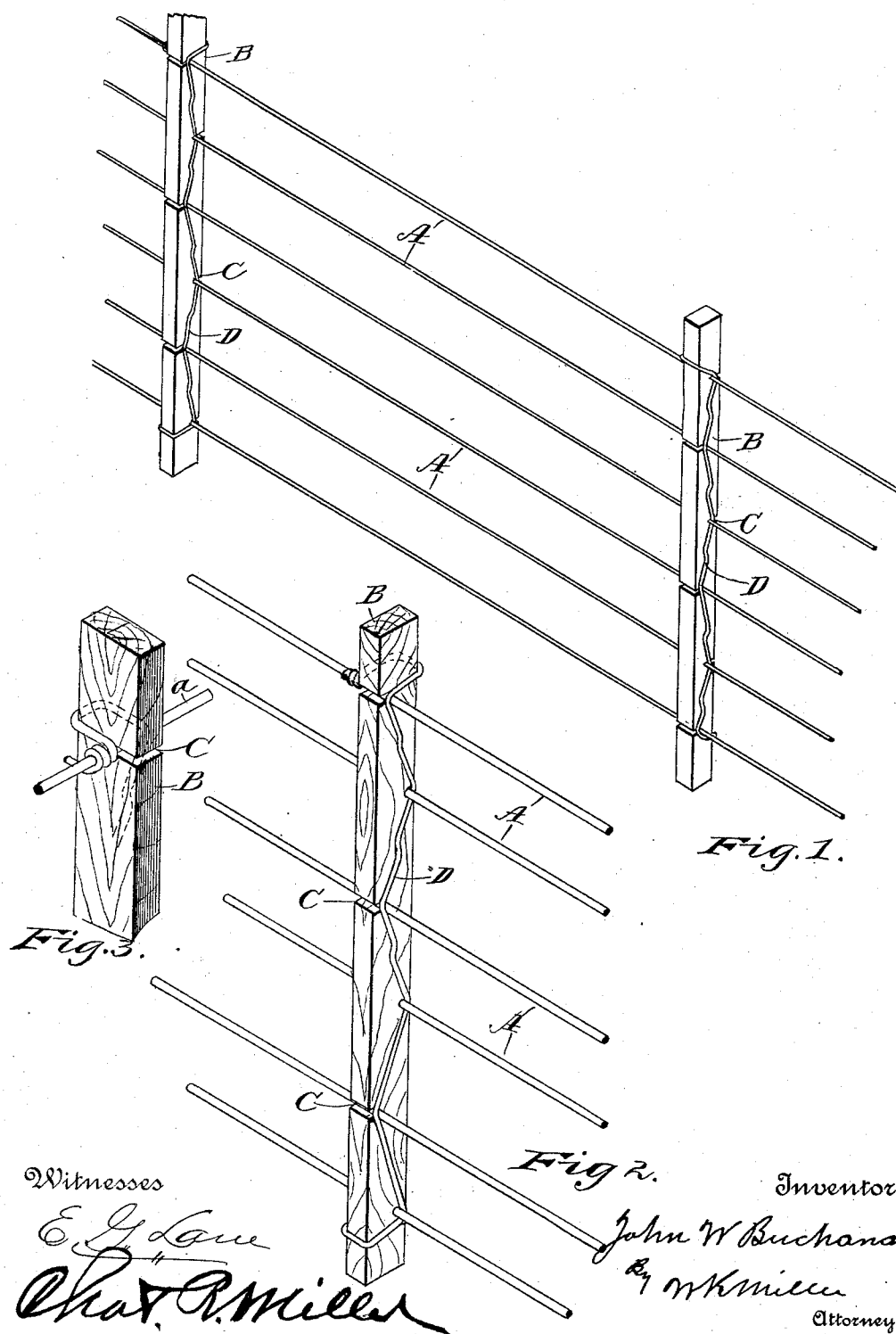


(No Model.)

J. W. BUCHANAN.
WIRE FENCE.

No. 483,831.

