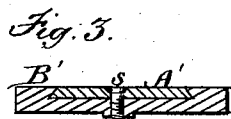
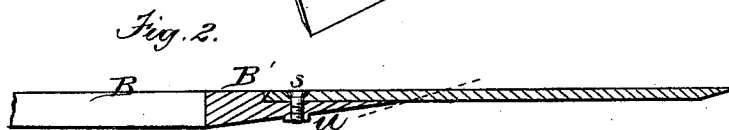
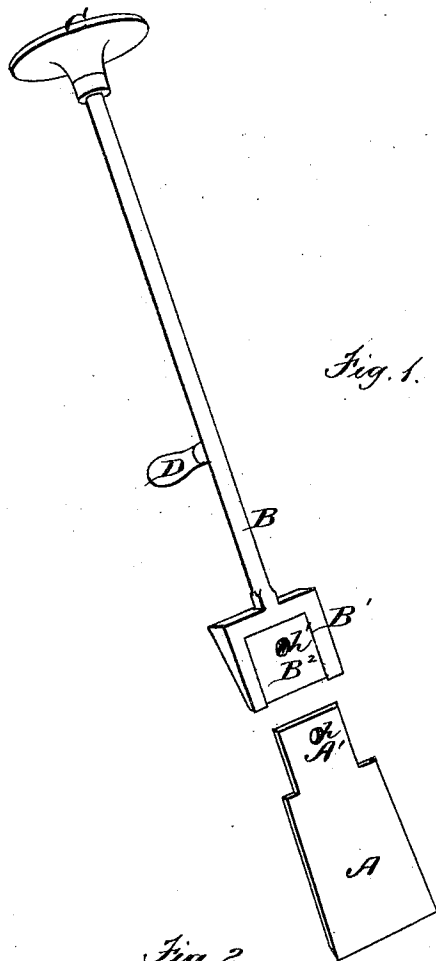


J. W. GORDON & G. F. SLEEPER.

FARRIERS' BUTTRESS.

No. 178,627.

Patented June 13, 1876.



Witnesses.

A. E. Denison
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Inventors.

J. W. Gordon.

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by their Attys

Canold & Wright & Brown

UNITED STATES PATENT OFFICE.

JAMES W. GORDON AND GEORGE F. SLEEPER, OF HAVERHILL, MASS.

IMPROVEMENT IN FARRIERS' BUTTRESSES.

Specification forming part of Letters Patent No. 178,627, dated June 13, 1876; application filed January 17, 1876.

To all whom it may concern:

Be it known that we, JAMES W. GORDON and GEORGE F. SLEEPER, of Haverhill, in the county of Essex and State of Massachusetts, have invented certain Improvements in Farriers' Buttresses, of which the following is a specification:

In the accompanying drawing, forming a part of this specification, Figure 1 represents a perspective view of our invention with the parts disconnected. Fig. 2 represents a longitudinal section of the same, and Fig. 3 a transverse section.

This invention relates to that class of farriers' paring-tools or buttresses which are provided with a blade adapted to be detached from the handle or shank and replaced by another blade.

The object of our invention is to improve the construction of a farrier's buttress of the above-named class in such manner as to enable the blade to be securely held in the handle when in use, and advantageously operated until worn up to the end of the shank.

To this end our invention consists in the peculiar construction of the buttress, which we will now proceed to describe, and point out in our claim.

In the drawings, A represents the blade of a buttress or hoof-paring tool, and B represents the shank or handle of the same, which is of sufficient length to enable the operator to bear upon its upper end with his shoulder when cutting a hoof with the blade, the shank being provided with a suitable head or rest, C, on its end, and a handle or offset, D, between the head C and blade A, which handle the operator grasps in guiding the implement. We provide the lower end of the shank with an enlargement, B¹, in one side of which is formed a dovetail socket, B². The rear end A' of the blade A is so formed as to fit snugly into the dovetail socket B¹, its end and edges having a bevel the obverse of that of the sides and end of the socket, as shown in Figs. 2 and 3. The end A' of the blade is adapted to slide into the socket B¹ with sufficient ease for all practical purposes, and when inserted is held in place by the dovetail socket, and can only be removed by sliding it out of the socket. The blade A and enlargement B¹ are provided

with screw or bolt holes *h h'*, which coincide when the blade is properly inserted in the socket, and into these holes a screw, *s*, is inserted, which prevents the blade from being moved longitudinally. The under side *u* of the enlargement B¹ is beveled from its rear to its front end, as shown in Fig. 2, the front end under the blade A being brought to a knife-edge.

By this construction we avoid the formation of an obstructing angle or projection under the blade, and enable the blade to be used until worn nearly or quite up to the end of the shank, as shown by dotted lines, Fig. 2.

We are aware that it is not new to make the blade of a buttress detachable from the shank; but we are not aware that a shank having a dovetail socket adapted to receive the dovetail end of the blade, and beveled on its under side, so as to enable the blade to be used until worn entirely up to the end of the shank, has ever been employed.

These features are of great importance, the dovetail socket affording a secure means of holding the blade, its inner end forming an abutment for the blade, and preventing it from working loose, as would be the case if only a screw was employed, while the beveled under side, having about the same bevel as that of the cutting-edge of the blade, and tapering to a knife-edge at its end, offers no obstruction to the advantageous operation of the blade when the latter is worn close up to the end of the shank.

We claim as our invention—

The shank B, having at one end an enlargement, B¹, which is beveled on one side, and provided with a dovetail socket, B², on the other side, combined with the blade A, having the dovetail end A', adapted to fit into the dovetail recess of the shank, all substantially as described, for the purposes specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JAMES W. GORDON.
GEORGE F. SLEEPER.

Witnesses:

SAML. M. BARTON,
C. F. BROWN.