(No Model.)

M. T. SHADDUCK.

TUG BUCKLE.

No. 255,341. Patented Mar. 21, 1882.

Fig: 1.

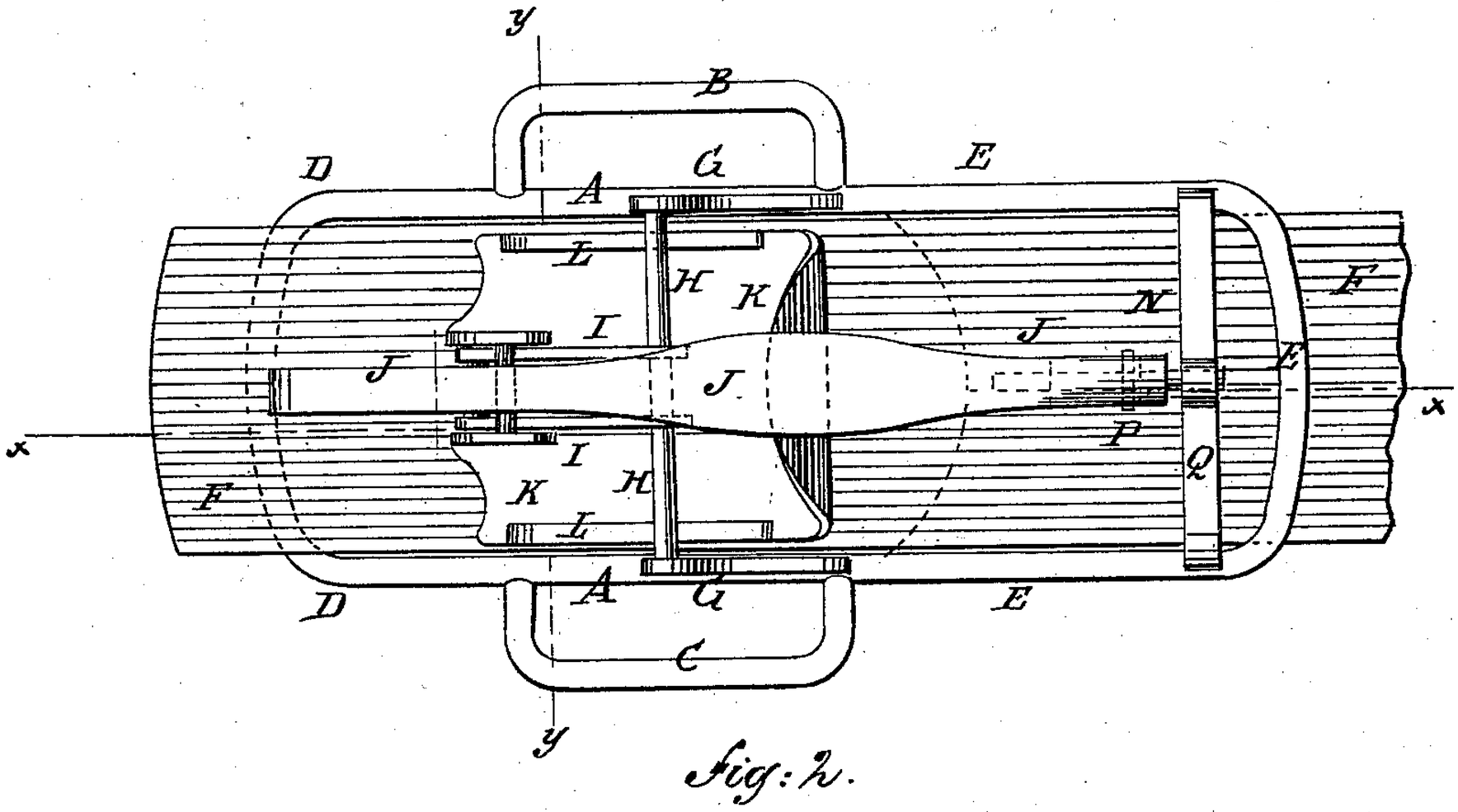


Fig: 2.

