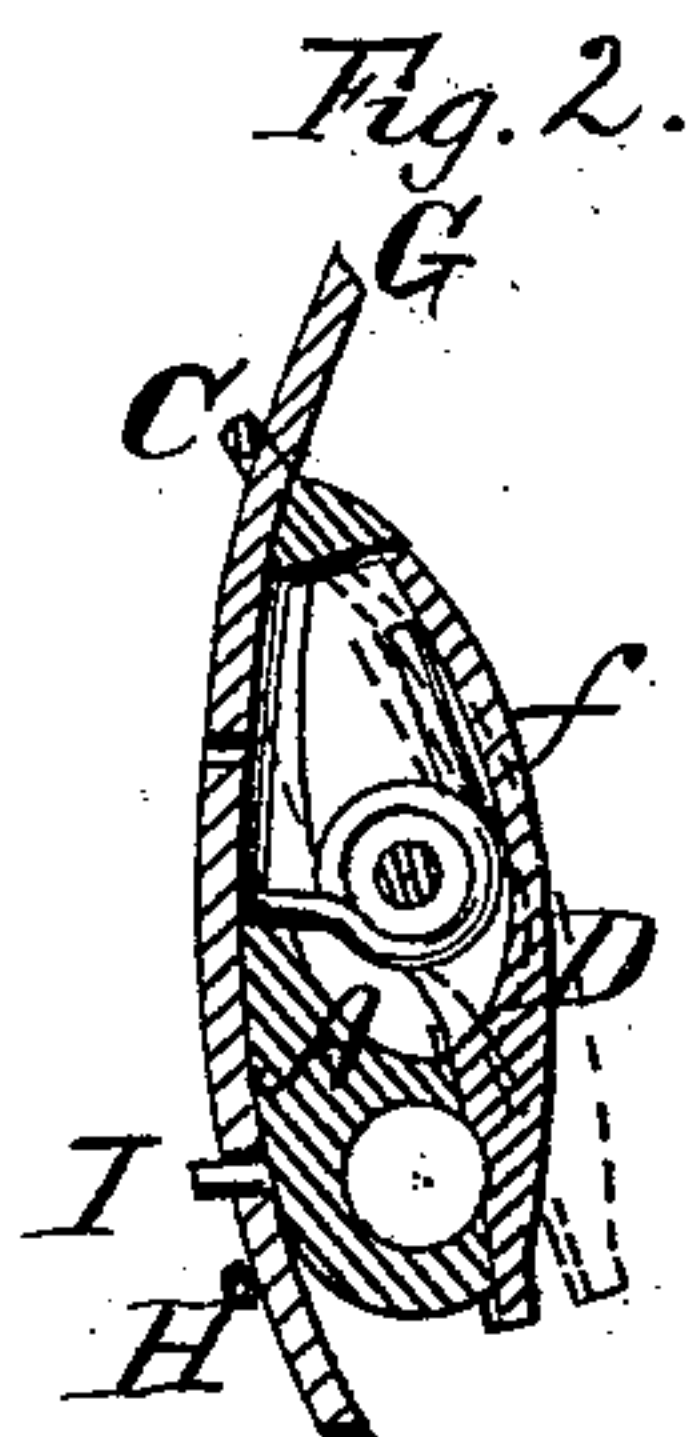
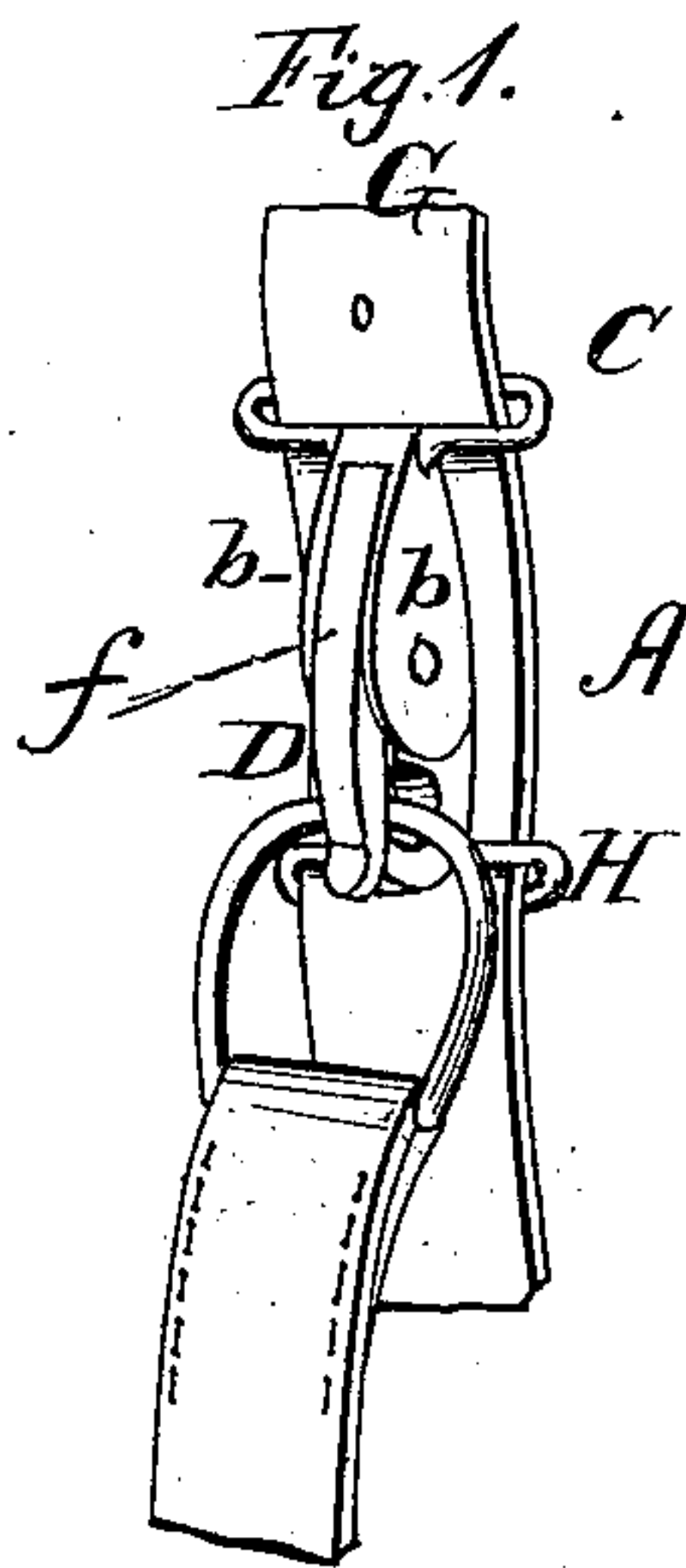


