

(No Model.)

E. S. LENOX.
BARBED FENCE WIRE.

No. 300,783.

Patented June 24, 1884.

Fig. 2.

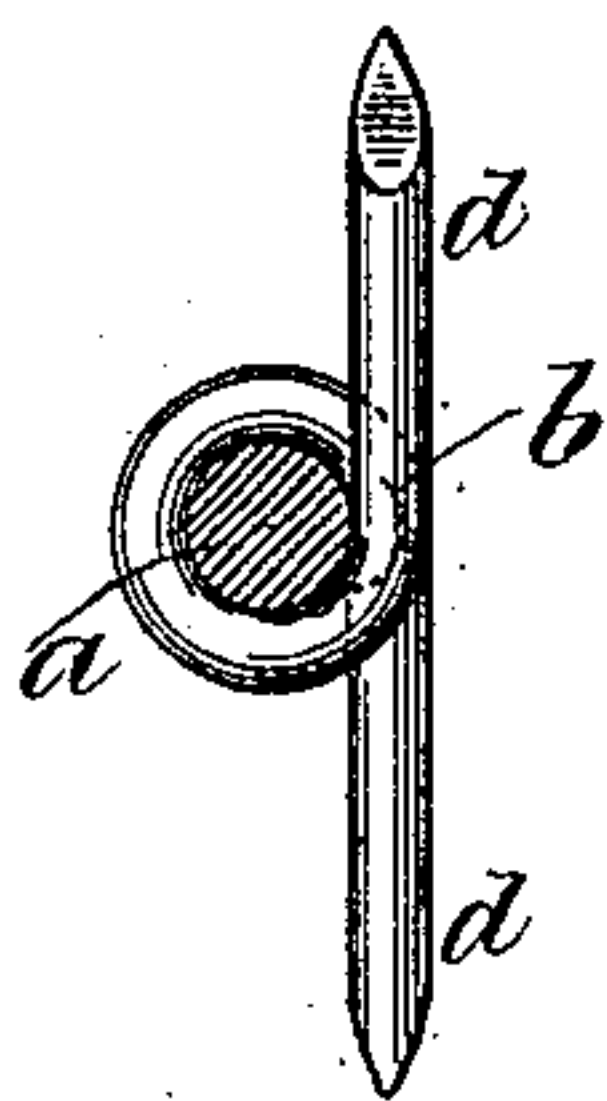


Fig. 1.

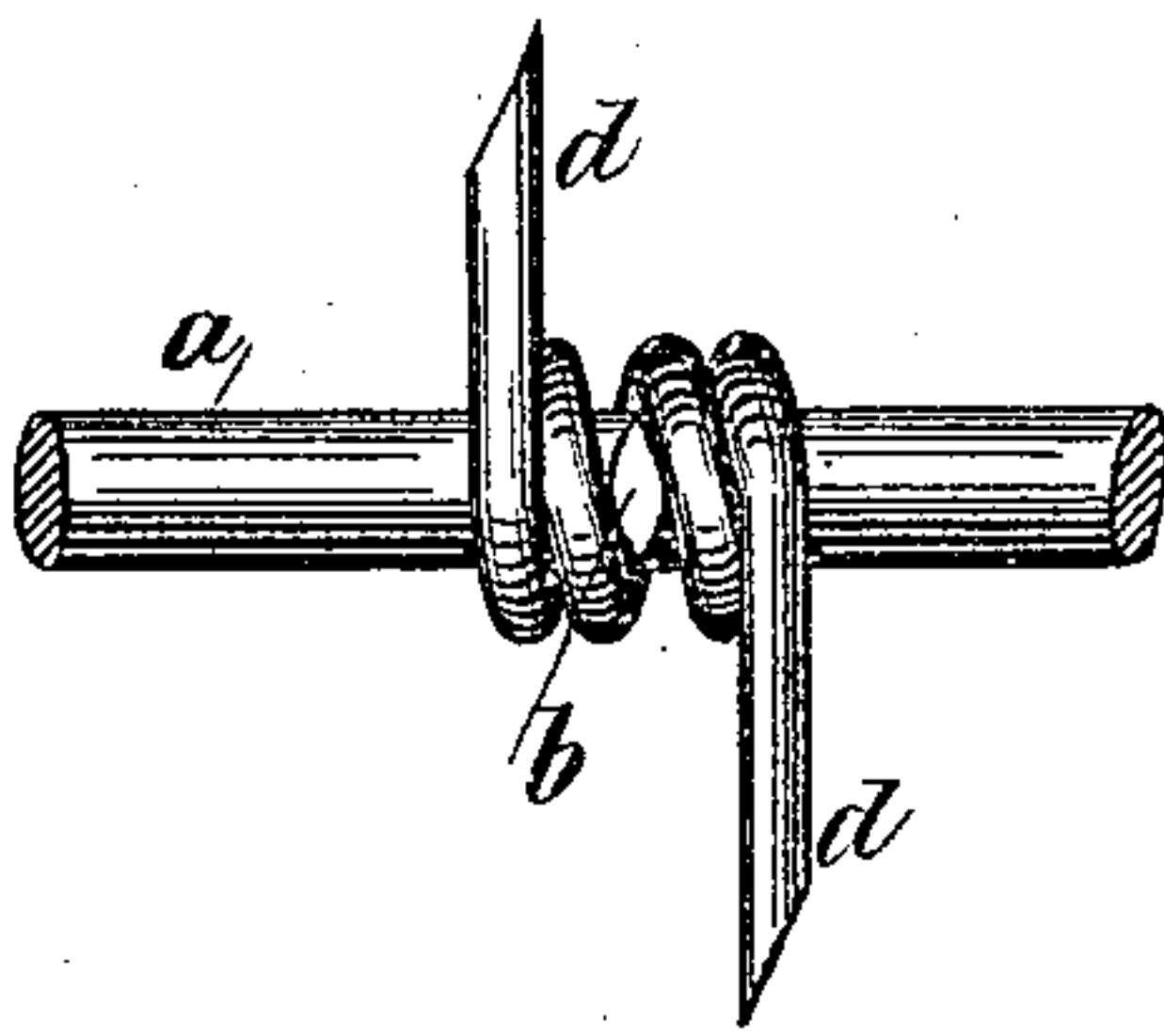
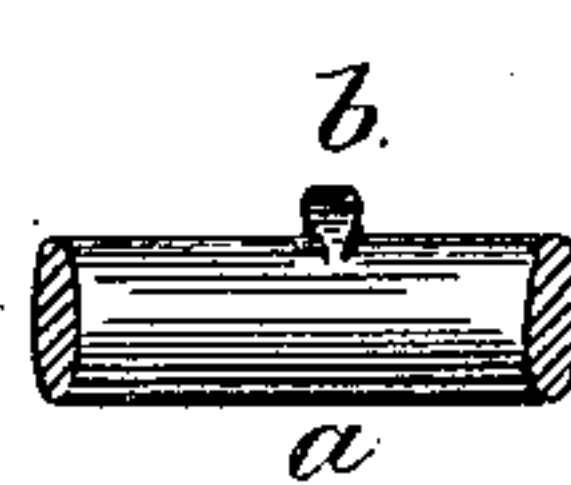


