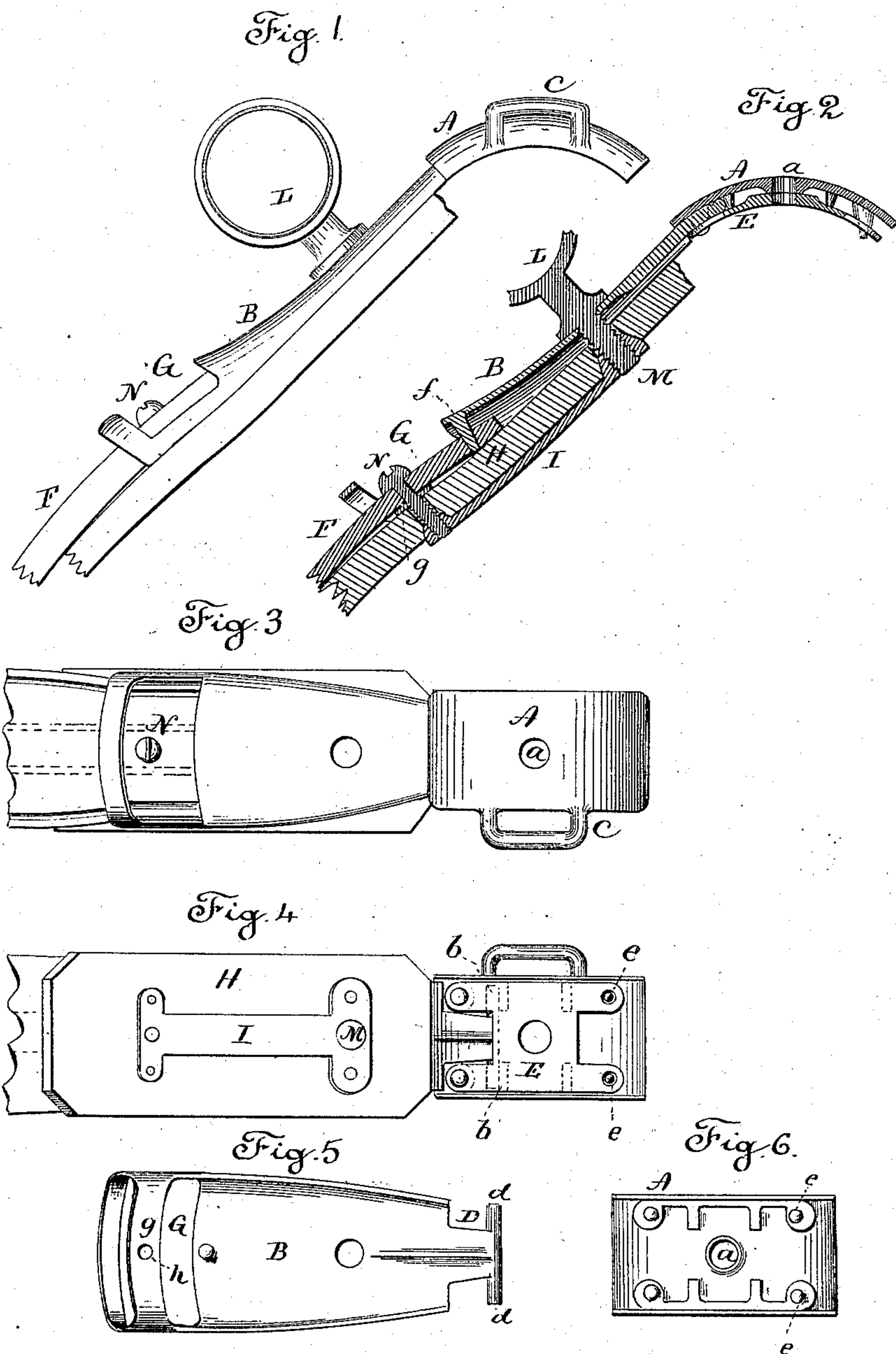


(No Model.)

J. THOMAS.
HARNESS SADDLE.

No. 335,161.

Patented Feb. 2, 1886.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN THOMAS, OF CEDAR RAPIDS, IOWA.

HARNESS-SADDLE.

SPECIFICATION forming part of Letters Patent No. 335,161, dated February 2, 1886.

Application filed November 23, 1885. Serial No. 183,587. (No model.)

