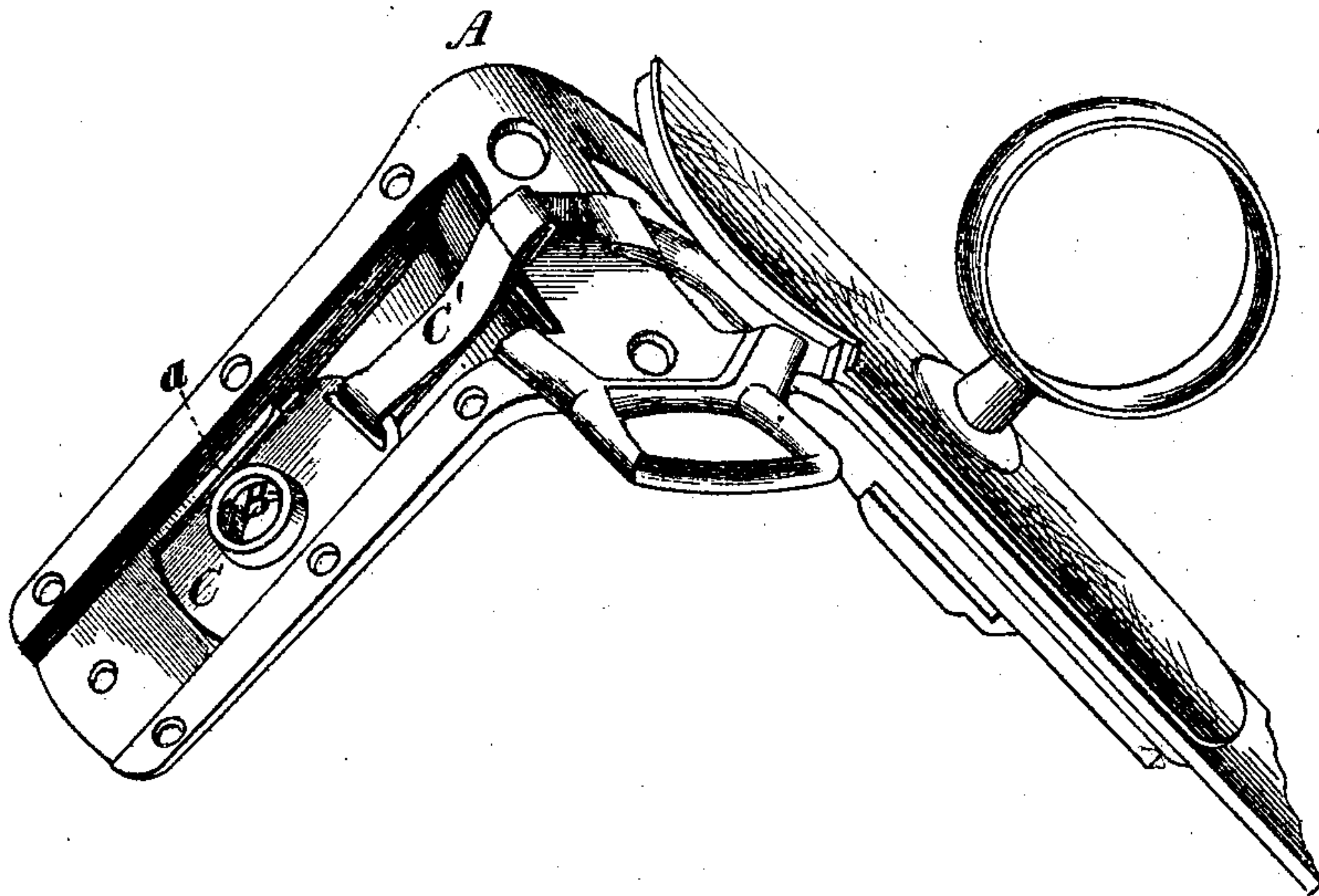


**P. BURNS.**  
**Harness-Saddles.