

No. 836,839.

PATENTED NOV. 27, 1906.

W. H. SHIERSON.  
TIE FOR WIRE FENCING.  
APPLICATION FILED DEC. 29, 1905.

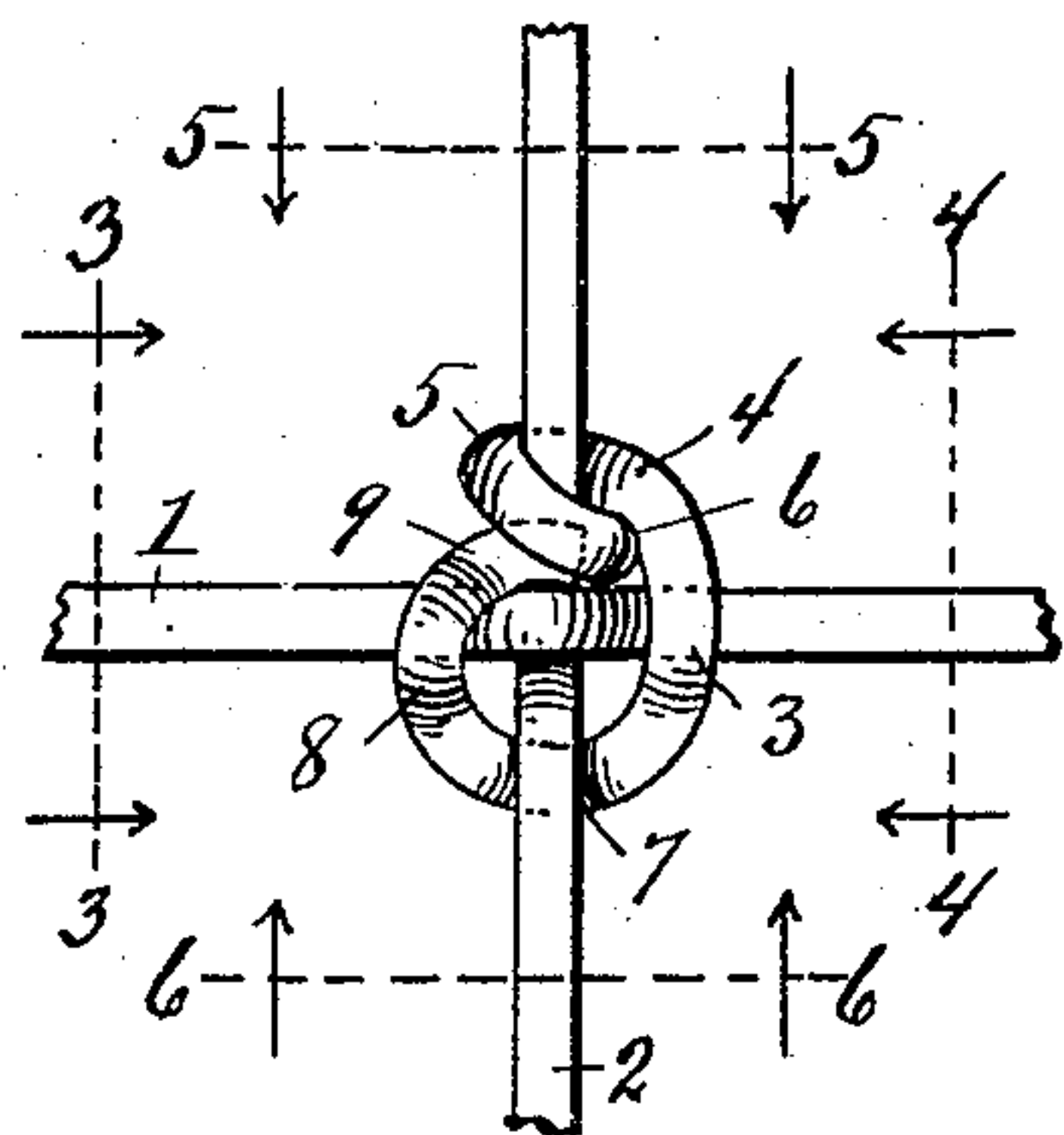


Fig. 1.

