

(No Model.)

A. J. UPHAM.  
FENCE BARB.

No. 301,186.

Patented July 1, 1884.

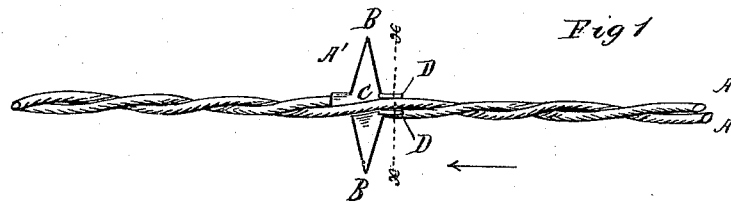


Fig 2

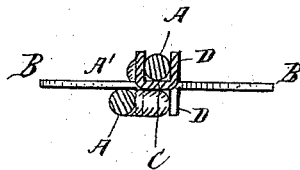


Fig 3.

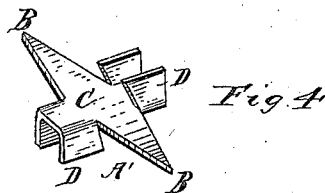
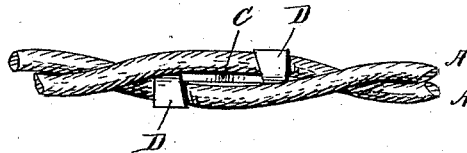


Fig 4

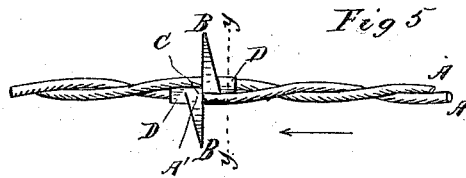


Fig 5

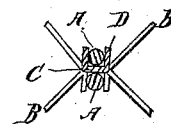


Fig 6

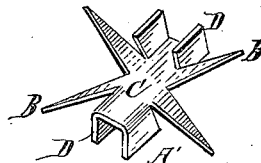


Fig 7

Witnesses  
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# UNITED STATES PATENT OFFICE.

ANDREW J. UPHAM, OF SYCAMORE, ILLINOIS, ASSIGNOR TO THE WASHBURN & MOEN MANUFACTURING COMPANY, OF WORCESTER, MASSACHUSETTS, AND ISAAC L. ELLWOOD, OF DE KALB, ILLINOIS.

## FENCE-BARB.

SPECIFICATION forming part of Letters Patent No. 301,186, dated July 1, 1884.

Application filed July 17, 1882. (No model.)

*To all whom it may concern.*

Be it known that I, ANDREW J. UPHAM, a citizen of the United States, residing at Sycamore, in the county of De Kalb and State of Illinois, have invented a certain new and useful Improvement in Barbed Wire, which improvement is fully set forth in the following specification, reference being made to the accompanying drawings, in which—

Figure 1 is a plan view of a section of barbed fence-wire embodying my improvement. Fig. 2 represents, upon an enlarged scale, a section on the line *x x* of Fig. 1, looking in the direction of the arrow, same figure. Fig. 3 represents, also upon an enlarged scale, a side view of a portion of the part shown in Fig. 1. Fig. 4 represents, also upon an enlarged scale, a perspective view of the sheet-metal barb complete, separate, and detached, as it appears when finished, ready to be fed in between the strands composing the main fence strand or cable shown in Figs. 1 and 3, as will be hereinafter more fully described. Fig. 5 represents a slight modification of my said invention, as will be hereinafter more fully described. Fig. 6 represents a cross-section on the line *y y*, Fig. 5, looking in the direction of the arrow, same figure; and Fig. 7 represents, upon an enlarged scale, the barb shown in Figs. 5 and 6.

My invention relates to barbed wire having barbs made from sheet metal; and the object of my invention is the production of a sheet-metal barb of such form and construction as that it can be quickly fed in by hand between the main strands of wire as they are fed forward and cabled or twisted together, while at the same time the barb will be held secure in place between the cable-strands and prevented from any lateral or rotary motion.

In the drawings, A A represent two strands composing a fence-wire, twisted together in the usual manner, and carrying at suitable intervals sheet-metal barbs A', each of which barbs is composed of a piece of sheet metal which is cut so as to produce points or barbs proper, B, projecting from opposite sides of a base, C, which base is provided with two pairs of lugs, D, which pairs of lugs are at

opposite ends of the base C of the barb, and project in opposite directions and respectively straddle the two wires, A A.

The modified form of my invention has two barbs on each side of the base C instead of one. As there are thus four barbs proper, they may be bent, as shown, so as to project in four different directions.

The lugs or ears D are wide enough apart to permit the strand of fence-wire to slip in between them in an easy manner.

It will be understood that the main fence-wires A A are drawn or fed through some proper guiding device which keeps them separated for a short distance from such point of separation, thereby enabling the attendant to place the barbs in position between the main strands of wire, preparatory to their being clamped in position as the wires are twisted or cabled together.

It will also be seen that the barbs can be manufactured separately and in large quantities, and then fed in by children, thus enabling barbed wire such as that shown in the drawings to be manufactured at a comparatively slight cost or expense. By so locating the sets or pairs of lugs that such sets project from both opposite sides and opposite ends of the plane of the body of the barb, the barb will much more certainly resist any tendency to displacement in any direction than where the lugs are otherwise located on the base or body of the barb.

The advantage, in a sheet-metal barb, of barb-points that lie in the plane of the cable over those that lie in planes transverse to the cable is that the former are so presented to animals encountering them as to have a long purchase at their bases whereby to resist displacement.

I am aware that barbs have sometimes been fastened to fence-cables by means of lugs arranged in pairs on opposite sides, so that each pair of lugs clasps a different strand of the cable; but I am not aware that two pairs of such lugs have ever before been so arranged in a barb as to admit of the latter being made of sheet metal by bending.

I am also aware that sheet-metal barbs have

been provided with lugs which were made to  
clasp the strands of the fence wire or cable by  
being bent around the same to such an extent  
as would necessitate their being bent during or  
5 after their incorporation into the cable; but  
the lugs of such barbs are necessarily longer  
than are the herein-described lugs, which are  
intended to clasp the cable-strands only to such  
an extent as is compatible with their being fed  
10 in by hand after the lugs have been bent into  
their final position.

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

The sheet-metal barb A', having points B 15  
B, and provided with two pairs of lugs, D D,  
located at the ends of the base C, and project-  
ing therefrom respectively in opposite direc-  
tions, in combination with the twisted strand-  
wires A A, straddled by said lugs, as shown 20  
and described.

ANDREW J. UPHAM.

Witnesses:

GEO. R. CUTLER,  
J. W. MILLINGTON.