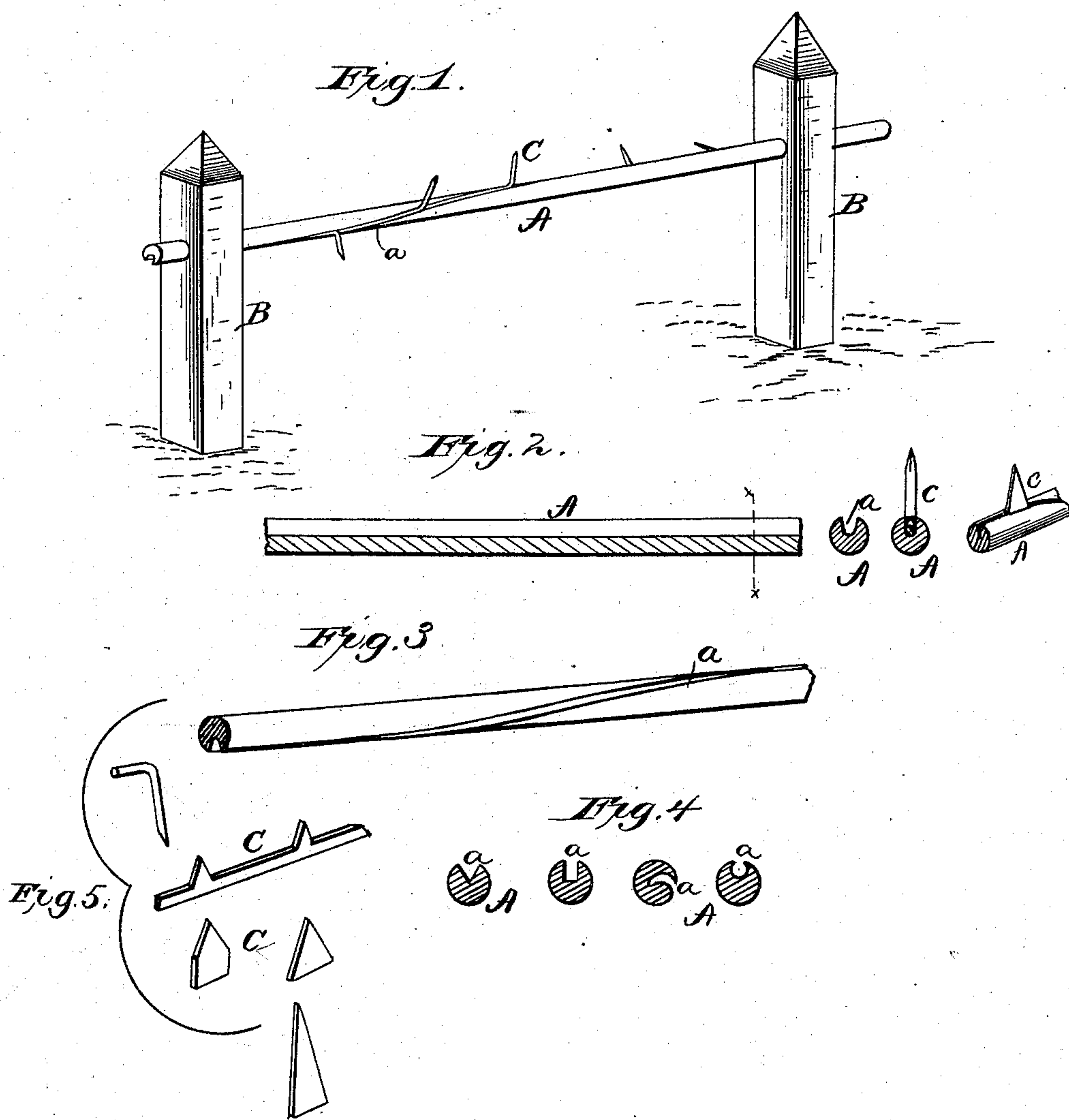


(No Model.)

A. J. UPHAM.
Metallic Barb Fencing.

No. 239,891.

Patented April 5, 1881.



Witnesses,
H. L. Ourand
George Connell.

Inventor,
Andrew J. Upham
by L. Deane.
his Atty.

UNITED STATES PATENT OFFICE.

ANDREW J. UPHAM, OF STERLING, ILLINOIS.

METALLIC-BARB FENCING.

SPECIFICATION forming part of Letters Patent No. 239,891, dated April 5, 1881.

Application filed February 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, ANDREW J. UPHAM, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Metallic-Barb Fencing; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a view in perspective of a fence-panel in which the rails are made according to the present invention. Fig. 2 is a sectional view (enlarged) through the rail and barb. Fig. 3 is a perspective view of the rail before the barb has been fixed in it. Fig. 4 shows some modifications in constructing the groove in the rail or wire. Fig. 5 shows different styles of the barb.

The object of this invention is to produce a fencing material of metal provided with suitable barbs, arranged in more or less regular order about its periphery and at equal or nearly equal intervals along its length. The details of all this I will now more fully set out and explain.

In the accompanying drawings, A denotes any rail, bar, rod, or wire stretched between or fixed in or on posts B B, said rail, bar, rod, or wire being made of metal.

In constructing a fence-panel any desired number of the horizontal rails, bars, rods, or wires may be used. This fencing material is made by running a suitable groove, *a*, along the bar, rod, rail, or wire, the edges of which are then closed down tight on the wire, preferably by twisting said rail, bars, rod, or wire. At proper intervals along into the line of the

opening, as the twisting or closing goes on from one end continuously forward, are fed right-angled or triangular or other suitably-shaped pieces of metal or wire C, and as the edges of the groove close upon the barb in the process of closing the groove together the barb will be caught by its end and held firmly in place, being compressed rigidly between the two edges of the groove or slot. The spiral course of the twist will cause the barbs to project alternately up, out, down, and out along the length of the rail. The barbs will be fed into the groove so as to come at proper intervals along the line of the rail, bar, rod, or wire. This groove may be made in any desired way. In the drawings I have shown several different forms merely for illustration, but not for the purpose of going over the entire range of variation, which can be made in this respect without essentially departing from my invention.

It is obvious that the compression may be had in an untwisted rail, like as is shown in Fig. 2, and that such a rail comes within the aim and scope of this invention.

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

1. A wire, bar, or rod of metal having a groove along its length in which is held a barb, substantially as shown and described.
2. The fencing material herein described, consisting of rail or wire A, grooved lengthwise at *a*, and having combined with it the barb C, made of a separate piece, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

ANDREW J. UPHAM.

Witnesses:

L. C. JOHNSON,
C. F. BEHREND.