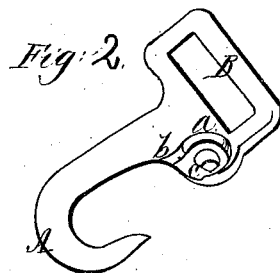
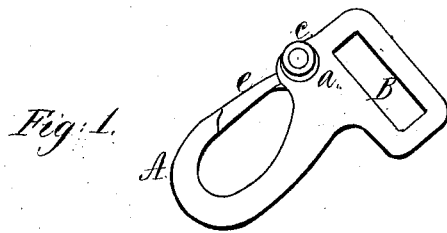


*C. B. Bristol,*  
*Snap Hook,*  
*Nº 55,050, Patented May 29, 1866.*



*Witnesses:*

*Anson Munson*  
*R. Fitzgerald*

*Inventor:*

*Chas. B. Bristol.*

# UNITED STATES PATENT OFFICE.

CHARLES B. BRISTOL, OF NEW HAVEN, CONNECTICUT.

## IMPROVED SNAP-HOOK.

Specification forming part of Letters Patent No. **55,050**, dated May 29, 1866.

*To all whom it may concern:*

Be it known that I, CHARLES B. BRISTOL, of the city and county of New Haven, in the State of Connecticut, have invented a new and useful Improvement in Harness Hooks or Snaps as a new article of manufacture; and I do hereby declare that the following is a full, clear, and exact description of the construction, character, and operation of the same, reference being had to the accompanying drawings, which make part of this specification, in which—

Figure 1 is a perspective view of the hook or snap complete as ready for use. Fig. 2 is a perspective view of the hook and loop part as it is cast ready to receive the tongue, &c. Fig. 3 is a perspective view of the tongue as it is cast and of the spring when it is dropped on ready to be attached to the hook part. Fig. 4 is a perspective view of the spring detached.

My improvement consists in having the stud which constitutes the joint-pin of the parts cast upon the rear end of the tongue in such a manner that it will receive and sustain the spring and serve as a complete fulcrum, while the recess in the hook part will receive the spring and allow it free space to work, and enable me to cast the hook part without the use of a core and without the necessity of bending or warping, as has been heretofore practiced.

I make the hook A and loop B of malleable cast-iron or any other suitable material, substantially in the form shown in Figs. 1 and 2, with a suitable recess or space on one side, as shown at *a*, Fig. 2, to receive the spring Fig. 4 and to form a proper rest or support for one end of the spring when in use, as indicated at *b*, Fig. 2, and a proper pivot-hole, as indicated

at *c*, Figs. 1 and 2, to receive the stud or joint pin *d*, Fig. 3, as indicated at *d*, Fig. 1; and I make the loop part B in the same plane with the hook A, as shown in Figs. 1 and 2, all of which enables me to cast it without using a core and to finish it without bending or warping.

I make the tongue *e* and the joint pin or stud *d* of malleable cast-iron or any other suitable material, in one piece, as shown in Fig. 3 and in part in Fig. 1, where the snap is shown complete.

I make the spring of a simple coil of elastic wire, as shown in Fig. 4, of a suitable size to be dropped onto the joint-pin *d*, as shown at *g*, Fig. 3, and having the two ends project, as shown, so that one will press on a portion of the tongue, as shown in Fig. 3, while the other end will press on the portion *b* of the hook, as shown in Fig. 2.

Having made the parts as before described, I place the spring Fig. 4 onto the joint pin or stud *d*, as shown at *g*, Fig. 3, invert the tongue *e*, pass the joint-pin *d* through the hole *e*, Fig. 2, and set or rivet it in, when the whole will be as represented in Fig. 1, and will be ready to be attached to a strap for use.

What I claim as my invention, and desire to secure by Letters Patent as a new article of manufacture, is—

The hook and loop part A and B, cast on a plane, in combination with the tongue *e* and spring *g*, when the parts are constructed, attached, and fitted for use substantially as herein described.

CHAS. B. BRISTOL.

Witnesses:

ANSON MUNSON,  
R. FITZGERALD.