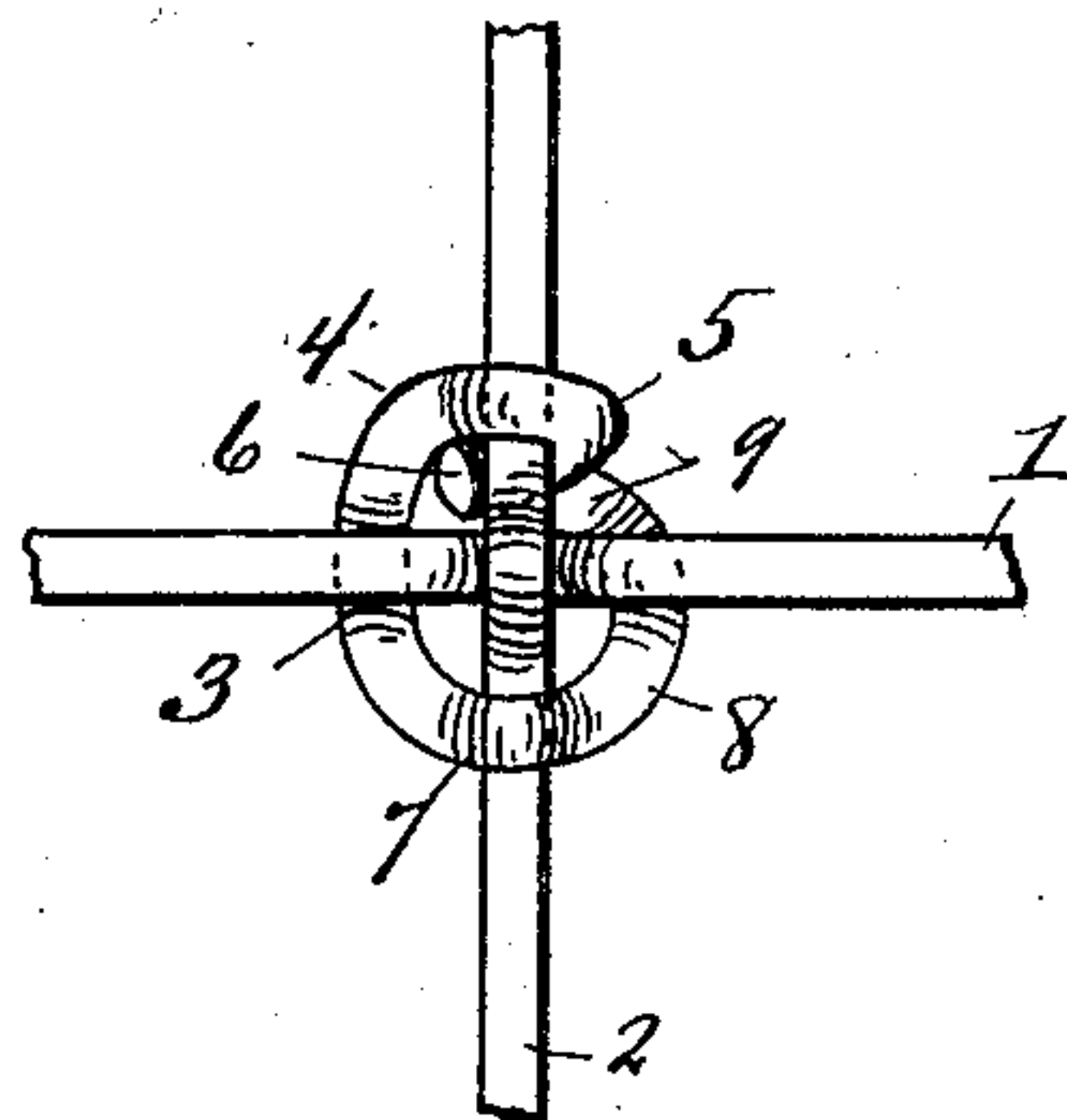


Fig. 2.