Fig. 3.



Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

EDWIN S. LENOX, OF WORCESTER, MASSACHUSETTS.

BARBED FENCE-WIRE.

SPECIFICATION forming part of Letters Patent No. 300,783, dated June 24, 1884.

Application filed May 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDWIN S. LENOX, of Worcester, in the State of Massachusetts, have invented an Improvement in Barbed Fence-Wire, of which the following is a specification.

Barbed fence-wire has been made in which the barb has been twisted around the longitudinal wire and compressed so that the barbed wire is indented more or less into the longitudinal wire. This has been done for the purpose of preventing the barbs moving upon the wire; but the longitudinal wire is weakened by being reduced in size where the compression takes place. In other instances bends have been made in the wire, and the wire has also been formed with burs by incisions into the wire, or by upsetting it endwise so as to form projections that hold the barbs. All these tend to injure the wire.

My invention relates to a barbed fence-wire having projections on one or more sides thereof, in combination with barbed wires wrapped around the longitudinal wire so as to be held in place by said projections. These projections hence prevent the barbs slipping endwise upon the fence-wire or revolving around the same, and the fence-wire is not weakened, because I employ a longitudinal wire that is rolled down to the proper size, leaving projections at the desired distances apart, at the sides of which such barb-wires are wrapped.

In the drawings, Figure 1 shows a piece of fence-wire with the barb around the same. Fig. 2 is a cross-section. Fig. 3 is a separate cross-section of the wire, and Fig. 4 is a side view of the wire.

The wire *a* is to be of a uniform or nearly uniform size throughout, except at the pro-

jections *b*, which are on one or both sides of the wire, and such projections are left when the wire passes through its last rolling operation, so that the section of the wire through the projection is but little changed by the rolling of the wire the last time.

The barbs *d* are made of one or two pieces of wire, pointed at the ends and wrapped around the fence-wire *a* in such a manner that one or more convolutions come at opposite sides of the projection *b*; hence such barbs cannot slip along upon the fence-wire. Neither can such barbs revolve if the projection is only at one side, because the portion of the wire between the convolutions crosses the path of the projection *b*, as shown in Fig. 1. I however may use two projections near each other, and wrap the barb around the wire between such projection.

I do not limit myself to any particular character of barb or barb-wire, as these may be varied without changing the character of my invention.

More than one longitudinal wire may be used, if desired, and the barbs may be made of two wires interlocked.

I claim as my invention—

The combination, in a barbed fence-wire, of a longitudinal wire having projections at intervals, and barb-wires twisted around the longitudinal wire with the convolutions at both sides of the projections, substantially as set forth.

Signed by me this 21st day of May, A. D. 1883.

EDWIN S. LENOX.

Witnesses:

GEO. T. PINCKNEY,
WILLIAM G. MOTT.