

C. BRUNNER & H. REYNOLDS.  
Barbs for Fence-Wires.

No. 200,125.

Patented Feb. 12, 1878.

Fig. 1.

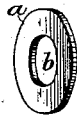


Fig. 2.



Fig. 3.

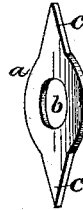
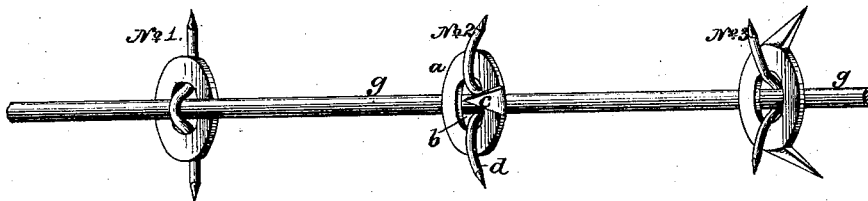


Fig. 4.



Fig. 5.



Attest.

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# UNITED STATES PATENT OFFICE.

CHARLES BRUNNER, OF PERU, AND HIRAM REYNOLDS, OF LA SALLE, ILL.

## IMPROVEMENT IN BARBS FOR FENCE-WIRES.

Specification forming part of Letters Patent No. **200,125**, dated February 12, 1878; application filed March 24, 1877.

*To all whom it may concern:*

Be it known that we, CHARLES BRUNNER, of Peru, and HIRAM REYNOLDS, of La Salle, in the county of La Salle and State of Illinois, have invented an Improved Barb for Fence-Wires, of which the following is a specification:

The object of our invention is to improve the manner of constructing and applying barbs to fence-wires.

It consists in forming sheet-metal barbed washers, and combining them with pointed wire staples and fence-wires, to form and fix barbs having three or more points, as herein-after fully set forth.

Figure 1 of our drawing is a perspective view, showing a plain circular sheet-metal plate and washer, *a*, having a central opening, *b*. Fig. 2 is a washer of corresponding form, having a barb-point, *c*, formed integral therewith. Fig. 3 is a washer of corresponding form, having two barb-points, *c c*, formed integral therewith and projecting in opposite directions. Any number of barb-points *c* may be thus formed on the washers *a* by means of dies, or in any suitable way that they can be cut from sheet metal. The central openings *b* can be cut at the same time and with the same dies, and preferably of oblong form. Fig. 4 is a perspective view of a pointed wire staple of common form, such as we combine with our sheet-metal washers to form fence-barbs. Fig. 5 is a perspective view, illustrating the construction and application of complete barbs.

No. 1 is a two-pointed barb, formed by combining a plain washer, *a b*, with the pointed staple *d* and a fence-wire, *g*, by simply pass-

ing the staple over the fence-wire, and its pointed ends through the opening *b* of the washer, and then spreading and bending outward at right angles the pointed ends of the wire staple by means of a hammer, or in any other suitable way that will draw and clamp and fix the staple and its washer rigidly to the fence-wire.

No. 2 is a three-pointed barb, formed and fixed on the fence-wire *g* in the same manner, by using a washer having a single barb-point, *c*.

No. 3 is a four-pointed barb, constructed and applied in the same manner, by using a washer having two barb-points, *c c*.

A series of barbs, each having a series of sharp points to repel animals and restrain them, can be thus readily and advantageously formed and fixed on single fence-wires, or wire cables composed of two or more strands, by means of common tools and unskilled labor.

We are aware that slotted pieces of sheet metal have been used in combination with pointed wire staples to form barbs; but we claim that our manner of forming barbed washers and combining them with wire staples on fence-wires is a novel and valuable improvement in the art of making barbed fences.

We claim as our invention—

The barbed washers *a b c*, in combination with the staples *d* and a fence-wire, substantially as and for the purposes shown and described.

CHARLES BRUNNER.  
HIRAM REYNOLDS.

Witnesses:

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