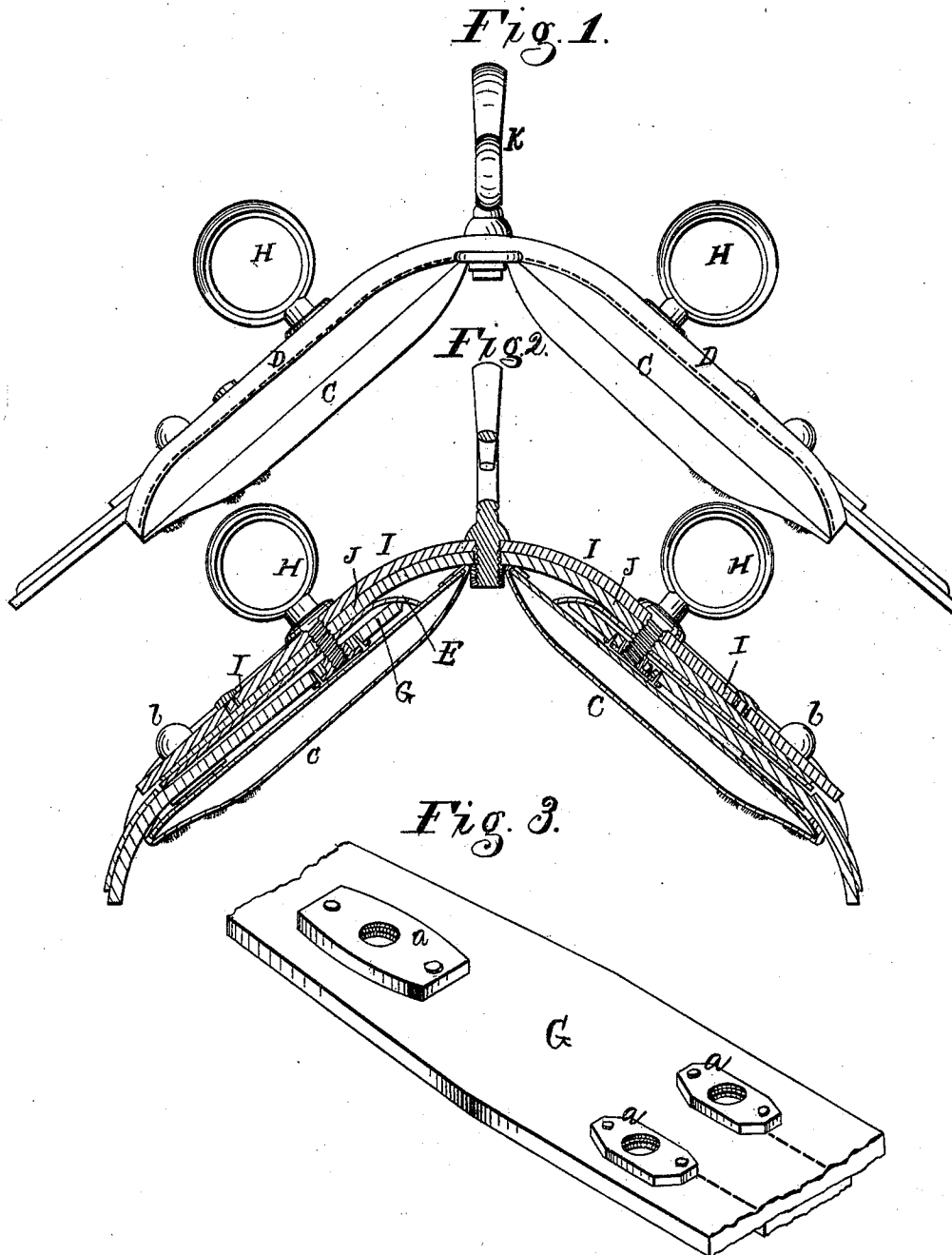


W. H. BULKLEY.
HARNESS-PADS.

No. 179,999.

Patented July 18, 1876.



WITNESSES

E. Aubrey, Foulmer
A. N. Miller

INVENTOR

William H Bulkley
By *Alexander Macdon*
Attorneys.

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Fig. 4.