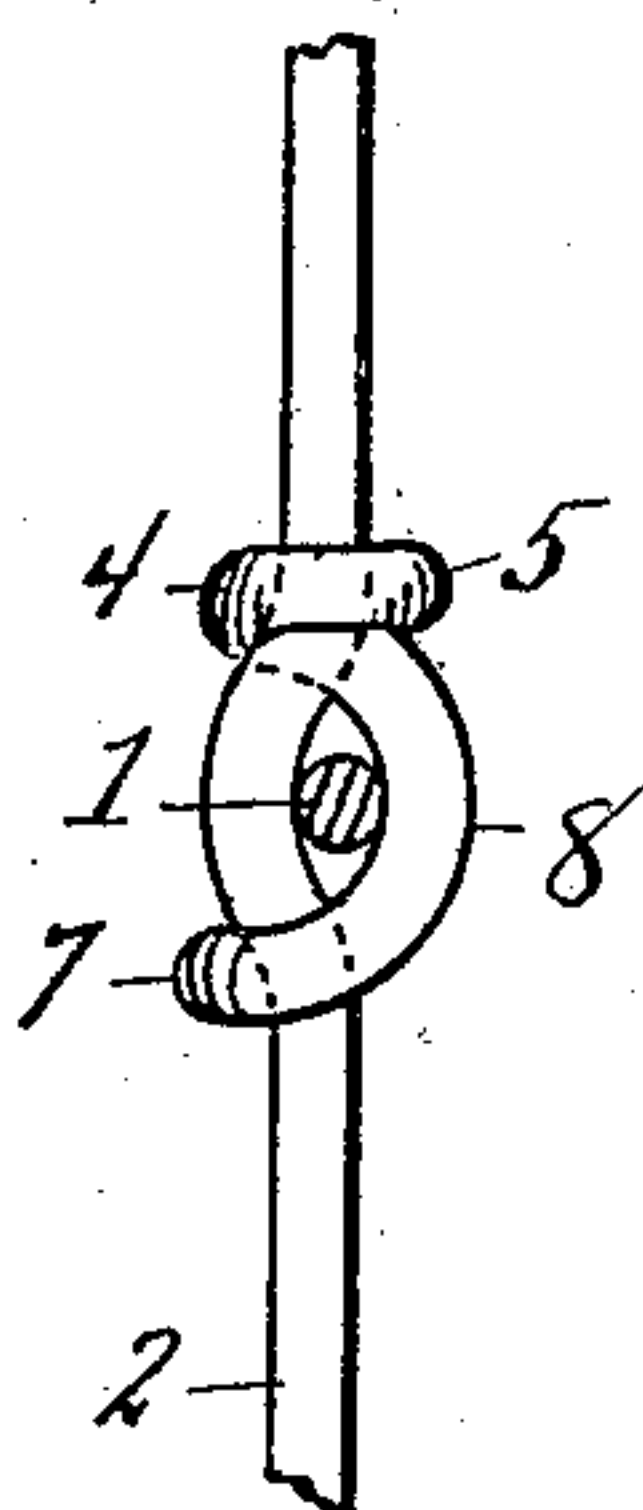


Fig. 3.

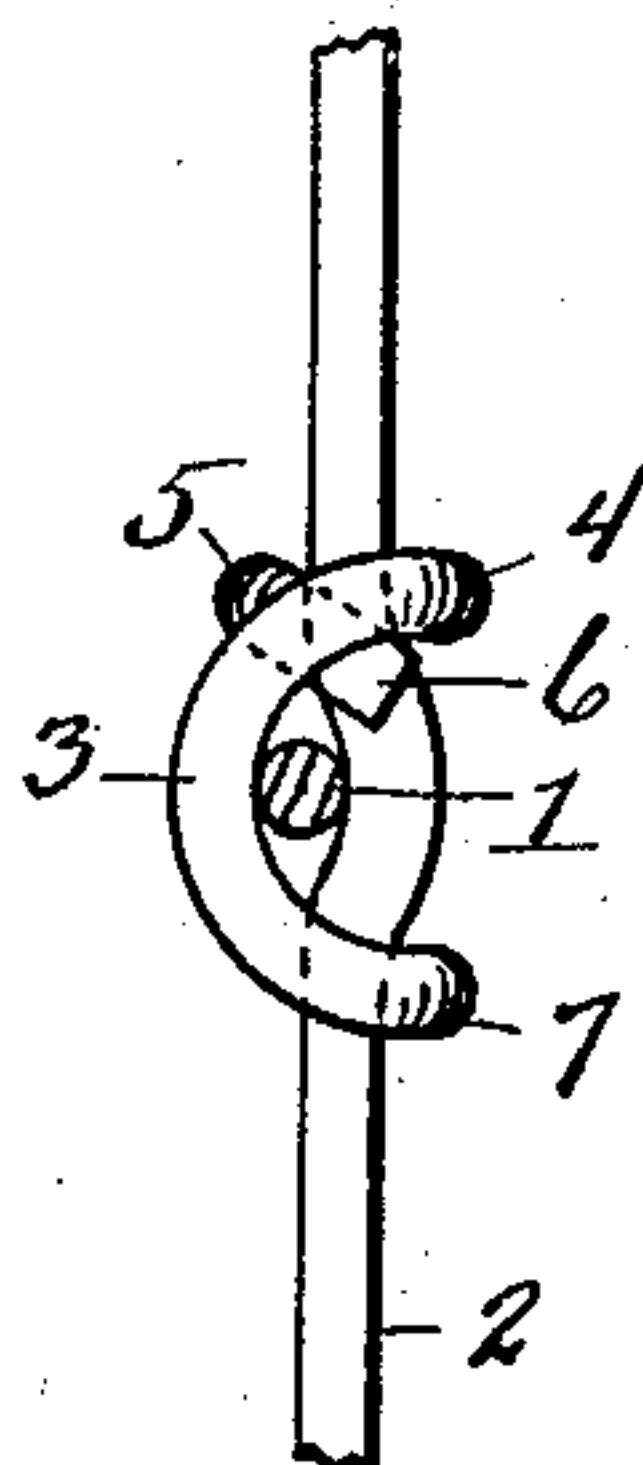


Fig. 4.