**

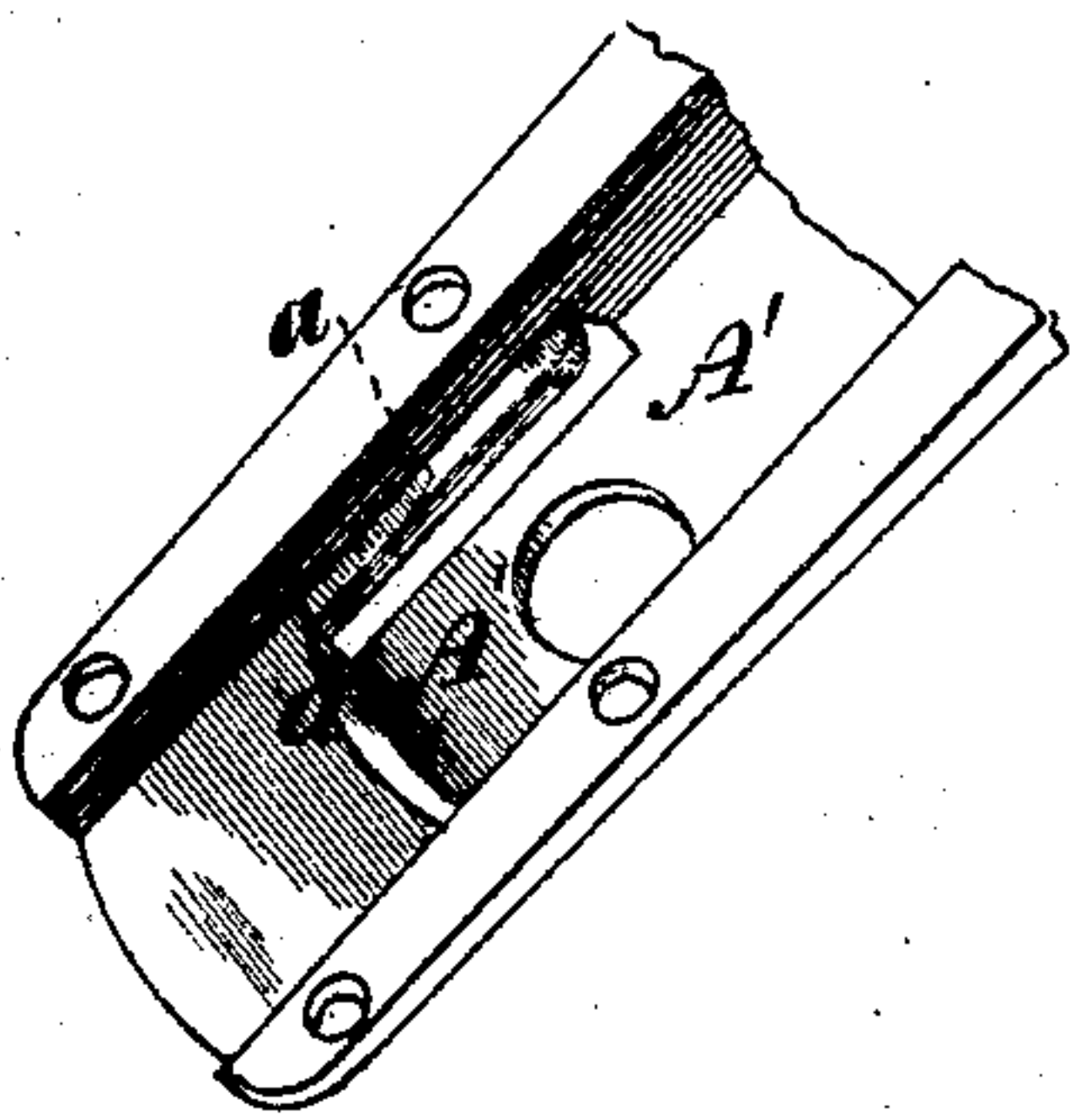
No. 147,100.

Patented Feb. 3, 1874.

