

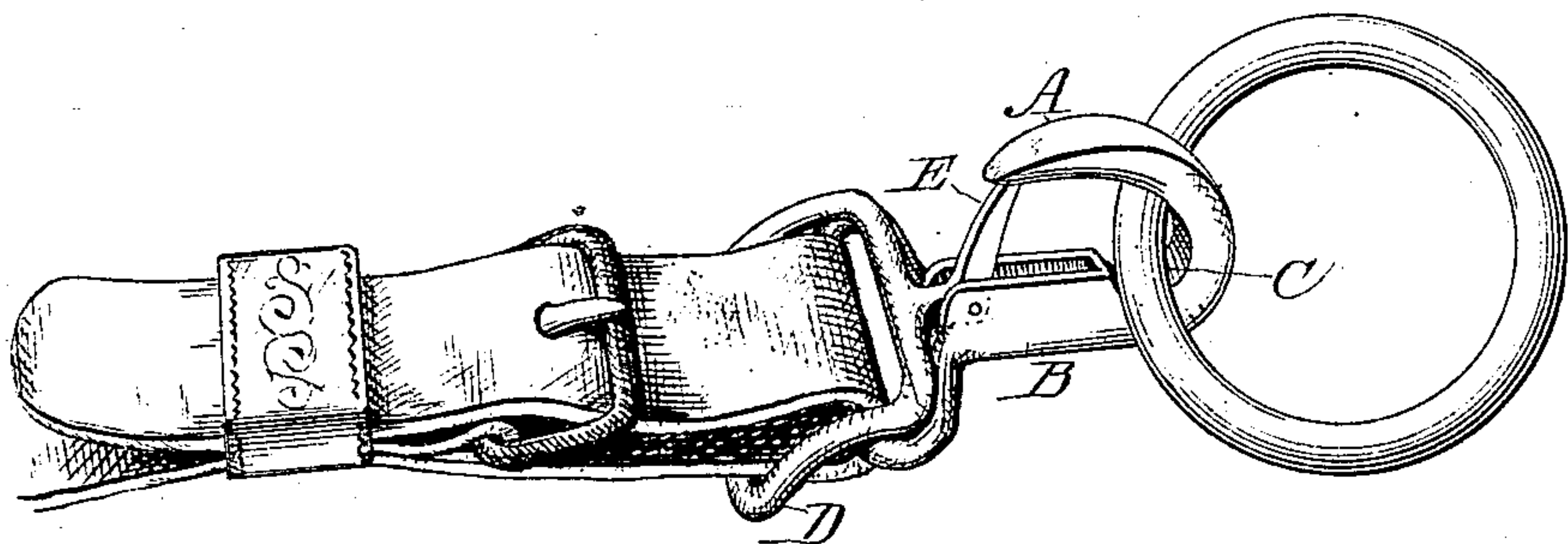
(No Model.)

