

WILLIAM BOYD.

Improvement in Clamps for Thill-Couplings.

No. 115,273.

Patented May 30, 1871.

Fig. 1.

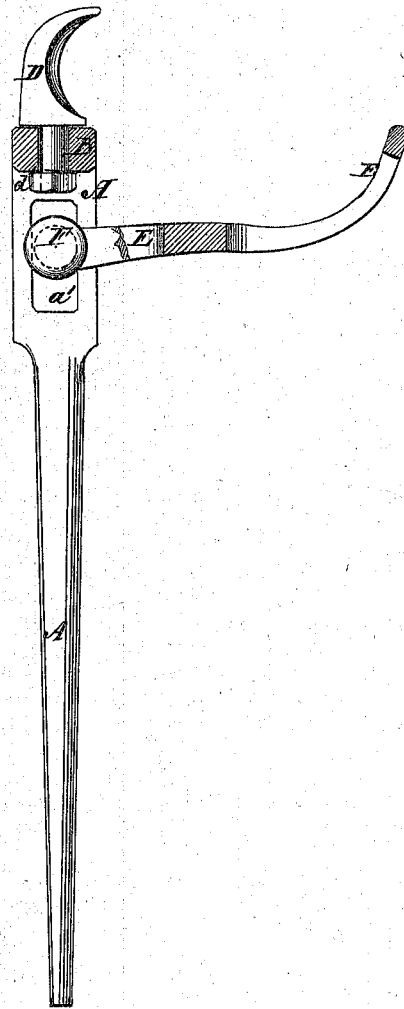
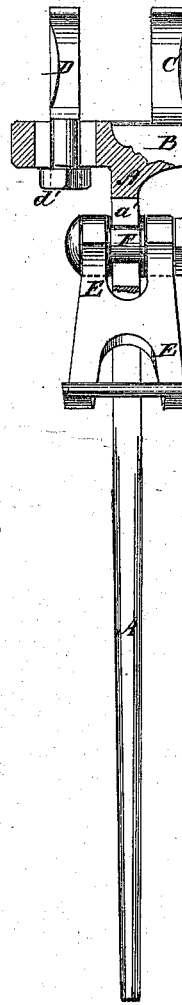


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM BOYD, OF HARTFORD, NEW YORK.

IMPROVEMENT IN CLAMPS FOR THILL-COUPPLINGS.

Specification forming part of Letters Patent No. 115,273, dated May 30, 1871.

To all whom it may concern:

Be it known that I, WILLIAM BOYD, of Hartford, in the county of Washington and State of New York, have invented a new and useful Improvement in Clamp for Thill-Couplings; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side view of my improved clamp, parts being broken away to show the construction. Fig. 2 is a rear view of the same, parts being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved clamp for drawing the eye of a thill-iron into place in a thill-coupling against the elasticity of the rubber, so that the coupling-bolt can be readily inserted in place, and which shall be simple in construction, convenient in use, and effective in operation; and it consists in the construction and combination of the various parts of the clamp, as hereinafter more fully described.

A is the lever or handle of the clamp, upon the forward end of which is formed a cross-head, B. To one end of the cross-head B is securely attached a claw, C. The other end of the cross-head B is slotted to receive the shank of the other claw D, which is secured in place when adjusted by a nut, *d'*, as shown in Figs. 1 and 2. By this construction the claw D may be conveniently adjusted so that the claws C D may fit upon the eyes of differ-

ent-sized thill-irons to draw the said eyes into place in the coupling against the elasticity of the rubber placed in said coupling. E is a bar, the inner end of which is slotted to receive the bar or handle A, to which it is pivoted by a bolt, F, which passes through a hole in the slotted end of the bar E, and through a slot, *a'*, in the handle A. The outer end of the bar E is curved upward and is slotted, as shown at Figs. 1 and 2, so as to receive and clasp the rear end of the clip-yoke of the coupling.

In using the clamp the outer end of the slotted bar E is hooked over the rear end of the clip-yoke of the coupling, with its solid middle part resting upon the forward nut of said yoke. The claws C D are hooked upon the eye of the thill-iron, the slot *a'* enabling the clamp to properly adjust itself to the height of the thill-iron eye above the lower side of the axle. When thus adjusted the lower or free end of the lever is drawn forward, which draws the eye of the thill-iron into its seat, so that the coupling-bolt can be readily inserted.

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

The combination of the lever A *a'*, cross-head B, stationary claw C, adjustable claw D, slotted bar E, and bolt F, with each other, said parts being constructed and operating substantially as herein shown and described, and for the purpose set forth.

WILLIAM BOYD.

Witnesses:

JOHN HARRINGTON,
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