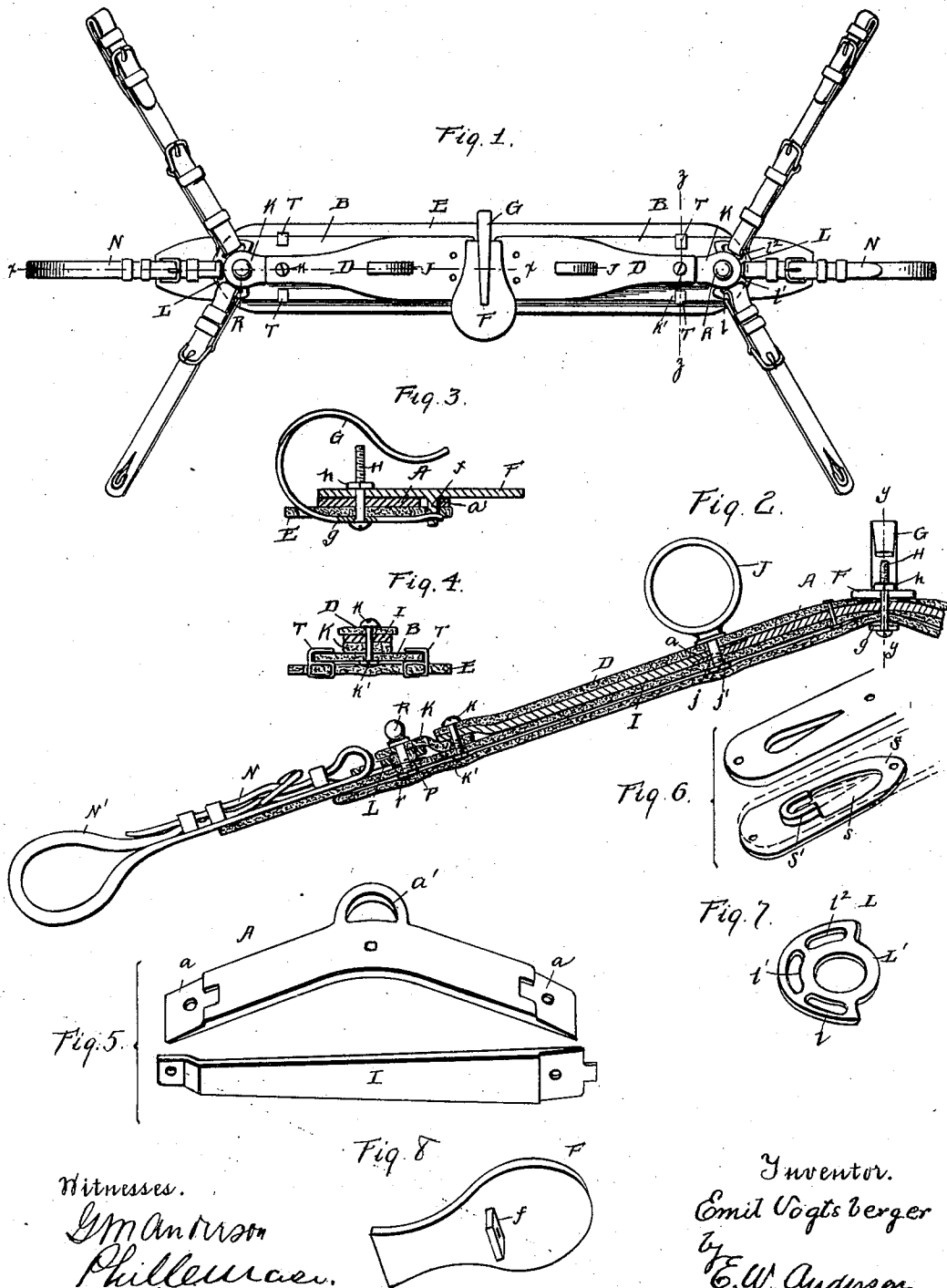


(No Model.)