W. COLLINS & C. F. PENNIMAN.  
Snap Hook.

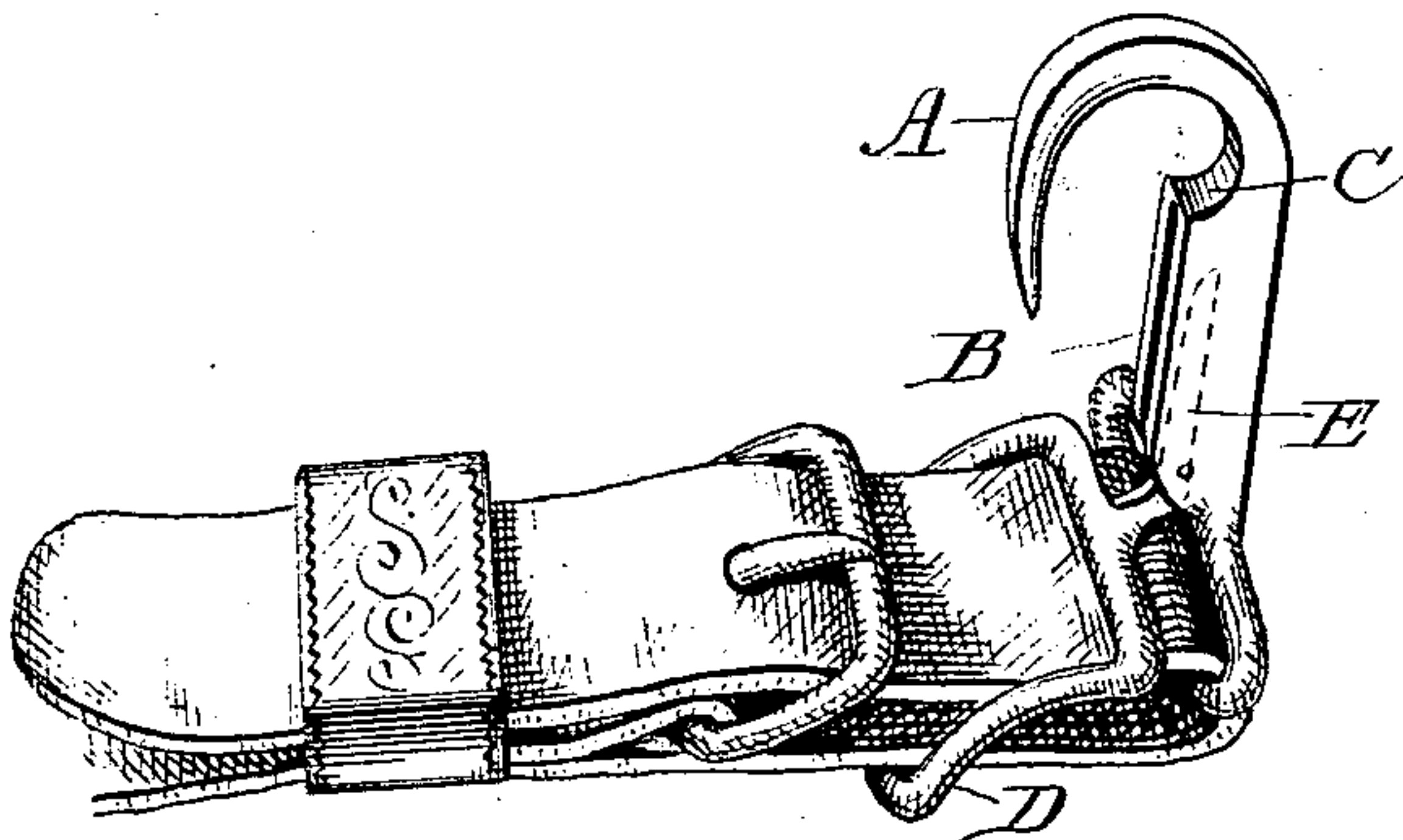
No. 235,072.

Patented Dec. 7, 1880.

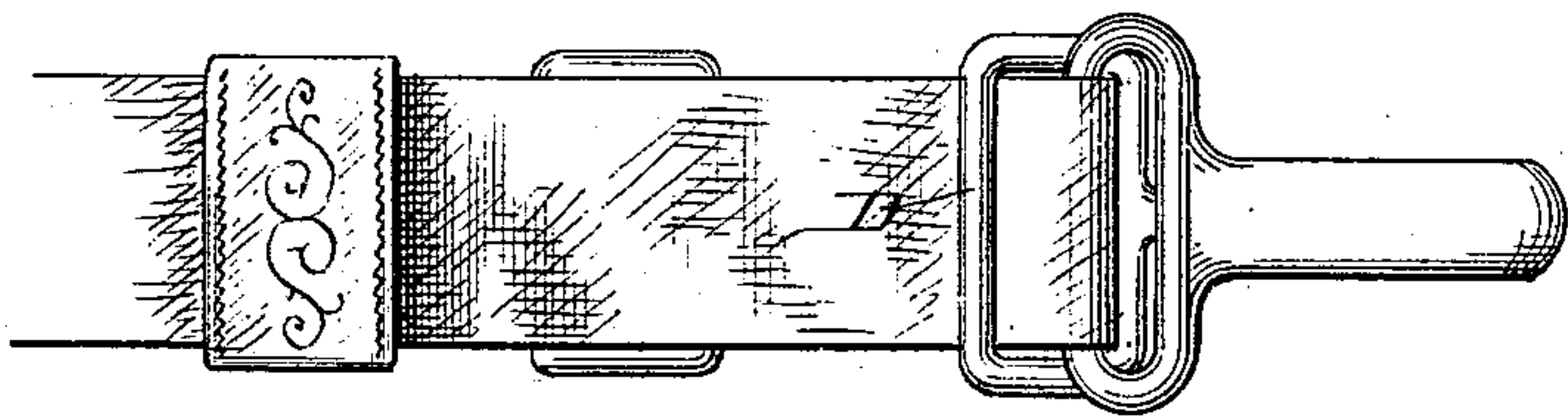
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:

*M. M. Phelps*  
*A. J. O'Brien*

Inventor:

*Warren Collins*  
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# UNITED STATES PATENT OFFICE.

WARREN COLLINS AND CHARLES F. PENNIMAN, OF JANESVILLE, WIS.

## SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 235,072, dated December 7, 1880.

Application filed September 3, 1880. (No model.)

*To all whom it may concern:*

Be it known that we, WARREN COLLINS and CHARLES F. PENNIMAN, of Janesville, in the county of Rock and State of Wisconsin, have invented a new and useful Improvement in Snap-Hooks for Harnesses, which improvement is fully set forth in the following specification and accompanying drawings, in which—

10 Figure 1 is a perspective view of the hook in a position for use; Fig. 2, a view of the same with the brake turned and the guard open; Fig. 3, of a rear plan view of the same.

Our invention relates to snap-hooks to be used upon a harness for the purpose of securing a strap or rein to an iron ring.

It consists of a hook, A, of any convenient size or shape, at the rear end of which is a slot used for the attachment of the strap or rein, which is sewed or buckled onto the same. The inside of the hook is provided with a web or guard, B, so placed as to form a detent, C, leaving a channel for the ring, at the same time preventing the ring from slipping back and also from rattling. The guard B is used, also, for the purposes of fastening to it a swinging loop, on one end of which is a spur, E, pivoted to the web or guard, and its point meeting, or nearly so, the point of the hook A, thereby closing the passage of the ring after it has been passed into the hook and when in place provided for it between the top of hook A and the guard or web B. The loop on the other end is made the same width of the loop on the rear of hook A and rests upon it, extending rearward and curved down over the rear of said hook, the harness-strap passing through said loop and attached to the hook, so that by turning the rein in an opposite direction from the hook it throws the spur back and opens the throat of the hook so that the ring will pass in and out freely.

The object of placing the loop as above described is to keep the spur E from swinging and releasing the ring.

The strap keeps the loop in its place, which controls the guard.

The handle may swing on the hinge without the loop with the guard attached.

In releasing the ring a brake is made (see Fig. 2 of the drawings) and the strain of the strap removed, so that the swinging of the loop releases the ring from guard B.

The end of loop D may be provided with a roller to roll upon the strap.

We do not claim anything on the principle of a movable guard to hold a ring into a hook, as we are aware that such a device has been patented; but we wish to secure the swinging or movable guard, which we use in four different ways, and do not confine ourselves to any particular way.

In the patent of June 8, 1880, snap-hooks, a removable guard is hinged to the point of the hook, but it has no provision for keeping it in its place when the hook falls upon its back.

Our guard is controlled by the swinging loop D and the strap or rein, which work conjointly with each other.

What we do claim, and desire to secure by Letters Patent, is—

1. In a snap-hook for harnesses, the combination of hook A, provided with guard B, with the swinging loop D, having spur E, integral therewith, pivoted to said hook, the rear end of said loop extending back and dropping down over the rear end of said hook A, so as to permit the harness-strap to pass loosely through the same, substantially as described.

2. In a snap-hook for harnesses, the combination of the swinging loop D with hook A, resting on top of and pivoted to the same and of equal width with the bow of said hook, its rear end turned over and partially encircling the same, substantially as described and claimed, and for the purposes set forth.

WARREN COLLINS.  
CHARLES F. PENNIMAN.

Witnesses:

M. M. PHELPS,  
WM. SMITH.