

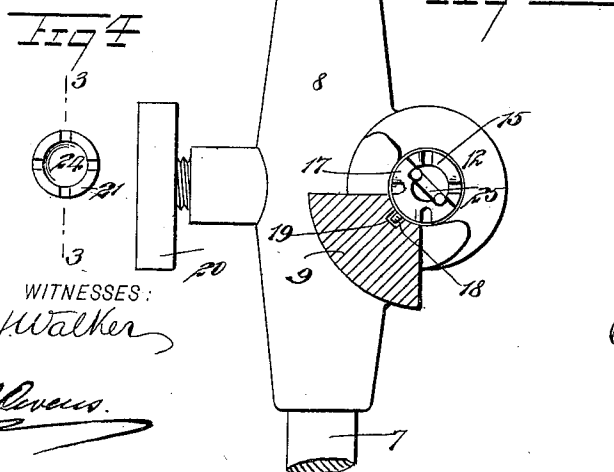
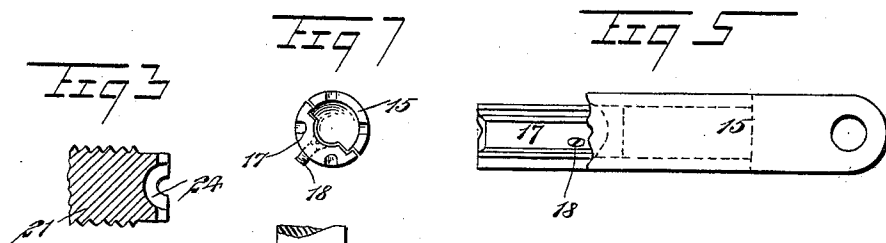
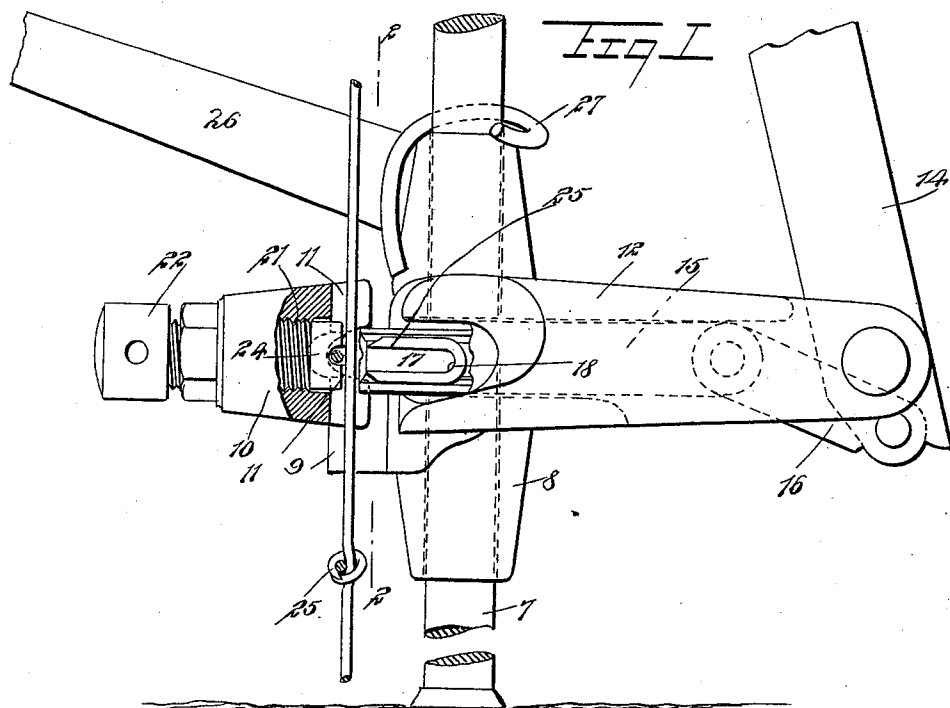
No. 642,944.

Patented Feb. 6, 1900.

O. D. WOODBURY.
FENCE WIRE FASTENING DEVICE.

(Application filed Oct. 30, 1899.)

(No Model.)



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OSCAR DAVIS WOODBURY, OF ROCHESTER, NEW YORK.

FENCE-WIRE-FASTENING DEVICE.

SPECIFICATION forming part of Letters Patent No. 642,944, dated February 6, 1900.

Application filed October 30, 1899. Serial No. 735,266. (No model.)

To all whom it may concern:

Be it known that I, OSCAR DAVIS WOODBURY, a citizen of the United States, and a resident of Rochester, in the county of Monroe and State of New York, have invented a new and Improved Wire-Fence Machine, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide an apparatus by which to fasten stays to the running-wires of wire fences, the fastening being effected by clenching a staple around the wires at their juncture and slightly crimping the wires, so that the staple may more effectively engage and hold them in the proper relative position.

