

(No Model.)

J. HAISH.
BARBED FENCE WIRE.

No. 463,742.

Patented Nov. 24, 1891.

Fig 1

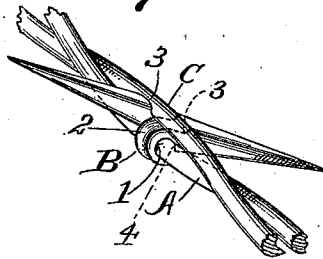


Fig 2

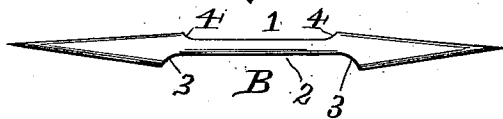


Fig 3

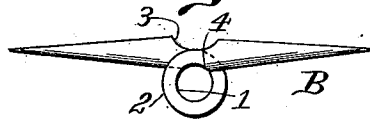


Fig 4

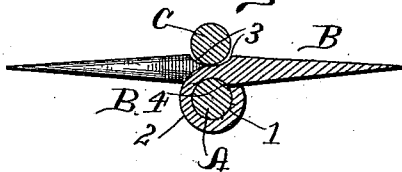
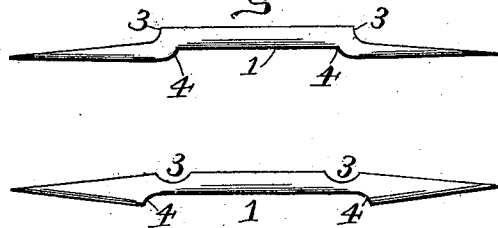


Fig 5.



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per John G. Manahan
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UNITED STATES PATENT OFFICE.

JACOB HAISH, OF DE KALB, ILLINOIS, ASSIGNOR TO THE HAISH MANUFACTURING COMPANY, OF SAME PLACE.

BARBED FENCE-WIRE.

SPECIFICATION forming part of Letters Patent No. 463,742, dated November 24, 1891.

Application filed August 11, 1891. Serial No. 402,372. (No model.)

To all whom it may concern:

Be it known that I, JACOB HAISH, a citizen of the United States, residing at De Kalb, in the county of De Kalb and State of Illinois, have invented certain new and useful Improvements in Barb Fence-Wire; 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 letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in barb fence-wire in which a wire barb coiled between its ends around one of the fence-wires is held in place by the coil aforesaid and the spiral intertwisting with said fence-wire of the companion fence-wire; and the objects of my improvement are, first, to flatten sufficient of the inside curve of said wire barb to afford a suitable seat for the same upon the fence-wire around which it is coiled; second, to flatten or notch a sufficient portion of the outside of the curve of said wire barb to provide shoulders, which, when the barb is in place, will respectively abut against the sides of the companion wire, thereby affording a bed for the latter wire, and which will also effectually prevent the rotation of said barb on the inner wire by reason of the engagement of said shoulders with said exterior wire. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective of a section of barb fence-wire embodying my invention. Fig. 2 is a representation of the barb before coiling. Fig. 3 is a representation of the same after being coiled. Fig. 4 is a cross-section through the center of the barb after the latter has been seated. Fig. 5 exhibits modifications of the mode of producing shoulders on the barb.

Similar letters refer to similar parts throughout the several views.

A is one strand of a fence-wire around which the barb B at or near its central portion is once coiled, as shown in the drawings herein.

B is a short piece of wire pointed at each end. A certain length of the central portion

of the barb B is given a flattened shape 1. This is the portion of said barb which in the coil of the latter about the wire A comes in close contact with said wire A and furnishes a flattened seat for said barb upon said wire A.

On the central portion of the barb B opposite to the aforesaid flattened portion 1 there is formed a second flattened portion 2, resulting in the creation of shoulders 3 3 at each end of said flattened portion 2. When the barb B is coiled about the wire A, the flattened portion 2 is of such length as that when the barb is placed, as aforesaid, upon the wire A the shoulders 3 3 will pass each other a sufficient distance to afford room between them for the seating of the companion fence-wire C. After the barb B is thus provided with its flattened sides 1 and 2 it is coiled about the wire A and the companion fence-wire C intertwisted spirally with the wire A and forced into contact with the barb B between the shoulders 3 3, as shown in Fig. 4. It is desirable that the flattened portion 1 be something shorter than the flattened portion 2, so that when the barb B is coiled about the wire A the shoulders 4 4 at each end of the inner flattened portion 1 are nearly or quite in contact where the respective ends of said barb pass each other when coiled, and thereby indent themselves in the wire A to further assist in holding said barb from rotating laterally on the wire A, although this is not essential. The outside shoulders 3 3 may be created by notching, as shown in Fig. 5, or by leaving about the center third of the barb intact and flattening from said center outward, as shown in said figure. In the latter construction the distance between the shoulders 3 3 will be less than the length of portion 2, and shoulders 3 3 will lack the width of wire C of meeting.

The provision of the shoulders 3 3 have the twofold advantage of holding the wire in place and also in preventing the casual rotation of the barb B by the abutting of said shoulders 3 3 against the respective sides of the wire C. I am aware it is not new to create indentations in the fence-wire nor to flatten both sides of the wire barb the entire length of the latter; but my invention consists in providing shoulders on the exterior of the wire barb to engage the companion fence-wire, as aforesaid.

said, adapted to serve the function of preserving the mutual relation of the barb B to both of the fence-wires A and C. In fact, the shoulders 3 3 are more essential than the interior flattened portion 1, and the object of my invention will be well attained by the wire barb B, having simply exterior shoulders 3 3.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. The wire barb B, adapted to be coiled around a fence-wire A and provided with exterior notches or shoulders 3 3 and interior shoulders 4 4, substantially as shown, and for the purpose described.

2. The combination of the fence-wire A, barb B, coiled around said wire and provided with the exterior shoulders or notches 3 3, and the companion wire C, seated between said

shoulders or in said notches and intertwined with the wire A, substantially as shown, and for the purpose described.

3. The combination of the wire A, the barb wire B, coiled around said wire A and provided with interior flattened central portion 1 and shoulders 4 4 and exterior flattened central portion 2 and shoulders 3 3, and the companion fence-wire C, seated between said shoulders 3 3 and intertwined with said wire A, substantially as shown, and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB HAISH.

Witnesses:

CHARLES H. SALISBURY,
JOHN F. BERGQUIST.