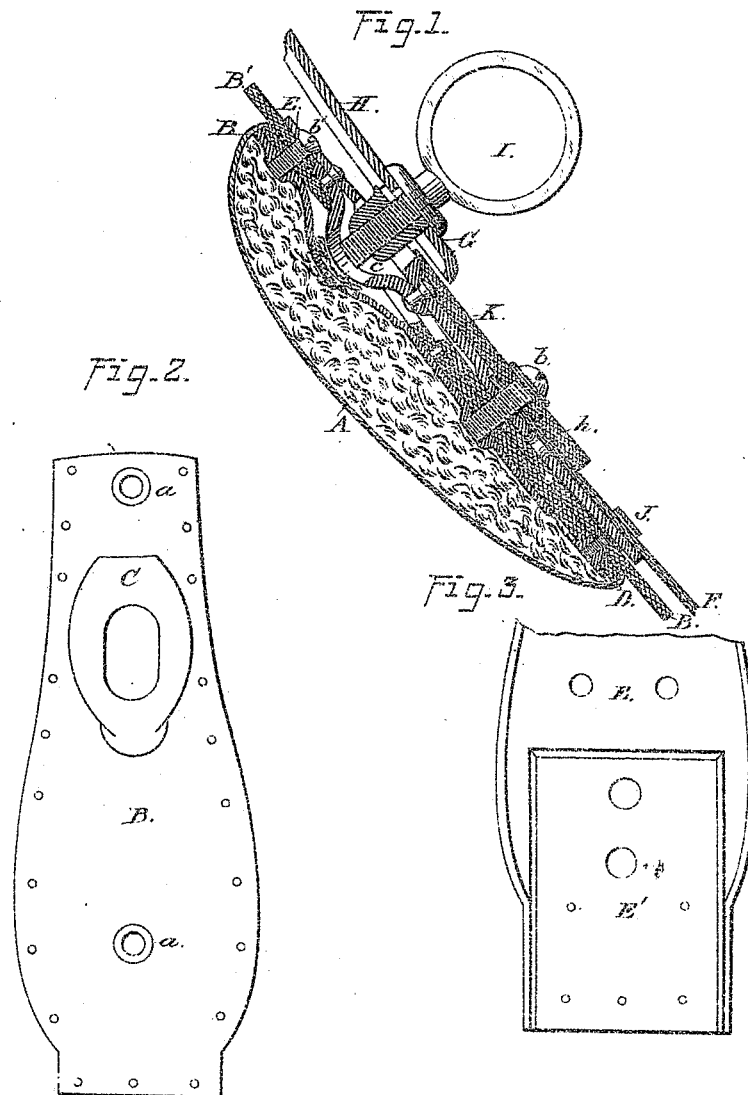


P. BURNS.
Harness-Saddles.

No. 214,020.

Patented April 8, 1879.



WITNESSES:
Jas. B. Hutchinson.
W. W. Pardee

INVENTOR.
Peter Burns.

UNITED STATES PATENT OFFICE

PETER BURNS, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN HARNESS-SADDLES.

Specification forming part of Letters Patent No. 214,020, dated April 8, 1879; application filed March 3, 1879.

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 new and useful Improvement in Harness-Saddles, of which the following is a specification:

The invention relates specially to certain details of construction in the pad and its combination with the tree and mountings, as will be hereinafter fully set forth.

Referring to the drawings, Figure 1 is a vertical section of the pad, showing one side of the yoke or bridge secured to the terret-ring nut. Fig. 2 is the metal plate for the pad; and Fig. 3 is the end of the flanged tree or plate, showing the recess or depression for the back-strap.

Like letters of reference indicate corresponding parts.

A is the pad. B is the pad-iron, of peculiar construction, and which embraces the chief feature of my invention.

The plate is provided with a depression or recess, which, when the parts are properly adjusted, comes immediately underneath the shank-screw of the terret-ring, and prevents the contact of the shank with the filling of the pad. The plate B is shown separately in Fig. 2, with recess C, and is screw-tapped at *a*, to receive the screws which unite the pad with the tree or plate and other parts of the saddle. The plate is also perforated around its edge to receive the nails or rivets which secure the internal covering-leather, D, and also the material which is used to cover the pad.

B' is the housing, and J is a transverse loop, provided with a screw-threaded shank, secured to a nut on the under side of the leather D.

The tree or plate E is provided with upwardly-projecting side flanges, which extend from the nut which receives the terret-screw to the end of the plate; and it is formed with a depression or recess, E', at its outer end to receive the end of the back-strap F. The plate E has also an aperture and lugs for the nut G, which is secured to it. The shank of the terret-screw is secured by this nut, and the yoke H is also adjustably connected to this nut. The plate is perforated on each side of the terret-screw, and tapped for the reception of

the screws *b b'*, which unite the various parts composing the saddle. A downwardly-curved metallic piece, *c*, which corresponds with the recess in the metallic pad-plate B, is riveted or otherwise secured on the under side of the plate E, and fits into the depression in the pad-plate. An additional aperture, *h*, may be made in the plate, if desired, for the adjustment of the back-strap by means of the screw *b*.

F is the back-strap, and K is an outer or finishing leather, which is applied between the flanges on the plate E.

With a pad having the construction as herebefore described, with its metal plate and housing, and having the loop J secured thereto, to assemble the different parts of the saddle, the plate E, with the curved plate *c* and terret-nut attached thereto, is applied to the pad; the back-strap is inserted through the loop J and rests in the recess in the end of the plate E; the outer leather, K, is placed between the flanges in the plate; the yoke is secured over the nut G, the terret-screw I inserted, and all the parts are secured permanently by means of the screws *b b'*. In some cases I dispense with the housing B', as it is evident that a saddle might be readily made without it.

In harness-saddles, with an adjustable yoke or bridge, as hitherto constructed, the terret-shank has displaced the filling of the pad, and thus not only rendered it uncomfortable to the animal, but made it unsightly, and the covering of the pad was rapidly worn out, and frequently had to be replaced by an entirely new one.

I am aware that it is not new, broadly, to construct a harness-saddle with an adjustable yoke, nor with an outer metallic plate or tree having side flanges, nor to construct such plate with a recess for the back-strap; but

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

1. In a harness-saddle, a pad provided with the metallic plate B, having the depression or recess C, and secured to the pad, substantially as and for the purpose specified.

2. In a harness-saddle, the combination of the pad provided with the metallic plate B, having the depression or recess C, the hous-

ing B', the plate or tree E, with side flanges and recess E', the yoke H, terret-ring I, with its nut G, and back-strap F, all constructed substantially as shown and described.

3. In a harness-saddle, the pad provided with the metallic plate B, having recess C, the housing B', the plate or tree E, with side flanges and recess E', the yoke H, terret-

ring I, with its nut G, back-strap F, loop J, and outer leather, K, constructed and combined substantially as and for the purpose specified.

PETER BURNS.

Witnesses:

FRED FRASER,
W. F. PARDEE.