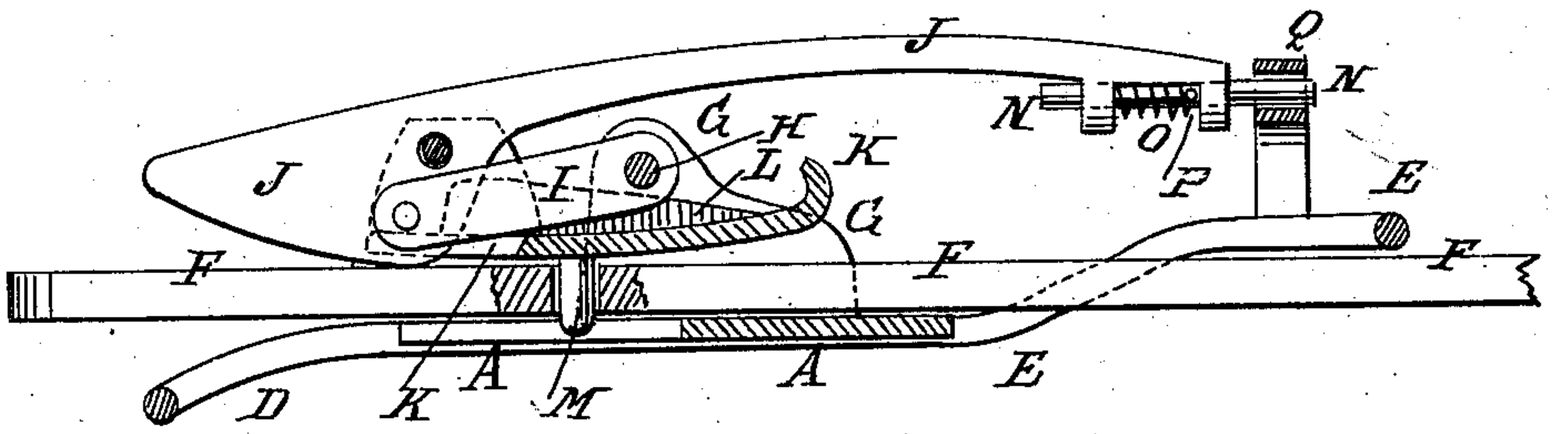
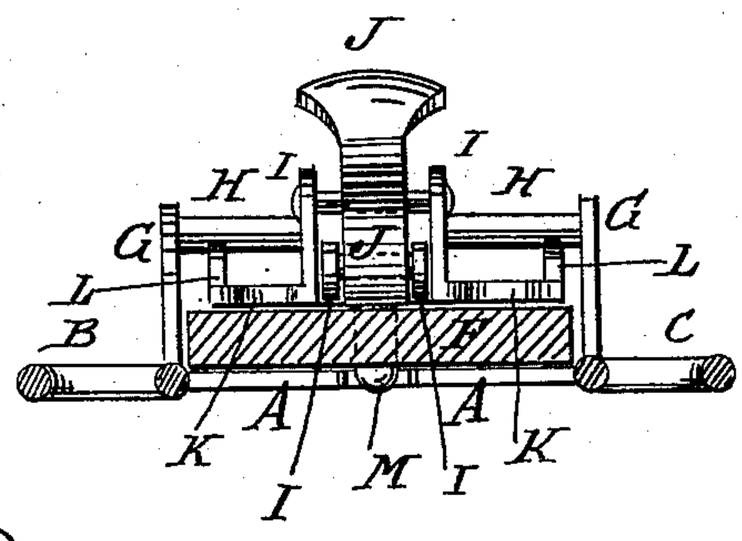


fig: 3.



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UNITED STATES PATENT OFFICE.

MADISON T. SHADDUCK, OF SHUNK, PENNSYLVANIA.