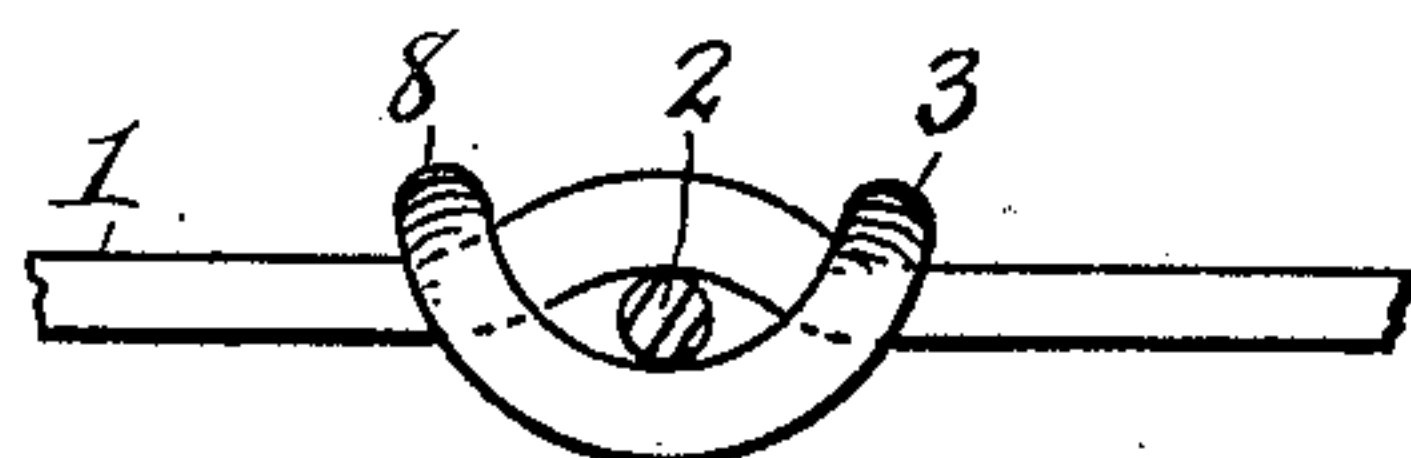


Fig. 5.

