

(No Model.)

J. C. PERRY.
WIRE FENCE.

No. 576,069.

Patented Jan. 26, 1897.

Fig. 1.

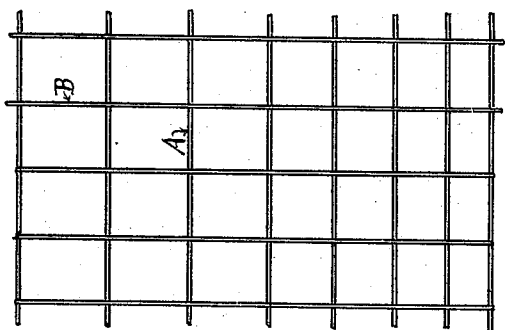


Fig. 2.

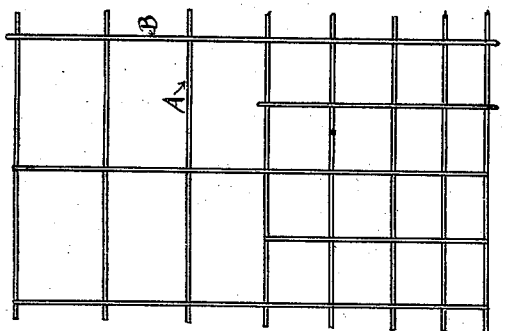


Fig. 3.

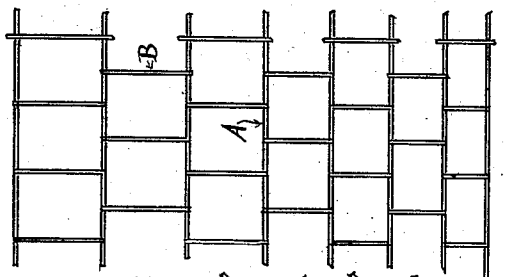


Fig. 4.

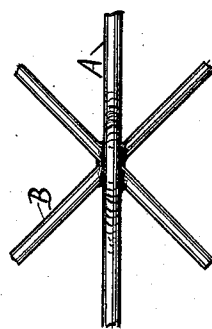
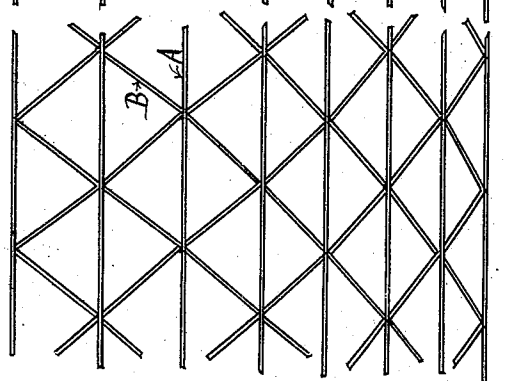


Fig. 5.

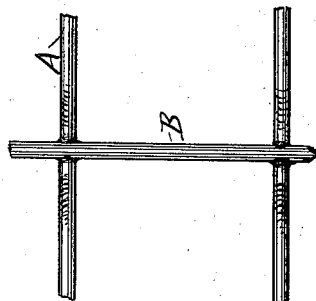


Fig. 6.

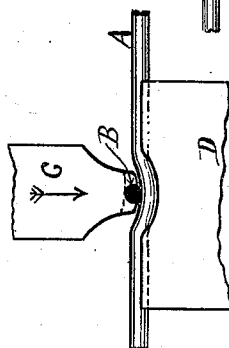


Fig. 7.



Fig. 8.

Witnesses.
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JOHN C. PERRY, OF JOLIET, ILLINOIS.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 576,069, dated January 26, 1897.

Application filed November 6, 1896. Serial No. 611,307. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. PERRY, a citizen of the United States of America, residing at Joliet, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Wire Fences, of which the following is a specification, reference being had therein to the accompanying drawings, and the letters of reference thereon, forming a part of this specification, in which—

Figures 1, 2, 3, and 4 are side views of sections of the fence, showing various forms of the mesh thereof and the varied manner in which the stay-wires may connect the strand-wires of the fence. Figs. 5 and 6 are detailed views showing the intersections of the stay and strand wires of the fence; Fig. 7, a detailed view of a single intersection of the stay and strand wire of the fence previous to welding, showing electrodes holding said wires in contact with each other; and Fig. 8 is a similar view after the welding has been completed and the electrodes removed.

This invention relates to certain improvements in wire fences wherein stay-wires are arranged connecting a series of strand-wires; and it consists in welding the stay-wires to the strand-wires, which improvements are fully set forth and described in the following specification and pointed out in the claims.

The object of this invention is to permanently connect together by means of electric welding the stay and strand wires of the fence; further, to produce a fence of this character of greater strength and durability than where the stay-wires are otherwise connected to the strand-wires; further, to produce a fence of less weight than is possible to produce in a fence of this character where the stay-wires are otherwise connected to the strand-wires, and, further, to render it possible to use in the manufacture of the fence harder, hence stronger, wires than is possible to use in fences wherein certain of the wires have to be coiled, and hence by the use of hard wire in the manufacture of this fence it is possible to produce marketable fence at a less cost than is possible to produce in fences made of annealed wire.

Referring to the drawings, A represents the strand-wires of the fence, and B the stay-wires of the same.

In the manufacture of the fence the stay-wires are placed crosswise of the strand-wire at any suitable angle thereto, and at each intersection of the stay and strand wires electrodes, as shown at C and D in Fig. 7, are employed to forcibly hold said wires together during the time of welding, and said electrodes are preferably shaped so as to kink the strand-wire at each said intersection, as represented in Figs. 7 and 8, which kinks render the fence more elastic than otherwise.

The means preferably employed for holding the electrodes upon the wires is a system of levers of any suitable form, not necessary to be illustrated in the accompanying drawings, so arranged as to be actuated to clamp the wire intersections at the conclusion of the placing of each stay-wire across the strand-wires and to release their hold on the wires at the conclusion of the welding process, so the strand-wires may be advanced and a succeeding stay-wire placed.

In the construction of mechanism for welding the wire intersections of the fence insulators are interposed between the electrodes and their operating-levers to break the electric circuit between the electrodes and the mechanism employed to actuate them, and it is preferable that the electric current be applied to the electrodes jointly, so as to simultaneously make the weld at each intersection of a stay-wire and the strand-wires.

Having thus described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is as follows:

1. A wire fence comprising a series of strand-wires, and a series of stay-wires arranged connecting and welded to said strand-wires, substantially as set forth.

2. A meshed wire fence welded at each intersection of the wires, substantially as set forth.

3. A wire fence comprising a series of parallel wires and a series of cross-wires welded together at each intersection of the wires, substantially as set forth.

JOHN C. PERRY.

In presence of—

WM. J. HUTCHINS,
C. PERCY UFFORD.