W. A. Robinson,

Horse Collar Fastener.

No. 89,346. Patented Apr. 27. 1869.

Fig. 1.

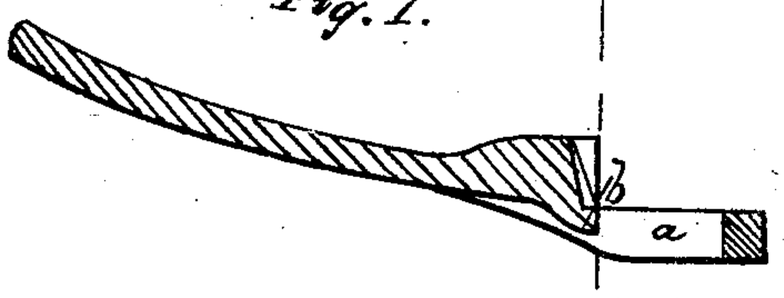


Fig. 4.

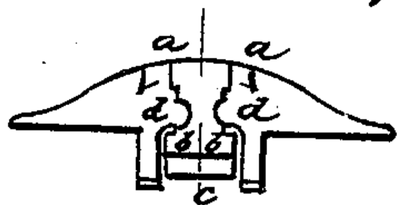


Fig. 2.

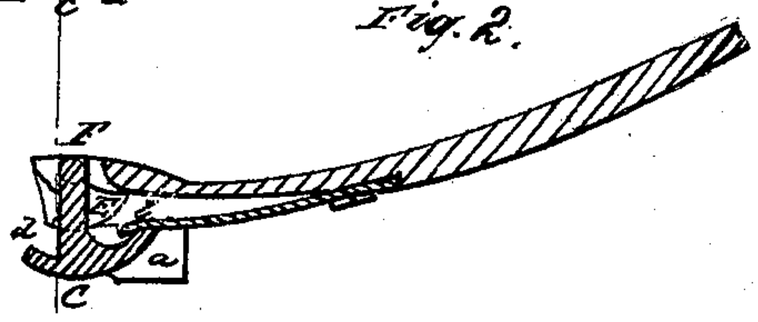
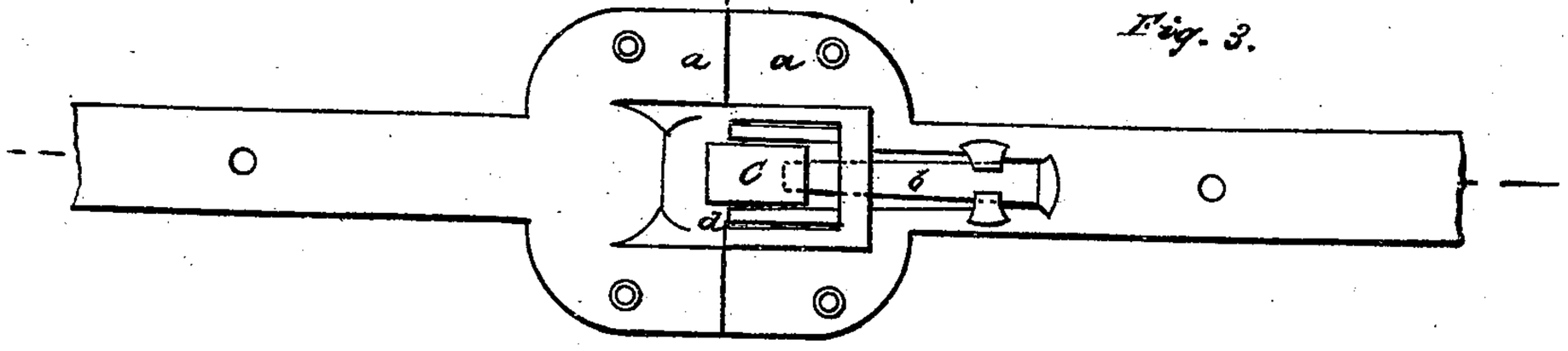


Fig. 3.



Witnesses:
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United States Patent Office.

WILLIAM A. ROBINSON, OF GRAND RAPIDS, MICHIGAN.

Letters Patent No. 89,346, *dated April* 27, 1869; *antedated April* 17, 1869.

IMPROVED HORSE-COLLAR FASTENER.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, WILLIAM A. ROBINSON, of the city of Grand Rapids, Kent county, State of Michigan, have invented a new and improved Horse-Collar Fastener; and I hereby declare that the following is a full and exact description of said invention, reference being had to the attached drawings, making a part of this specification.

The object sought to be accomplished by said invention is to provide means for preserving the circular form of the common horse-collar, after it is separated at the lower end, and for securely and conveniently fastening and unfastening the same, so as to avoid the necessity of passing it over the horse's head in the process of harnessing and unharnessing.

Said invention may be constructed of any desirable metal, and consists of two bars, Figures 1 and 2, which may be curved, to correspond with the curve, or circle of the lower end of the collar, and may be attached to the collar, either inside or outside of the leather covering, by means of rivets, or otherwise; and, when thus attached, will preserve the curved form of the common collar.

The lower end of said bars, which meet in the process of fastening, are made wider, in order to form a good, strong joint, and, at the same time, to afford means for attaching the same to the collar, on either side of the device, for fastening the different parts together.

At the lower end of the bar, fig. 1, and extending from the under side, there is a mortise, *a*, fig. 1, say five-eighths of an inch square, more or less, which receives a tenon, *a*, fig. 2, attached to the under side of the lower end of bar, fig. 2, which tenon, *a*, fig. 2, when brought into the mortise *a*, fig. 1, brings the lower ends of said bars in close contact.

There is a slot, as seen at *c*, Figure 4, and *b*, fig. 2, cut in the end of said bar, fig. 2, which extends down through said tenon, *a*, fig. 2, and along the bar, as indicated by the letter *b*, fig. 2.

There is also a catch, *c*, fig. 2, having a hook, *d*, on one side, which, when in proper position, serves to hold the two bars together, and on the other side it extends back, forming a lug, for the spring *b*, Figure 3, to act upon in forcing the catch forward.

Said catch also has transverse journals *a a*, fig. 4, on the upper end, and is suspended from journal-boxes F, fig. 2, and works forward and back in said slot *c*, fig. 4.

There is a shoulder on either side of said catch *b b*, fig. 4, which passes under a corresponding circular shoulder, E, fig. 2, on either side of said slot *c*, fig. 4, which said shoulders and spring, together with two straps, *d d*, fig. 4, serve to keep said catch *c*, fig. 2, in position.

When the tenon *a*, fig. 2, is being brought into the mortise *a*, fig. 1, by pressure, the catch recedes, and when the tenon has entered, the catch is advanced by action of the spring, the hook *d*, fig. 2, passing under the opposite side of the mortise indicated by the letter *d*, fig. 3, and the letter *b*, fig. 1, and the two parts are securely fastened together. They are unfastened by pressing the catch *c*, fig. 3, back with the thumb, and lifting the tenon out of the mortise.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the mortise *a*, fig. 1, and the tenon *a*, fig. 2, with the catch *c*, fig. 2, and the spring *b*, fig. 3, both said catch and spring working in said slot, when constructed and operating substantially as set forth and described.

2. The application of the curved bars, figs. 1 and 2, or their equivalent, for the purpose specified.

3. The combination of the above-described device for fastening, or its equivalent, with the curved bars, or their equivalent, when applied as and for the purpose set forth and intended.

WM. A. ROBINSON.

Witnesses:

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