To all whom it may concern:

Be it known that I, JOHN THOMAS, of Cedar Rapids, in the county of Linn and State of Iowa, have invented a new Improvement in Harness-Saddles; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of the saddle-tree plate and one jockey, the second jockey not shown, as it is a duplicate of the one shown; Fig. 2, a vertical central section of the same; Fig. 3, a top view of the same; Fig. 4, an under side view of the same; Fig. 5, an under side view of the jockey detached; Fig. 6, an under side view of the tree-plate with the plate E removed.

This invention relates to an improvement in that part of a harness for horses commonly called the "pad," and relates particularly to that class in which the side piece or jockey is made from metal without covering, the object of the invention being to employ the invention for which Letters Patent No. 249,693 were granted to me November 15, 1881—that is to say, to hinge the jockeys or side pieces to the pad-plate; and the invention consists in the construction as hereinafter described, and more particularly recited in the claims.

A represents the saddle-tree plate; B, the side piece or jockey, one side only shown, both sides being alike. The pad-plate is constructed with a central opening, *a*, through which the water-hook is secured to the plate, and also provided with the usual back-strap loop, C. On the under side the plate A is constructed with cavities *b b*, adapted to receive trunnions on the end of the side piece. The side piece, B, is constructed with an extension, D, at its upper end to pass beneath or within the plate A, and at its extreme end is constructed with transverse trunnions *d*, corresponding to the cavities *b* in the plate A, and so as to set therein, and when so placed in the cavities an under plate, E, is applied, which covers the trunnions and secures them in place, yet leaves the side pieces free, so as to turn upon the trunnions as a hinge, thereby making a joint between the side pieces and the pad-plate, as

in my patent before referred to. The plate E is secured to the tree-plate A by studs *e*, formed on the tree-plate, which extend through corresponding holes in the plate E, so that when the two parts are set together the stays may be riveted down, as indicated at the left in Fig. 4.

The side plate extends from the joint, gradually increasing in width from its upper end and outward. It is recessed upon the under side, and so that the upper end of the skirt F may extend up into the recess in the under side of the side piece, B, as seen in Figs. 1 and 2.

Near the lower end an opening, G, is made in the plate, which exposes a portion of the skirt, as seen in Fig. 3. Above the opening G, and upon the under side, is an inwardly-projecting spur or hook, *f*, which engages in a corresponding hole in the upper end of the skirt, and as seen in Fig. 2, so as to make a firm engagement between the skirt and the side pieces.

Across the under side of the recess in the side piece, and under the opening G, is a bar, *g*, over which the skirt F passes into the recess in the side piece. Upon the under side of the skirt and side piece a strong piece of leather, H, or other suitable material, which I term a "clip-piece," is introduced, and upon the under side of this clip-piece H a clip, I, is applied, as seen in Fig. 4. Near the upper end of the side piece, B, a hole is made, through which the terret L may be set, the shank end M of the terret screw-threaded and the clip I correspondingly screw-threaded to receive that shank, and so that the terret introduced and screwed to a bearing clamps the side piece and clip with the clip-piece firmly together.

In the opening G in the side piece a pad-screw, N, is introduced through the skirt F, through a corresponding hole, *h*, in the bar *g*, and through and the clip-piece H is screwed into that end of the clip which is prepared to receive the screw. Thus prepared the jockey is lined or cushioned in the usual manner.

By this construction the jockeys are self-adjusting to the back of the horse, as in my patent before referred to, and yet present as neat and finished an appearance as in harness where the jockeys are rigidly fixed and made in one and the same piece.

I claim—

1. The herein-described improvement in harness-saddles, consisting of the saddle-tree plate A, constructed upon its under side near each end with cavities *b b*, combined with the side pieces or jockeys, B, each constructed at its upper end to enter beneath the plate, and with trunnions *d d*, corresponding to the cavities *b* in the plate, and an underlying plate, E, arranged upon the under side of the plate A and secured over said trunnions, and whereby said side pieces are hinged to the tree-plate, the said side pieces constructed with a recess upon their under side and with an opening, G, through into said recess, and also constructed with the bar *g* across said recess under said opening, the said piece also constructed with an inwardly-projecting spur, *f*, above said opening, and substantially as described.

2. The combination of the saddle-tree plate A, the jockeys B, hinged thereto, each constructed with a recess upon its under side and with an opening, G, into said recess near the lower end, and also constructed with an inwardly-projecting spur, *f*, above said opening, the clip-piece H, and the clip I, with the terret L through said side piece and clip-piece into said clip, and with the pad-screw N through said recess, skirt, and clip-piece into that end of the clip, substantially as described.

JOHN THOMAS.

Witnesses:

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