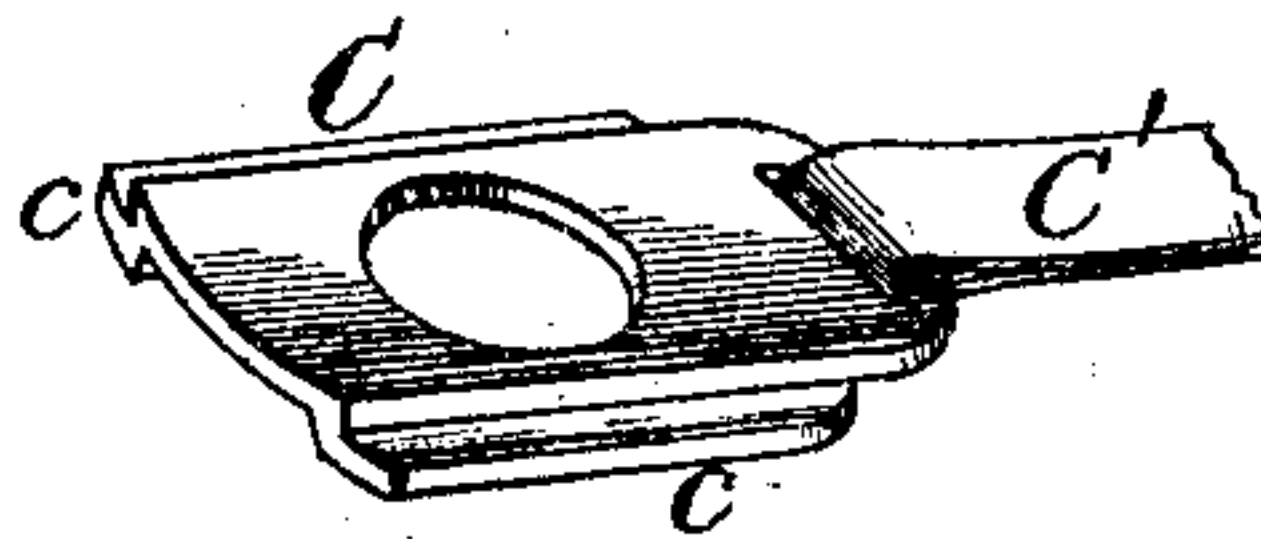
*Fig. 1.*



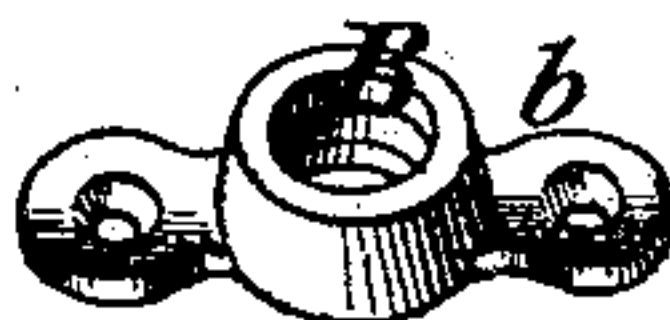
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses.*  
*A. Ruppert.*  
*H. E. Quinn*

*Peter Burns*  
*Inventor.*  
*By A. J. C. C. C.*  
*his atty*



# UNITED STATES PATENT OFFICE.

PETER BURNS, OF SYRACUSE, NEW YORK.

## IMPROVEMENT IN HARNESS-SADDLES.

Specification forming part of Letters Patent No. 147,100, dated February 3, 1874; application filed January 9, 1874.

*To all whom it may concern:*

Be it known that I, PETER BURNS, of Syracuse, in the county of Onondaga and State of New York, have invented a certain Improvement in Harness-Pads, of which the following is a specification:

The nature of my invention consists in the use, for harness saddles and pads, of readily-removable terret-nuts, to enable the harness maker or dealer, in trimming such saddles or pads, to adapt them for the reception of different kinds of terrets by suitably changing the nuts to correspond, such removable terret-nuts being held in place through the medium of a flanged plate, which enters a recess in the pad-plate, and hooks with its flanges under overhanging lips of the latter, whereby firm bearings are provided for the nut and its plate or frame upon both sides. This combination enables me to use the common terret-nuts now in the market. The upper end of the recess for the reception of the nut and its confining-frame merges into what is termed the "valley" of the pad-plate, which valley runs out to the surface at the crotch, so that, on lifting off the saddle-seat or leather covering, the nut and its frame can be removed and another nut placed in the frame for insertion in the pad. To facilitate this removal and reinsertion of the nut and its frame, the latter is provided with an arm or stiff strap, reaching, with its outer end, to the top of the crotch, where it may be manipulated on removal of the saddle-seat or leather covering.

In the annexed drawings, Figure 1 is a perspective view of a harness-saddle, the seat and the terret and leather covering on one side having been removed to show clearly my improvement. Fig. 2 is a perspective view of one end of the crotch or pad-plate. Fig. 3 is a perspective view of the nut-frame. Fig. 4 is a perspective view of the nut.

The same letters of reference are used in all the figures in the designation of identical parts.

The crotch or pad-plate A is of ordinary construction in general outline, except that a re-

cess, A', is formed in the valley for the reception and retention of the nut B and its confining plate or frame C. This recess has an abrupt shoulder, a', at its lower end, but gradually merges into the valley at its upper end, and the valley itself runs out to the surface near the top of the crotch, as clearly illustrated. Overhanging lips a a, flush with the bottom of the valley at the lower end of the pad-plate, extend some distance along each side of the recess A', under which the flanges c of nut-frame C enter, and which afford a firm support thereto on top, while the bottom of the recess gives support to the under side of the nut B, the flanges b of which are confined between such bottom and the main body of the frame C, which is elevated above its flanges c to a height equal to the thickness of the flanges of the nut. The body of the nut passes up through an aperture in the nut-frame, as clearly shown, and an aperture is also formed in the bottom of the recess, directly under the nut, so that the shank of the terret can pass through, if long. The upper end of the nut-frame is provided with a strap, C', reaching to the top of the crotch, for the purpose above stated. Instead of the strap, an arm may be formed on the frame to serve the same purpose.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The pad-plate A, having a recess, A', and overhanging lips a, in combination with the terret-nut B and the removable confining-frame C, substantially as and for the purpose specified.

2. The removable nut-frame C, provided with the arm or strap C', substantially as and for the purpose specified.

In testimony whereof I have signed my name to the foregoing specification in the presence of two subscribing witnesses.

PETER BURNS.

Witnesses:

M. W. HANCHETT,  
E. W. PARMELEE.