E. VOGTSBERGER.
HARNESS AND SADDLE.

No. 578,173.

Patented Mar. 2, 1897.



Witnesses.

G. M. Anderson
Philleaer.

Inventor.
Emil Vogtsberger
by E. W. Anderson
Attorney.

UNITED STATES PATENT OFFICE.

EMIL VOGTSBERGER, OF AUSTIN, TEXAS.

HARNESS AND SADDLE.

SPECIFICATION forming part of Letters Patent No. 578,173, dated March 2, 1897.

Application filed June 24, 1896. Serial No. 596,794. (No model.)

To all whom it may concern:

Be it known that I, EMIL VOGTSBERGER, a citizen of the United States, and a resident of Austin, in the county of Travis and State of Texas, have invented certain new and useful Improvements in Harness and Saddles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a plan view of invention. Fig. 2 is a section on the line *xx*, Fig. 1. Fig. 3 is a section on line *yy*, Fig. 2. Fig. 4 is a section on the line *zz*, Fig. 1. Fig. 5 illustrates crown-piece and one of pieces *I*. Fig. 6 illustrates metallic trace-eye and its attachment to trace. Fig. 7 is a perspective view of triple-loop piece. Fig. 8 is a perspective view of small saddle.

This invention has relation to harness, and more particularly to saddles and the adjuncts thereof, and is designed to provide an improved construction thereof wherein the several parts are united in a secure but detachable manner and which possesses certain other advantages, which will hereinafter appear.

With these objects in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter *A* designates the center or crown piece of the saddle, which consists of a bent malleable-iron-plate casting, whose end portions are rabbeted and beveled on the upper surface, as indicated at *a*, and which has a rearwardly-extending loop *a'* at its central portion.

B B are the skirts of the saddle, *D D* the facing-pieces or jockeys, and *E* the pad.

F is a small saddle, which is a casting, and *G* is the water-hook.

H is a central screw, which extends up through the arm *g* of the water-hook, the pad, the lapped upper end portions of the skirts, the casting *A*, the facing-pieces, and the small

saddle, being secured at its upper end by a removable nut *h*. The small saddle is also secured by a lug *f*, which extends through the loop *a'* of the casting *A* and through the pad, and which has a slot or opening which receives the arm *g* of the water-hook. The said hook is formed of two pieces, the upper portion or hook proper consisting of a bent steel spring. The lower portion consists of the arm *g*, which extends through and underneath the pad and receives the screw *H*, as above described. The forward end of said arm is curved upwardly to meet the spring portion, and its rear end portion, which engages the lug *f*, above referred to, is hooked, as indicated at *b'*. The screw *H* is extended above its nut to meet the spring-arm of the water-hook.

I I are two short flat pieces of spring-steel which are placed, one at each side portion of the saddle, between the skirt and the top jockey or facing. The upper end portions of these pieces are seated upon the respective rabbeted portions of the casting *A* and are secured by the screws *j* of the terrets *J*, which extend through the jockeys or facings, the said springs, the castings, the skirts, and are secured by nuts *j'*. The lower end portion of the springs seat upon clips *K* and are secured by means of screws *k'*, which pass through the lower end portion of the jockeys, the said springs and clips, and the skirts, and are secured by means of nuts *k'*.

L L are triple-loop pieces, one at each side, preferably of malleable iron, having each an opening at *l* for the attachment of the trace *M*, an opening at *l'* for the attachment of the bearing-strap and shaft-tug *N*, and a third opening at *l''* to receive the pull-back strap *O*. All three of these straps have a detachable connection with the said loop-piece. Each loop-piece has also a tongue or shank portion *L'*, which extends underneath the clip or loop holder *K* at that side and has a loose bearing upon a circular washer *P*. This washer may be of leather and should be thicker by about one-eighth of an inch than the said tongue or shank portion in order to give the loop-piece a free bearing and to prevent wear.