Patented Oct. 4, 1892.



UNITED STATES PATENT OFFICE.

JOHN W. BUCHANAN, OF SMITHVILLE, OHIO.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 483,831, dated October 4, 1892.

Application filed June 20, 1892. Serial No. 437,269. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. BUCHANAN, a citizen of the United States, and a resident of Smithville, county of Wayne, State of Ohio, have invented a new and useful Improvement in Wire Fences, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in wire fences, and more particularly to an improvement on the wire fence shown and described in Letters Patent No. 453,542, granted to me June 2, 1891; and it consists in providing means for securing the spacing or stay bar to the wires or in operative position and prevent lateral movement or displacement.

With these ends in view my invention consists of certain features of construction and combination of parts, as will be hereinafter described, and pointed out in the claims.

Figure 1 of the accompanying drawings is a view in perspective of a portion of wire fence, illustrating my invention; Fig. 2, a similar view, enlarged, showing the manner of securing the spacing stay-bar to the wire; Fig. 3, a similar view showing the lower end portion of the stay-bar inverted and the manner of securing the stay-wire to the fence-wire.

Referring to Fig. 1 of the drawings, that portion of a panel between two supporting posts is illustrated, A representing the individual fence-wires which pass through the supporting-post.

B represents the stay-bar, in which is provided at the two opposite edges a series of alternating kerfs C, spaced to correspond with the spacing of the fence-wires A. After the fence-wires A are strung and stretched the stay-bar B is passed or woven flatwise down alternately between until in position, the kerfs registering with the wires. The bar is then turned transverse the line of the fence, the wire A entering into the kerfs C. To secure the stay-bar in position, a stay-wire, as D, is secured to the lower fence-wire, as shown in Fig. 3, and carried about the bar and the outside of the lower fence-wire A, thence back and about the second wire A, and so up to

and including the top wire A, thence about the top portion of the bar B, and secured to the wire, as shown in Fig. 2. The wire D as now put in will be straight from wire to wire, as shown, between the lower and third wires, Fig. 2, and to further tighten the stay-wire D on the fence-wire, it is grasped by pliers and bent, as shown in Fig. 1 and the upper end portion of Fig. 3. By this means the wire D may be drawn very tight over the wires A to secure them in the kerfs C, and thereby prevent the bar turning and throwing the fence-wire out of the kerfs as well as from lateral movement.

As heretofore constructed the bars were liable to be moved laterally and often displaced by the rubbing of cattle or swine against them. The object is to provide a stay-bar having on its opposite edges kerfs or notches to receive the fence-wires and a binding-wire by which the bar and the fence-wires are secured together in such manner as to prevent displacement. The fence-wires A may be tightened or loosened individually to adapt the fence to change of temperature.

In a fence so provided with small and light stay-bars placed and secured as hereinbefore stated the supporting-posts may be placed at a distance of thirty-two feet apart, using three or four stay-bars between them, thus reducing the initial cost.

Having thus fully described the nature and the object of my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with a series of fence-wires A, placed in vertical order, of a spacing stay-bar B, provided on its opposite edges with alternate kerfs C to embrace and hold said wires at a previously-determined distance apart, and a binding or stay wire D to secure said fence-wires in the kerfs and adapted to be tightened thereon, substantially as described, and for the purpose set forth.

2. A fence-panel consisting of a series of fence-wires arranged one above the other, a spacing stay-bar provided on its opposite edges with alternating kerfs to embrace and space said wires apart, and a stay-wire pass-

ing in and out through said fence-wires and
having its ends lead around the opposite
edges of the stay-bar and coiled around the
lower and upper fence-wires, said stay-wire
5 being crimped after being placed in position
to securely retain the fence-wires in the kerfs,
substantially as set forth.

In testimony whereof I have hereunto set
my hand this 9th day of June, A. D. 1892.

JOHN W. BUCHANAN.

Witnesses:

W. K. MILLER,
CHAS. R. MILLER.