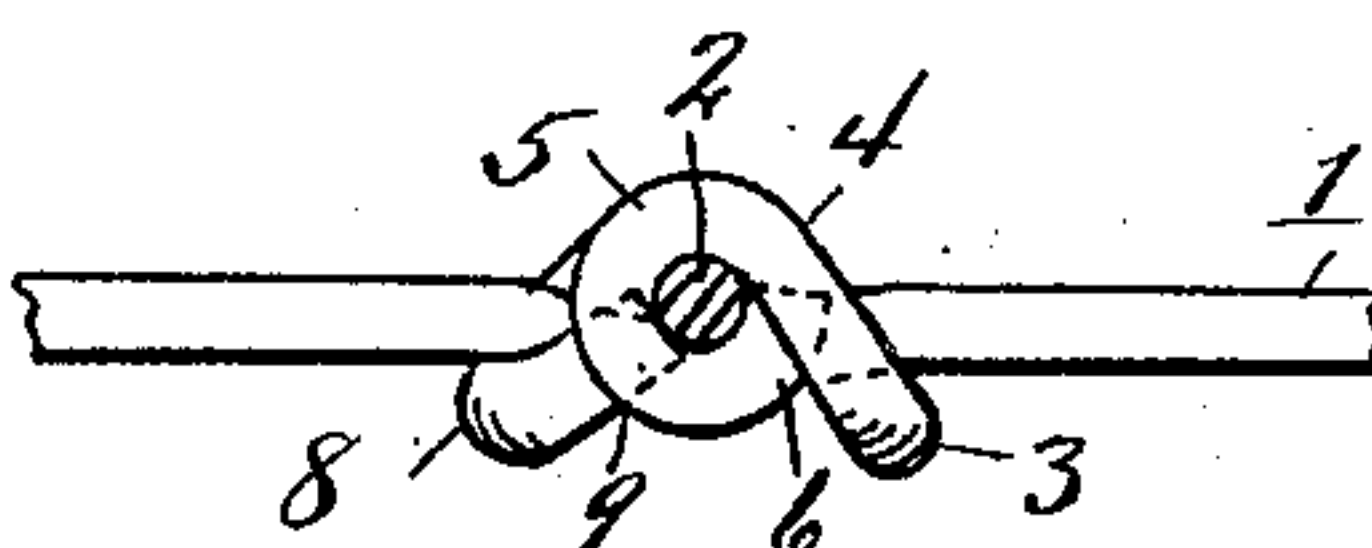


Fig. 6.

-Witnesses-

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# UNITED STATES PATENT OFFICE.

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## TIE FOR WIRE FENCING.

No 836,839.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed December 29, 1905. Serial No. 293,727.

*To all whom it may concern:*

Be it known that I, WILLIAM H. SHIERSON, a citizen of the United States, residing at Adrian, in the county of Lenawee, State of Michigan, have invented certain new and useful Improvements in Ties for Wire-Fencing; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to a tie for joining the crossed strands of a wire fabric, especially designed for use in connection with the building of wire fencing; and it consists in the peculiar formation and association of parts hereinafter more fully set forth, and pointed out particularly in the claims.

The object of the invention is to produce a tie of the character described by means of which the crossed wires of a wire fencing may be firmly united and wherein the arrangement is such as to afford a tie in the formation of which a comparatively small amount of wire is used and wherein such disposition is made of the ends of the tie as to obviate the protrusion thereof.

The above object is attained by the structure illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the front side of the tie. Fig. 2 is a plan view of the rear side thereof. Fig. 3 is a sectional view as on line 3 3 of Fig. 1. Fig. 4 is a sectional view as on line 4 4 of Fig. 1. Fig. 5 is a sectional view as on line 5 5 of Fig. 1. Fig. 6 is a sectional view as on line 6 6 of Fig. 1.

Referring to the characters of reference, 1 designates the line or longitudinal wire, and 2 the transverse or cross wire, said wires being crimped at their point of crossing to prevent lateral displacement. The tie-wire which joins said crossed wires is first formed in the shape of a staple and is driven between suitable dies, (not shown,) which embrace the crossed strands and wherein the

legs of the staple are directed around said wires in a manner to unite them, as illustrated in the accompanying drawings.

When the tie is formed upon the crossed wires to join them in a fencing or fabric, the loop 3 of the staple lies upon and crosses the face of the strand-wire, while the leg 4 thereof passes in the rear of the stay-wire and is coiled once around said wire, as shown at 5, the extreme end portion 6 of the coil lying between the inside of leg 4 and the strand-wire. The leg 7 also passes in the rear of the stay-wire on the opposite side of the strand-wire from leg 4, and the terminal portion thereof crosses the outer face of the strand-wire in the arc of a circle, as shown at 8, the reëntrant end 9 of said curve or circular portion abutting against the stay-wire and lying between the coil 5 of leg 4 and the strand-wire.

By means of the above-described formation a tie is produced that is compact and that requires but a comparatively short length of wire to form, while the extreme ends of the legs of the tying-staple are so disposed of as to prevent their protrusion beyond the plane of the tie on either side, obviating the liability of any object catching upon said ends, producing a knot or tie which firmly joins the crossed strands in a manner to securely retain them in place.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a tie for wire fencing, the combination with the crossed strand and stay wires, of a tie-wire in the form of a staple having its loop end crossing the strand-wire, legs passing in the rear of the stay-wire, the terminal of one leg being wrapped around the stay-wire in the form of a coil, the extreme end of the coil lying between the inner side of said leg and the strand-wire, the terminal of the opposite leg crossing the strand-wire in the arc of a circle, and having its reëntrant portion lying between the strand-wire and the coil of the opposite leg.

2. In a tie for wire fencing, the combination with the crossed strand and stay wires,



of a tie in the form of a staple, having its loop  
end crossing the strand-wire, legs passing in  
the rear of the stay-wire, the terminal of one  
leg being wrapped in a coil around the stay-  
5 wire substantially parallel with the strand-  
wire, the terminal of the other leg crossing  
the strand-wire in the arc of a circle, and  
having its reëntrant portion impinging upon

the stay-wire between the strand-wire and  
the coil of the first-mentioned leg. 10

In testimony whereof I sign this specifica-  
tion in the presence of two witnesses.

WILLIAM H. SHIERSON.

Witnesses:

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N. C. THOMPSON.