

(No Model.)

C. J. F. & A. C. H. KRAFT.

BARBED WIRE.

No. 341,921.

Patented May 18, 1886.

Fig. 1.

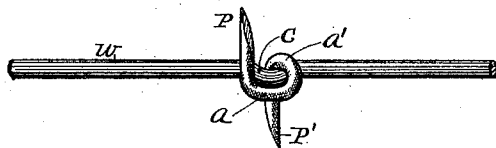


Fig. 2.

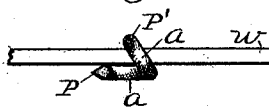


Fig. 3.

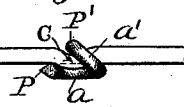


Fig. 4.

Fig. 5.

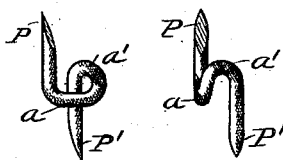
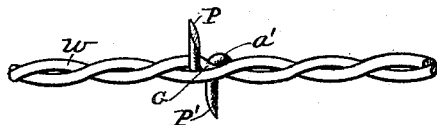


Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

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BARBED WIRE.

SPECIFICATION forming part of Letters Patent No. 341,921, dated May 13, 1886.

Application filed March 6, 1885. Serial No. 157,878. (No model.)

To all whom it may concern:

Be it known that we, CHARLES J. F. KRAFT and AUGUSTUS C. H. KRAFT, citizens 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 Barbed Wire for Fences, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a perspective view of a section of a strand-wire having a barb attached by being pressed thereon. Fig. 2 is a plan view of a section of a strand-wire having a barb saddled thereon, and as it appears before it has been compressed on the strand-wire, looking directly at the point of one of the prods. Fig. 3 is a similar view showing the barb compressed on the strand-wire, and showing the crimp in the strand-wire. Fig. 4 is a face view of a barb detached from the strand-wire, showing its long bend that receives the crimp in the strand-wire, and also the short bend for the reception of the strand-wire. Fig. 5 is a side view of a barb detached from the strand-wire, showing the short bend that saddles on the strand-wire; and Fig. 6 is a view of the barb applied to a single strand-wire, as in Fig. 1, and a second fellow strand-wire cabled therewith.

This invention relates to certain improvements in barbed wires for fences, wherein the barb is composed of a short piece of wire pointed at each end to form two oppositely-projecting prods, and formed so as to be applied to a single plain strand-wire by compressing it thereon, and thereby form crimps or bends in the strand-wire, to prevent either lateral or rotary motion of the barb thereon. Usually a two-pointed wire barb has been applied to the strand-wire by being coiled thereon, and at a place where the strand-wire had been previously crimped. In this case the barb is intended to be formed in advance by a separate machine and finished, all but being compressed on the strand-wire, and is applied to the plain strand-wire, in the first instance, by being saddled thereon, either by hand or in any other way desired, so that the barb, instead of being coiled on the strand-wire, is held by compression of its looped or bent parts against the sides thereof. In order to accom-

plish the purpose stated, the barb must be formed with peculiarly-shaped bends or loops, such as are illustrated in the drawings.

Referring to the drawings, Figs. 4 and 5 show the form of the barb, after it is formed, ready to be applied to the strand-wire, Fig. 4 being a face view to show the long bend *a*, to receive in its hollow the crimp to be formed in the strand-wire, and Fig. 5 a side view to show the short bend *a'*, that saddles on the strand-wire. The form of the barb as shown in said figures is obtained by bending it first in the form of a staple having one prod longer than the other, the short prod being shown at *P* and the long one at *P'*, thus forming the rather long bend *a*. The long prod *P'* is then bent at a point a little distance from bend *a*, so as to point in the opposite direction from prod *P*, thus forming the short bend *a'*, that saddles on the strand-wire *W*. Bend *a'* is intended to stand at an angle of about sixty degrees with bend *a*, so that prod *P'* will stand about opposite the center of bend *a*, and far enough from it to permit the barb to be saddled on the strand-wire in the manner shown in Figs. 1 and 2. After the barb has thus been saddled on the strand-wire, as shown in Fig. 2, it is passed between a pair of rolls, by means of which the barb is compressed, as shown in Figs. 1 and 3, to such an extent as to form a crimp, *c*, in the strand-wire, the prod *P'* resting in the hollow of said crimp, and the said crimp projecting into the hollow of bend *a*.

It is intended that the rolls for compressing the barb on the strand-wire may be plain flat rolls, and as the barb thus seated on the wire passes between them the prod *P'* will be compressed against the strand-wire to such an extent as to form the crimp *c* therein and drive it into the hollow of the bend *a* of the barb, changing the form of the barb and strand-wire from that shown in Fig. 2 to that shown in Figs. 1 and 3. It will be observed that the barb does not depend upon being coiled on the strand-wire to hold it on, but adheres thereto by its being thus compressed in the peculiar manner shown and described, which thoroughly prevents its rotation or lateral movement thereon.

We are aware that strand-wires for fences having such crimps, and having wire barbs coiled around the strand-wire on such crimps

to attach them to the strand-wire, have been used heretofore. Such construction we do not claim.

When desired, a second fellow strand-wire 5 may be cabled with the barbed strand-wire, as shown in Fig. 6, to form a cabled barbed strand-wire for fence purposes.

The bends a and a' in the barb may, in the first instance, be formed to be of the same size, 10 so that when set on the strand-wire either bend may be saddled thereon, so the barb may be applied either end up, for convenience. When the barb has been compressed on the strand-wire, as stated, the crimp c will spread the 15 bend a to some extent, so it will appear as shown in Figs. 1 and 3.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is as follows, to wit:

The barb for wire fences, shown and de- 20 scribed, formed from a short piece of wire pointed at each end and primarily bent in staple form, having one prod longer than the other, and having the longer prod bent at a little distance from the staple-head, so as to 25 point in an opposite direction from the other prod, and arranged to stand about opposite the center of said staple-head, in combination with a strand-wire placed in the hollow of the bend in the long prod and secured to the barb by 30 compressing the barb thereon, substantially as and for the purpose set forth.

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