(No Model.)

W. R. KNOWLES.

HARNESS SADDLE.

No. 383,956. Patented June 5, 1888.

Fig. 1.

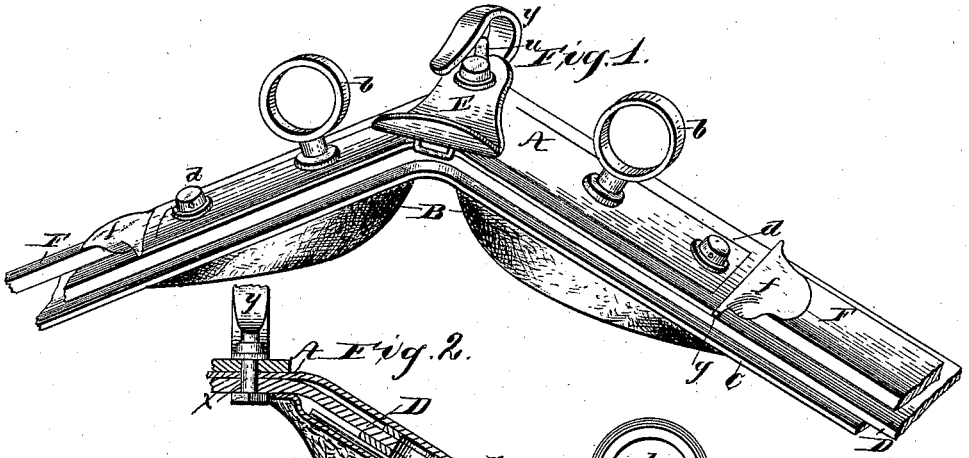


Fig. 2.

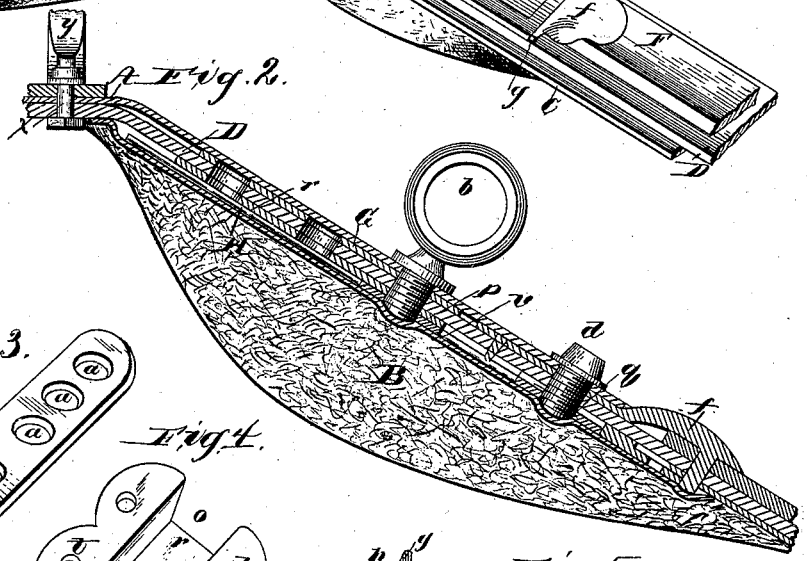


Fig. 3.

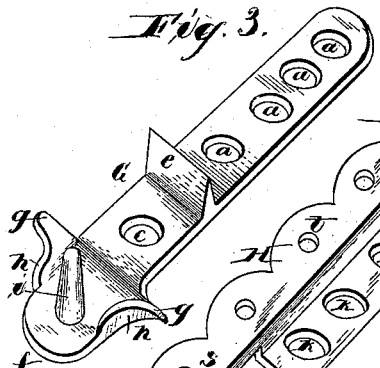


Fig. 4.

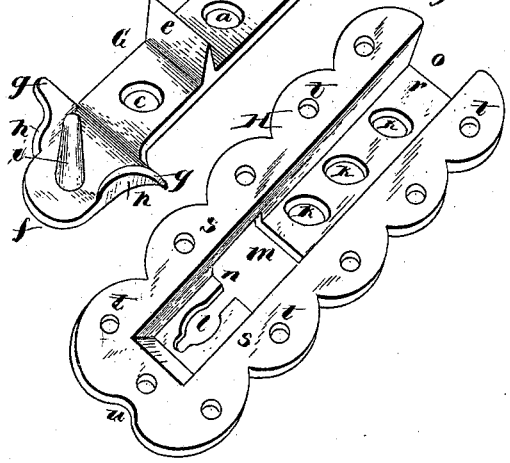


Fig. 5.