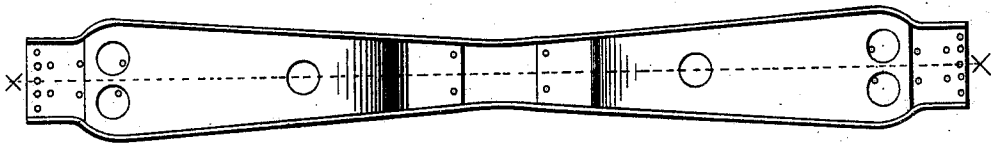
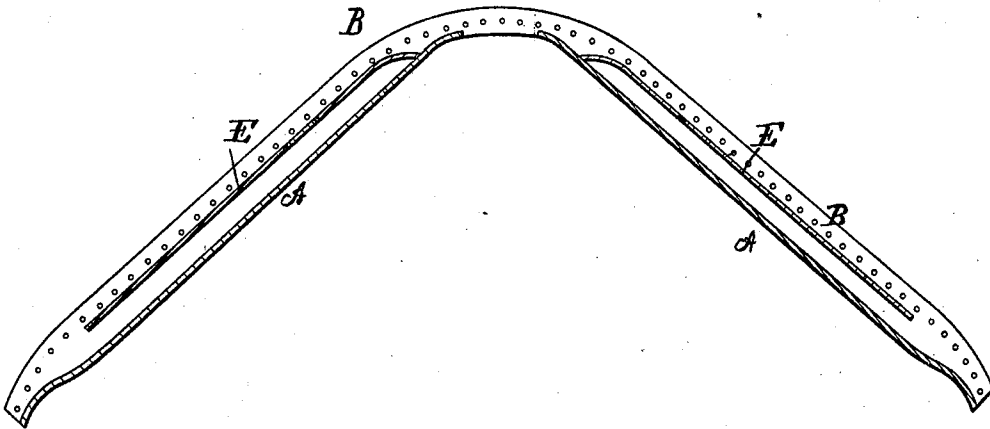


Fig. 5.



WITNESSES

H. Aubrey Toulmin
A. N. Miller

INVENTOR

William H Bulkley

By

Harold Mason
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM H. BULKLEY, OF BLOOMINGTON, ILLINOIS.

IMPROVEMENT IN HARNESS-PADS.

Specification forming part of Letters Patent No. 179,999, dated July 18, 1876; application filed May 26, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. BULKLEY, of Bloomington, in the county of McLean and in the State of Illinois, have invented certain new and useful Improvements in Harness-Pads; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a harness-saddle, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a front view of my harness-saddle. Fig. 2 is a longitudinal section of the same. Fig. 3 shows a bottom view of part of the skirt. Fig. 4 is a plan view of the metal foundation of the saddle. Fig. 5 is a longitudinal section of the same.

A represents the metal foundation of the saddle, made substantially in the form shown, and provided along both edges with upwardly-projecting flanges B B, which are perforated as shown in Fig. 5. The covering of this foundation is formed of a bottom piece, C, with welt D sewed to each edge thereof, preparatory to its being stitched to the metal foundation A. The bottom piece C is stitched to the metal foundation A through the perforations in the side flanges B, and the welt is then turned over and pasted to said side flanges.

In the foundation A, on each side, is a stationary plate, E, attached to the side flanges B B, forming a chamber between it and the bottom of the foundation, in which the upper end of the skirt G is inserted. The skirt G is provided with flanged nuts *a a*, riveted thereto, as shown in Fig. 3, for the fastening of the terret H and the pad-screws *b b*, said terret and pad-screws passing through the top piece I and pad-iron J. In case of wear

or destruction of either skirt or burrs they can easily be removed and repaired, or new ones inserted. This is also the case with the pad-iron and top piece, all the parts being separate and readily detachable from each other. The pad-iron J extends over the center and down both sides, between the side flanges B B, and the top piece I fits in like manner between said side flanges, all fastened together by the terrets and pad-screws. K is the ordinary check-rein hook passed through the center of the saddle and fastened by a burr, *d*, underneath.

By this construction of the saddle any part can be renewed, and the whole can be opened and worked upon without tearing or cutting to pieces, as is now generally the case. The entire saddle can be made easier and cheaper than those now in use.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the metal foundation A, having a recess or chamber on each side, and terrets H, the detachable skirts G inserted in said chambers, and provided with the permanently-attached burrs *a*, all substantially as and for the purposes herein set forth.

2. The metal foundation A, provided with perforated side flanges B B, and interior plates E E, substantially as and for the purposes herein set forth.

3. The combination of the metal foundation A, having perforated side flanges B B and interior plates E E, the covering C D, skirts G, with burrs *a*, pad-iron J, and top piece I, all made separate and attached together substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of April, 1876.

WILLIAM H. BULKLEY.

Witnesses:

THOS. SLADE,

SYLVESTER BRADLEY.