M. W. LYNCH.  
SNAP-HOOK.

No. 179,418.

Patented July 4, 1876.



WITNESSES  
Grenville Lewis  
McHenry

By

INVENTOR  
Matthew J. Lynch.  
By Hill & Alsworth.  
His Attorneys.

# UNITED STATES PATENT OFFICE.

MATTHEW W. LYNCH, OF MADISON, WISCONSIN.

## IMPROVEMENT IN SNAP-HOOKS.

Specification forming part of Letters Patent No. **179,418**, dated July 4, 1876; application filed May 24, 1875.

*To all whom it may concern:*

Be it known that I, MATTHEW W. LYNCH, of Madison, in the county of Dane and State of Wisconsin, have invented a new and Improved Snap-Hook; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved snap-hook applied to a strap. Fig. 2 is a longitudinal section of the same; and Fig. 3 is a perspective view of the spring-catch, detached from the hook.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention has for its object to improve the construction of snap-hooks for harnesses; and to this end it consists in providing a snap-hook whose catch or tongue opens outward, with a rigid stud upon the back, and with a loop at or near each end for the purpose of adapting the snap-hook for adjustment upon its strap and to hold both its ends firmly down to the latter when the catch is being opened by an outward pull upon it.

In the accompanying drawings, A is the snap-hook, cast, or otherwise constructed, with two cheek-pieces, *b b*, between the bend of the hook and the end loop C. D is the catch, pivoted between the cheeks so that its outer end shall bear against the point of the hook, as shown in Figs. 2 and 3. The inner end of the catch is formed with a side recess to inclose a coiled or spiral spring, E, which is coiled upon the pivot, and exerts its tension to hold the outer end of the catch against the point of the hook. The outer edge *f* of the catch is made of sufficient width to entirely fill the space between the two cheek-pieces, for the purpose of

excluding dirt, snow, and other substances which would interfere with the proper working of the hook. The spaces at opposite ends of the cheek-pieces are also closed for this purpose, as shown in Fig. 2. The cheek-pieces are made of sufficient depth to admit of the requisite movement of the catch in applying and releasing a strap, its outward swing being shown by the dotted lines in Fig. 2. To release a strap from the hook portion of the snap it is only necessary to pull the strap directly outward, when the catch will yield and the strap slip off its point, as will be readily understood.

For the purpose of attaching the snap-hook to a strap, G, and adapting it for adjustment thereon, I provide it with a second loop, H, at the back portion of the hook, and with a short tongue, I, to enter the holes of the strap, as shown. The second loop holds the hook end down upon the strap, and therefore prevents the tongue from slipping out of the holes. To adjust the snap-hook upon the strap the latter is loosened a little between the two loops C H, so that the tongue may escape from the holes, when the hook is moved to a new position, and the strap again tightened.

Having thus described my invention, what I claim is—

The snap-hook, having the outwardly-opening catch or tongue, provided with the rigid stud I upon the back, the loop C at the end of the shank, and the loop H at the beak of the hook, substantially as described, for the purposes specified.

MATTHEW W. LYNCH.

Witnesses:

E. A. ELLSWORTH,  
T. McKENNY.