R is a headed screw which passes through each clip, washer, and skirt and engages the nut *r* on the under side of the skirt.

The shaft-tug N has a heavy loop N', of solid leather.

S is a metallic trace-eye, which is riveted to the under side of the trace. Said eye is cut away at s and is formed with a raised flanged portion S', which extends into the rear portion of the eye in the trace and forms a bushing therefor. The opening at s adapts the eye for use with wooden singletrees, over the end of which the trace is engaged, while the bushed portion of the eye is adapted for connection with the various metallic hooks or pins with which singletrees are often provided. The traces can therefore be connected to any singletree.

T T designate malleable-iron clips or half-loops, which are secured to the pad, two at each side portion of the saddle, and are engaged over the lateral edge portion of the skirts to prevent the pad from slipping without interfering with the free up-and-down movement. The shanks or securing portions of these clips are split and are inserted through the pad and lapped over upon each other or clenched.

The loop-pieces L L above described, being able to play freely on their bearings, yield to every movement of the horse, giving perfect equalization of strains.

The water-hook constructed and arranged in the manner above described firmly secures the several parts of the saddle and the pad, preventing rattle, while the clips T T effectually prevent the pad shifting sidewise.

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

1. In a harness-saddle, the combination with the center casting, or crown-piece, A, the small saddle having a depending lug, the pad, and the skirt and jockey portions, of the water-hook having an arm extending through and underneath the pad and engaged with the lug of the small saddle, which lug also extends through the said pad, and the removable securing-screw, substantially as specified.

2. In a harness-saddle, the combination with the center casting, or crown-piece A, having a central loop at its rear edge, the pad, the skirt and the jockey portions, and the small saddle which has a lug extending through the said loop and through the pad, of the water-hook having an arm extending through the pad and back underneath the same into engagement with the said lug, and the upper spring portion, and the removable screw which passes through the said arm, the pad, the casting, the skirt portions, and the small saddle, and extended to meet the spring portion of the said water-hook, substantially as specified.

3. In a harness-saddle, the combination with the pad, and the small saddle having a

lug extending through said pad, of the water-hook having a rearwardly-bent arm, extending through and underneath the pad and engaged with the said lug, substantially as specified.

4. In a harness-saddle, the combination with the saddle proper, the small saddle and the pad, of the water-hook having an upper spring portion, and a lower rigid portion which extends through and back underneath the pad, and a screw which passes up through said arm, saddle, and small saddle, and is extended up to meet the spring portion of said hook, substantially as specified.

5. In a harness-saddle, the combination of the center casting, or crown-piece, the small saddle having a depending lug, the pad, the skirt and jockey portions, the flat springs interposed between said skirt and jockey portions, the water-hook having an arm extending underneath the pad and engaging said depending lug, and the terrets which extend through the casting, the jockeys, the springs, the casting and the skirt portions, substantially as specified.

6. In a harness-saddle, the combination with a curved center casting, or crown-piece, having rabbeted end portions, and with the skirt and the jockey portions, of the spring-plates interposed between the skirt and jockey portions and seated at their upper ends upon the rabbeted portions of said center casting, the water-hooks having the threaded shanks which extend through the skirt and jockey portions and through the said springs and castings, and nuts on the inner ends of said shanks, substantially as specified.

7. In a harness-saddle, the clips secured thereto, one at each side portion, the washer seated between said clips and the saddle, the removable screws passing through said clips, washers, and saddle, and the triple-loop pieces having a loose bearing on said washers and to which the traces, the shaft-tugs and bearing-straps, and the pull-back straps are connected, substantially as specified.

8. In a harness-saddle, the combination with a trace having an eye therein, of the metallic eye S secured to the under side of the trace end and cut away at s below the front portion of the trace-eye, its rear portion having a flanged portion S' which extends up through the rear portion of the eye and above the upper edge of the same, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

EMIL VOGTSBERGER.

Witnesses:

H. T. KLUGE,
CHAS. KLUGE.