TUG-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 255,341, dated March 21, 1882.

Application filed August 26, 1881. (No model.)

To all whom it may concern:

Be it known that I, MADISON T. SHADDUCK, of Shunk, Sullivan county, Pennsylvania, have invented a new and useful Improvement in Tug-Buckles, of which the following is a specification.

Figure 1 is a plan view of my improved tug-buckle. Fig. 2 is a sectional side elevation of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a sectional end elevation of the same, taken through the line *y y*, Fig. 1.

The object of this invention is to promote security in buckling harness-tugs.

The invention consists in hinging the tongue-plate to a lever, which in turn is hinged by connecting-rods to a cross-bar of the frame and adapted to be held in a locked position by a spring-bolt engaging an eye-bar of the frame, all as hereinafter fully described.

A represents the frame of the buckle, which is made in the form of a plate, and is slotted from the forward end to receive the end of the buckle-tongue. Upon the upper edge of the frame or plate A is formed a loop, B, to receive the saddle-strap, and upon its lower edge is formed a loop, C, to receive the belly-band. Upon the forward end of the frame A is formed a loop, D, to receive the hame-tug, and upon its rear end is formed a loop, E, to receive the holdback or breeching strap. The loop D curves inward and the loop E curves outward, as shown in Fig. 2, so that the tug F can pass through the buckle in a straight line. Upon the rear part of the side edges of the frame A are formed flanges G, to the outer parts of the forward ends of which is attached a cross-bar, H.

To the middle part of the cross bar H are hinged the rear ends of two small bars or links, I, the forward ends of which are pivoted to the opposite sides of the lower forward part of the lever J. The lever J, at a point just above the forward ends of the links I, is pivoted to and between two lugs formed upon or attached to the slotted forward end of the wedge-plate K. The wedge-plate K passes back beneath the cross-bar H, and has inclined or tapered flanges L formed upon the forward part of its side edges, to act against the cross-bar H and press the plate K down upon the tug F. The rear edge of the plate K is curved upward, as shown in Figs. 1 and 2, to allow the tug F to be inserted beneath it readily.

To the middle part of the lower side of the plate K, a little in front of its center, is attached a pin, M, to enter a hole in the tug F and serve as a tongue to keep the said tug in place.

The lower side of the forward end of the lever J is rounded, so that it will slide easily upon the tug F when the said lever is operated to raise the plate K and draw it forward to withdraw the tongue M from the tug F and release the said tug to allow it to be adjusted or withdrawn from the buckle. Upon the lower side of the rear end of the lever J are formed two lugs, through which slides a pin or bolt, N, which is held forward by a spiral spring, O, placed upon it between the said lugs. The inner end of the spring O rests against the inner lug of the lever J, and its outer end rests against a pin, P, attached to the bolt N. The outer end of the bolt N passes through an eye in the center of an arched bar, Q, to lock the lever J in place. The ends of the arched eye-bar Q are attached to or formed upon the side bars of the loop E.

With this construction the tug will be held securely, so that it cannot move forward or become unbuckled when the horse backs, even if the tug fits the buckle loosely.

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

1. A tug-buckle constructed, substantially as herein shown and described, of the frame A, having loops B C D E and flanges G, the cross-rod H, the links I, the lever J, the plate K, having inclined flanges L and tongue M, and the spring-bolt O N and eye-bar Q, as set forth.

2. In a tug-buckle, the combination, with the frame A, provided with flanges G, connecting-rod H, and eye-bar Q, of the links I, the tongue-plate K, and the lever J, provided with the spring-bolt N, substantially as and for the purpose set forth.

3. In a tug-buckle, the combination, with the frame A, provided with the flanges G and connecting-rod H, the links I, and the lever J, of the tongue-plate K, provided with the inclined flanges L, substantially as and for the purpose set forth.

MADISON TAYLOR SHADDUCK.

Witnesses:

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