This specification is the disclosure of one form of my invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the invention in use with a part broken away. Fig. 2 is a sectional view on the line 2 2 of Fig. 1. Fig. 3 is a sectional view on the line 3 3 of Fig. 4. Fig. 4 is a front view of one of the dies. Fig. 5 is a side elevation of the other die. Fig. 6 is a view illustrating the fastening when effected, and Fig. 7 is a front elevation of the plunger and its die.

A post or standard 7 is provided and adapted to stand on the ground, as indicated in Fig. 1. On this post slides a carriage 8, provided with a quadrant-shaped projection 9, carrying a holder 10, serving to guide the running-wires and stays, as indicated in Fig. 1, for which purpose the holder 10 is formed with vertical and horizontal grooves 11. The carriage 8 may be held at a desired position on the post 7 by means of a set-screw 20. (See Fig. 2.) The carriage 8 also supports a horizontal sleeve 12 from a guideway disposed in longitudinal alinement with the holder 10 and having an operating-lever 14 fulcrumed thereon. In the sleeve 12 a plunger 15 slides toward and from the holder 10, this plunger being connected by a link 16 with the lever 14 and the lever serving as a means for driving the plunger. Alongside the plunger 15 is mounted a

die 17, which has a pin 18 sliding in a longitudinally-disposed slot 19, formed in the projection 9, as best shown in Fig. 2.

The holder 10 is internally threaded and carries a stout screw-threaded shaft 21, provided with a head 22, with which a spanner or other tool may be connected for turning the screw 21. The inner end of the screw 21 is formed with a die 24, working with the die 17. The staple of which the fastening is formed is indicated at 25 in Figs. 1 and 2. The die 17 is set into a recess formed in the plunger 15, and these two parts, as shown in Fig. 7, match with each other to form a cylindrical die opposing the die 24. The die 17 is arranged to receive the staple, as shown in Fig. 1, and to carry the same during the clenching operation. The plunger advances the staple against the die 24 and causes the same to be clenched. When the plunger 15 nears the end of its movement, the plunger strikes the right-hand end of the die 17 and causes it to move with the plunger, the two parts thus acting as an entirety to clench the staple.

By adjusting the carriage 8 on the standard or post 7, so that the horizontal wire will lie in the horizontal groove 11 of the holder 10 and so that the vertical wire will lie in the vertical groove of the holder 10, as indicated in Fig. 1, and by placing the staple 25 in the position shown the parts will be put in position for effecting the fastening, which is done by throwing downward the lever 14, thus advancing the plunger 15 toward the holder 10 and causing the staple 25 to straddle the wires and then to engage with the die 24, which is cupped, as indicated best in Fig. 3, so that the ends of the staple are turned inward past each other and clenched in the manner shown in Fig. 6. Simultaneously the contiguous ends of the dies and the plunger meet each other and slightly crimp the wires of the fence, causing the staple to hold more securely.

If desired, a bracing-arm 26 may be provided and fitted with a hook 27 for engaging with the post 7 and carriage 8. This bracing-arm may be held by an attendant during the operation of the lever 14, so as to steady the apparatus when the connection is being

effected. In light work this bracing-arm 26 will not be necessary; but it may be used to advantage when a stout staple is employed. It will be understood that the carriage 8
5 should be adjusted upon the post 7 at each operation, so as to place the carriage in the proper position with respect to the running-wires of the fence. It should also be understood that the apparatus is portable and may
10 be readily moved along the fence as the work progresses.

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

15 1. In an apparatus for fastening fence-wires, the combination with a support, of a carriage, a holder mounted thereon, a die carried in the holder, a sleeve also mounted on the carriage, a plunger working therein, means
20 for driving the plunger, and a second die held by the carriage and alongside the plunger, the plunger and said second die opposing the die of the holder.

2. In an apparatus for fastening fence-
25 wires, the combination with a support, of a carriage, a stationary die held thereon, a driven plunger mounted on the carriage, and a die mounted alongside the plunger and movable toward and from the first-named die.

30 3. In an apparatus for fastening fence-wires, the combination with a post or standard, of a carriage movable thereon, a stationary die mounted on the carriage, a movable die mounted on the carriage opposite the sta-

tionary die, and means for operating the mov- 35
able die.

4. In an apparatus for fastening fence-wires, the combination of a carriage, a support formed with grooves to receive the fence-wires, the support being held by the carriage, 40
a die carried in the support adjacent to the grooves, a sleeve mounted on the carriage, a plunger working in the sleeve, means for driving the plunger, and a second die held by the carriage alongside the plunger and movable 45
toward and from the first-named die.

5. The combination with a carriage, of a stationary die mounted thereon, a movable die juxtaposed to the stationary die, and a
plunger in the path of which the movable die 50
is mounted, the plunger and said movable die working together against the stationary die.

6. The combination with a body portion or framing having a guideway therein of a stationary die fixed on the frame, a reciprocal 55
die mounted in the guideway of the body portion or framing to move in a fixed path therein toward and from the stationary die, a plunger also mounted in the end of the guideway or frame of the body to engage the recip- 60
rocating die and force the same against the stationary die and means for driving the plunger.

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Witnesses:

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