

T. SHUMAN.
Barb Wire-Fence.

No. 215,404.

Patented May 13, 1879.

Fig. 1

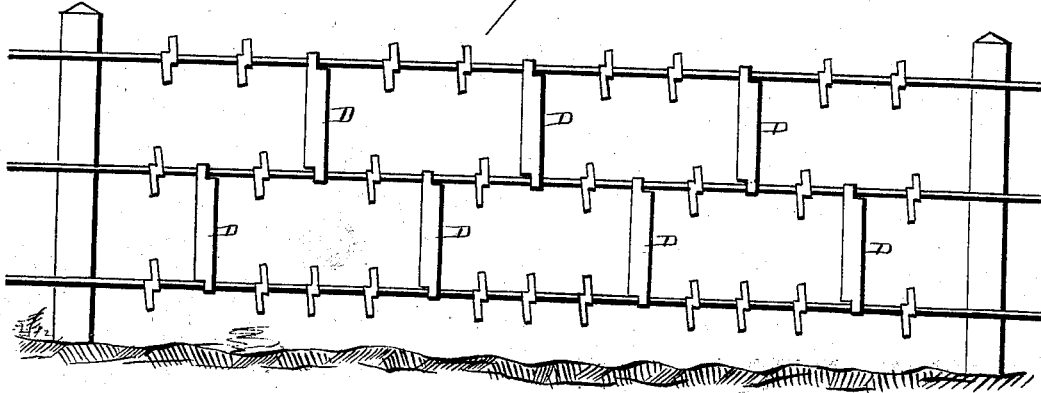


Fig. 2.

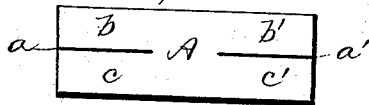


Fig. 3.

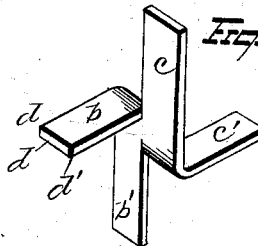


Fig. 4.

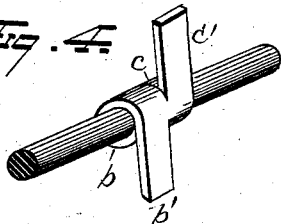


Fig. 5.

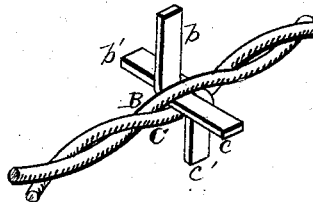
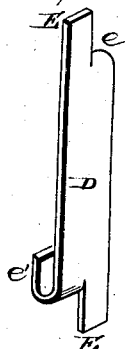


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS SHUMAN, OF CORNING, IOWA, ASSIGNOR OF ONE-HALF HIS RIGHT
TO GEORGE A. MORSE, OF SAME PLACE.

IMPROVEMENT IN BARB-WIRE FENCES.

Specification forming part of Letters Patent No. **215,404**, dated May 13, 1879; application filed
February 10, 1879.

To all whom it may concern:

Be it known that I, THOMAS SHUMAN, of Corning, in the county of Adams and State of Iowa, have invented certain new and useful Improvements in Barb-Wire Fences; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in barb-wire fences.

Heretofore wire fences have generally been provided with sharp-pointed barbs or thorns, made either of wire or sheet metal, and applied to the wire fence. Sharp-pointed barbs are objectionable, for the reason that they lacerate and injure the stock in the inclosure; and, again, the sharpened points are not readily seen by the stock, so that many injuries result when no attempts are being made to break through the fence, but the stock accidentally rub against and are lacerated by the sharpened barbs or thorns.

The object of my invention is to obviate the defects above noted; and to this end my invention consists in the combination, with a single or double strand of wire, of any desired number of sheet-metal attachments, each consisting of four rectangular arms made in single piece, the outer ends of the arms being cut at right angles to their length, two of said arms being bent in opposite directions around the wire, the extreme ends of said bent arms abutting against the other arms of the attachment, whereby the arms present sufficient surface to be readily observed by the cattle, and the corners of the square ends of the arms prevent the stock from rubbing against or breaking down the fence.

In the accompanying drawings, Figure 1 is a side elevation of a fence embodying my invention. Fig. 2 is a plan view of one of the sheet-metal blanks after being cut and before the arms are bent in proper shape. Fig. 3 is a view, in perspective, of one of the attachments. Fig. 4 is a view, in perspective, of one of the attachments applied to a single strand of wire. Fig. 5 is a similar view, showing one of the at-

tachments applied to a double-stranded wire. Fig. 6 is a view, in perspective, of one of the stay-strips.

A represents a rectangular blank of sheet metal, steel being preferred. Blank A is slitted at *a a'* by shears or suitable dies, and the arms *b b' c c'* bent in opposite directions, as illustrated in Fig. 3.

It will be observed that the outer end, *d*, of such arm is cut at right angles to the length of the arm, thus constituting the two sharp corners *d d'* upon the end of each arm, or eight points upon the complete device.

In Fig. 4 the device is shown as being attached to a single strand of wire, the arms *b c* being bent around the wire, while the arms *b' c'* project outwardly therefrom. This form of attachment gives a firm bearing for each device upon the wire, and prevents the device from being displaced when subjected to any ordinary strain.

In Fig. 5 the device is shown as attached to a double strand of wire, the arms *b c* and *b' c'* being bent in opposite directions, and one strand, B, passing between the arms *b c*, and the opposite strand, C, extending between the arms *b' c'*, thus firmly securing the device against displacement.

Staying-strips D are secured to the adjoining strands or wires of the fence, as illustrated in Fig. 1. Each strip D is provided with loops *e e'*, formed, respectively, on its upper and lower ends thereof, which loops are turned over the wires and serve to keep them from sagging, and thus preserve the fence intact. Each strip D is also provided with square-ended arms E, which serve as additional prevention against the escape of stock.

I am aware that stay-strips provided with sharp-pointed barbs have heretofore been employed, and hence I make no claim to such construction.

I am aware that wire fences have been provided with blunt-pointed prongs, consisting of sheet-metal strips slitted at either end and twisted around the fence-wire, and also of sections of wire rope, with the strands at opposite ends untwisted to form blunt-pointed prongs; and hence I make no claim to such construction.

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

The combination, with a fence-wire, of a sheet-metal attachment made from a single piece of sheet metal, and consisting of four rectangular arms, *b b' c c'*, two of said arms being bent in opposite directions around the wire, the extreme ends of said bent arms abut-

ting against the other arms of the attachment, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of January, 1879.

THOMAS SHUMAN.

Witnesses:

F. O. DUNBAR,

W. S. HANSON.