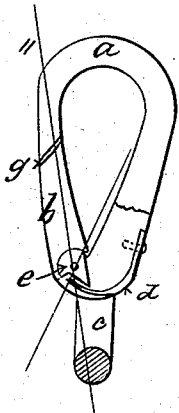


*N. North,  
Snap-Hook.*

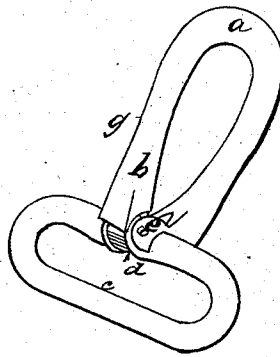
N<sup>o</sup> 39670.

*Patented Aug. 25 1863.*

Fig: 2



*Fig:1*



Witnesses.

Henry S White  
Barlett Bent Jr

Inventor  
Norman North

By Jeremy W Blip

# UNITED STATES PATENT OFFICE.

NORMAN NORTH, OF MIDDLETOWN, CONNECTICUT.

## IMPROVEMENT IN SNAP-HOOKS.

Specification forming part of Letters Patent No. **39,670**, dated August 25, 1863.

*To all whom it may concern :*

Be it known that I, NORMAN NORTH, of Middletown, county of Middlesex, and State of Connecticut, have invented certain new and useful Improvements in the Manufacture of Snap-Hooks; and I do hereby declare that the same is described and represented in the following specification and drawings, and to enable others skilled in the art to make and use the same, I will proceed to describe its construction, referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of said improvement will be fully understood from the specification and drawings, in which—

Figure 1 is a perspective view. Fig. 2 is an edge view. The loop, a portion of the hook, its latch and spring, are shown in section.

*a* is the hook. *b* is the latch. *c* is the loop, by which it is made fast to a strap. *d* is the spring, which is fitted and secured at one end by a pin or screw into a recess on the outside and around the heel end of the hook, so as to appear flush with the outside of the hook. The latch *b* is secured to the heel of the hook by a hinge-joint, *e*, and that portion of the latch which is fitted into and forms part of the joint is flattened, so as to produce a lever-

age for the spring to act against and cause it to press firmly against the V-shaped seat in the end of the hook at *g*, and is, or may be, of such shape as to allow the latch to be set or fixed, or nearly so, when pressed inward from its position indicated by the line ' to that indicated by the line ". This spring, being fitted upon the outside of the hook, renders it cheaper and more easy of manufacture, less liable to become choked by dust and dirt, whereby it would become inoperative. Thus I am enabled to produce an article cheaper, more durable, and tasteful in its appearance, and less liable to get out of order.

I believe I have shown the nature, construction, and advantage of this improvement, so as to enable others skilled to make and use the same.

What I claim, therefore, and desire to secure by Letters Patent, is—

As a new improved article of manufacture—viz., the arrangement of the spring *d*, fitted and secured in a recess in the outside of the heel of the hook *a*, for the purpose of operating the latch *b*, substantially in the manner and for the purpose described.

NORMAN NORTH.

Witnesses:

HENRY S. WHITE,  
BARTLETT BENT, Jr.