

(No Model.)

W. BURTIS.  
BARBED FENCE WIRE.

No. 309,924.

Patented Dec. 30, 1884.

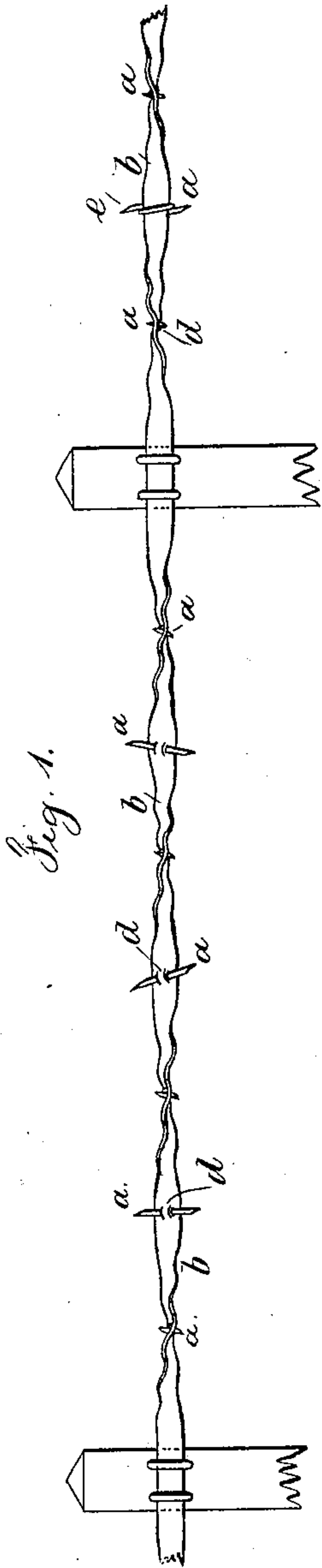


Fig. 1.



Fig. 4.

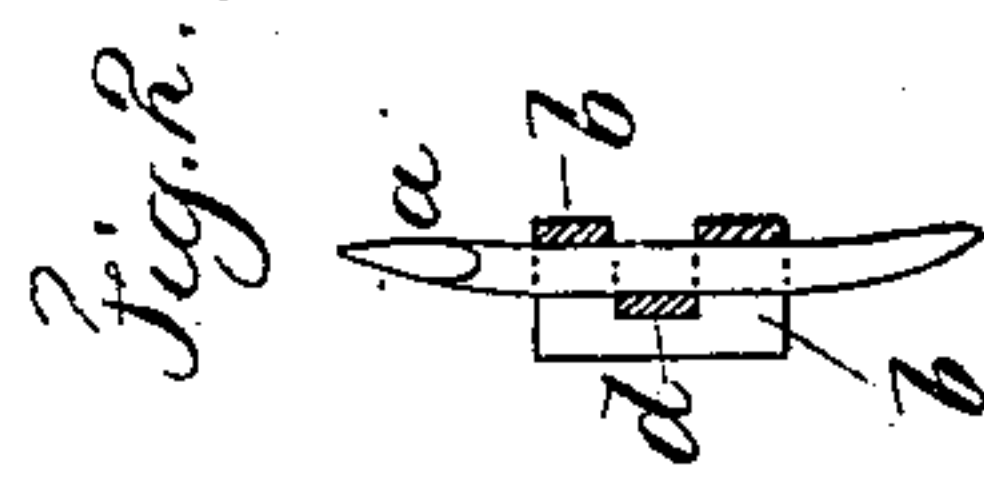


Fig. 2.