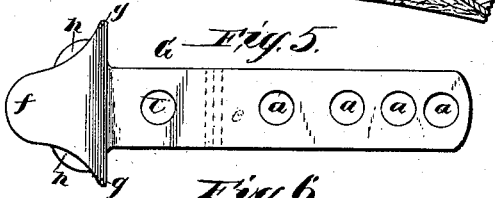
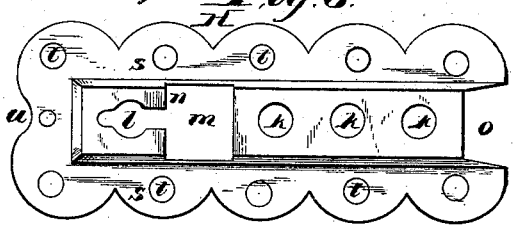


Fig. 6.



Witnesses.
Chas. H. Scott.
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Wm. R. Knowles
By Johnston, Reinhold & Dyer
his Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM R. KNOWLES, OF COLUMBIANA, OHIO.

HARNESS-SADDLE.

SPECIFICATION forming part of Letters Patent No. 383,956, dated June 5, 1888.

Application filed January 7, 1888. Serial No. 260,048. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. KNOWLES, a citizen of the United States, residing at Columbiana, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Harness-Saddles; and I do hereby 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.

My invention relates to harness-saddles, or, as frequently called, "gig-saddles," and has for its object an improvement in said gig-saddles, whereby they may be made lighter and easier of manufacture.

The invention will be hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective view of my improved harness-saddle; Fig. 2, a vertical longitudinal section of part of a saddle on an enlarged scale. Figs. 3 and 4 are perspectives of the irons shown in Fig. 2. Fig. 5 is a plan of the upper iron, and Fig. 6 is a like view of the lower iron.

Reference being had to the drawings and the letters marked thereon, A represents the jockey; B, the pad; C, the housing; D, the skirt; E, the saddle, and F the thill-bearer.

The principal feature in my present invention is in the means employed for securing the jockey, the skirt, and the pad together, and for supporting the thill-bearer. A plate, G, is provided with a series of holes, *a*, to receive the shank of a terret, *b*, and a hole, *c*, for the pad-screw *d* to pass through, a projecting lug, *e*, and a head, *f*, on which are formed transverse arms *g g*, depending flanges *h h*, and a pin, *i*, which passes through a hole in the end of the thill-bearer.

H is an under piece or plate of metal, with which the plate G engages, and is provided with holes *k*, which coincide with the holes *a* and *l*, which register with the holes *c* in said plate, and a slot, *m*, through which the nuts for the terret and pad-screw are inserted and lug *e* passes, and bearing upon the lower wall, *n*, of said slot, or against the upper end of the nut of the pad-screw, forms a support for the weight of the thills.

In the center of the piece H, and on the lower side, is formed a groove or chamber, *o*, to receive the nuts *p q* of the terret and the pad-screw, and on the upper side is a projection, *r*, which extends through the skirt D when the parts are put together, as shown in Fig. 2.

The head *f* of the plate G forms a handsome finish to the saddle, the jockey A terminating at its upper end and the transverse arms *g g* covering the ends of the jockey, while the flanges *h h* limit the movement of the thill-bearer and hide the end thereof.

The horizontal flanges *s* on the piece H are provided with holes *t*, for securing it to the housing of the saddle, and with a groove or seat, *w*, with which the pin *i* on the plate G engages for securing the plate against lateral displacement by sudden thrusts upon the thill-bearer.

In putting a saddle together a piece is cut out of the housing to let the projection on the upper side of the metal piece H pass through and form an even bearing or seat for the skirt D. The nuts are protected by a thin strip of metal or leather, *v*, and prevented from cutting the hair of the pad. To the saddle E is secured a rein-guard, *w*, which is held in position by the bolt *x*, which fastens the rein-hook *y* to the saddle.

The plates may be made of any suitable metal and finished in a high style of art.

Having thus fully described my invention, what I claim is—

1. In a harness saddle, the plate for supporting a thill-bearer, provided with a head having transverse arms, flanges depending from each side of the head for limiting the movement of the thill-bearer, and a pin projecting from the under side of said head for engagement with a hole in the thill-bearer, in combination with a plate separate from the tree, having a groove to receive the nuts of the terret and pad-screw, substantially as described.

2. In a harness-saddle, the plate for supporting a thill-bearer, provided with a head having flanges depending from each side of the head for limiting the movement of the thill-bearer, and a pin projecting from the under side of said head for engagement with a hole in the thill-bearer, in combination with a plate

separate from the tree, having a seat to receive said pin and secure it against lateral displacement, and a groove for the reception of the nuts of the terret and pad screws, substantially as described.

3. In a harness-saddle, the plate for supporting a thill-bearer, provided with a head having flanges depending from each side of the head for limiting the movement of the thill-bearer, a pin projecting from the under side of said head for engagement with the thill-bearer, and a lug on the under side of the plate, in combination with a plate separate from the tree, having a slot to receive the lug on the upper plate and a groove to receive the nuts of the terret and the pad-screw, and a thill-bearer having a hole in it to engage with said pin, substantially as described.

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

WILLIAM R. KNOWLES.

Witnesses:
B. RENKENBERGER,
HENSON GORE.