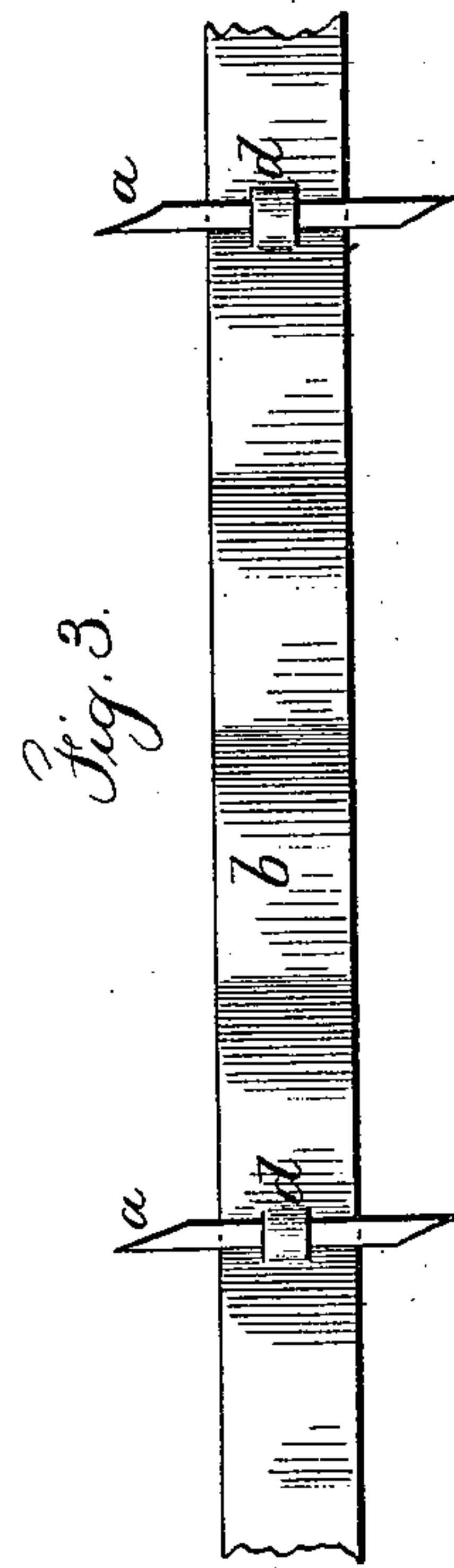


Fig. 3.

Witnesses

Chas. H. Smith  
Harold Ferrell

Inventor

William Burtis

per Lemuel W. Ferrell

att'y

# UNITED STATES PATENT OFFICE.

WILLIAM BURTIS, OF NEW EGYPT, NEW JERSEY.

## BARBED FENCE-WIRE.

SPECIFICATION forming part of Letters Patent No. 309,924, dated December 30, 1884.

Application filed January 7, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM BURTIS, of New Egypt, in the county of Ocean and State of New Jersey, have invented an Improvement in Barbed Fence-Wire, of which the following is a specification.

Fence-wires have been made of iron strips or ribbons of various widths, generally about half an inch, and the barbs have been cut up on such ribbons in different ways, and in some instances the barbs have been fastened upon the strip.

In the manufacture of iron fences the bars or wires have been corrugated to a greater or less extent, and usually rendered ornamental by such corrugation. In my improvement I make use of a strip or ribbon of iron, to which the barbs are permanently connected, and I corrugate said strip and twist the same between one post and the next.

The object of this improvement is threefold. In the first place, the barbs are easily attached to the strip, and are held in a fixed position in relation to the edge thereof. In the second place, the strip or ribbon is made elastic by the corrugation, so that it can be stretched in the act of twisting the same, and will maintain the proper tension without the posts being unduly strained, and expansion and contraction are allowed for; and in the third place the twisting of the strip causes the barbs to project at different angles to the plane of the fence, so as to act against cattle that may press upon the same. For these reasons my fence-wire possesses properties that are not

found in any wire that has heretofore been made.

In the drawings, Figure 1 represents a piece of such fence-wire twisted; and Fig. 2 is a cross-section, and Fig. 3 a side view, in larger size, of a piece of such fence-wire. Fig. 4 is an edge view of the same.

The barbs *a* are of any desired character. I prefer to introduce the same in the manner shown at *d*, where the wire *b* has longitudinal incisions and transverse crimps for receiving such barbs *a*; but the barbs may be twisted around the wire, as at *e*.

The corrugations or zigzag bends in the wire *b* are preferably about an inch long, and either straight across or more or less diagonal.

I do not claim a corrugated wire provided with projecting points; neither do I claim a wire with barbs attached and twisted. Where the strip has been corrugated, the bends have been sudden and the wire is liable to stretch. By my improvement the bends are gradual, and the wire is twisted as well as corrugated.

I claim as my invention—

The fence-wire consisting of a metal strip with zigzag bends at intervals, and metallic barbs thereon projecting at the edges, and the strip twisted so that the barbs project at different angles to the plane of the fence, substantially as specified.

Signed by me this 3d day of January, A. D. 1884.

Witnesses: WILLIAM BURTIS.  
G. H. JOHNSON,  
WALTER COTTRELL.