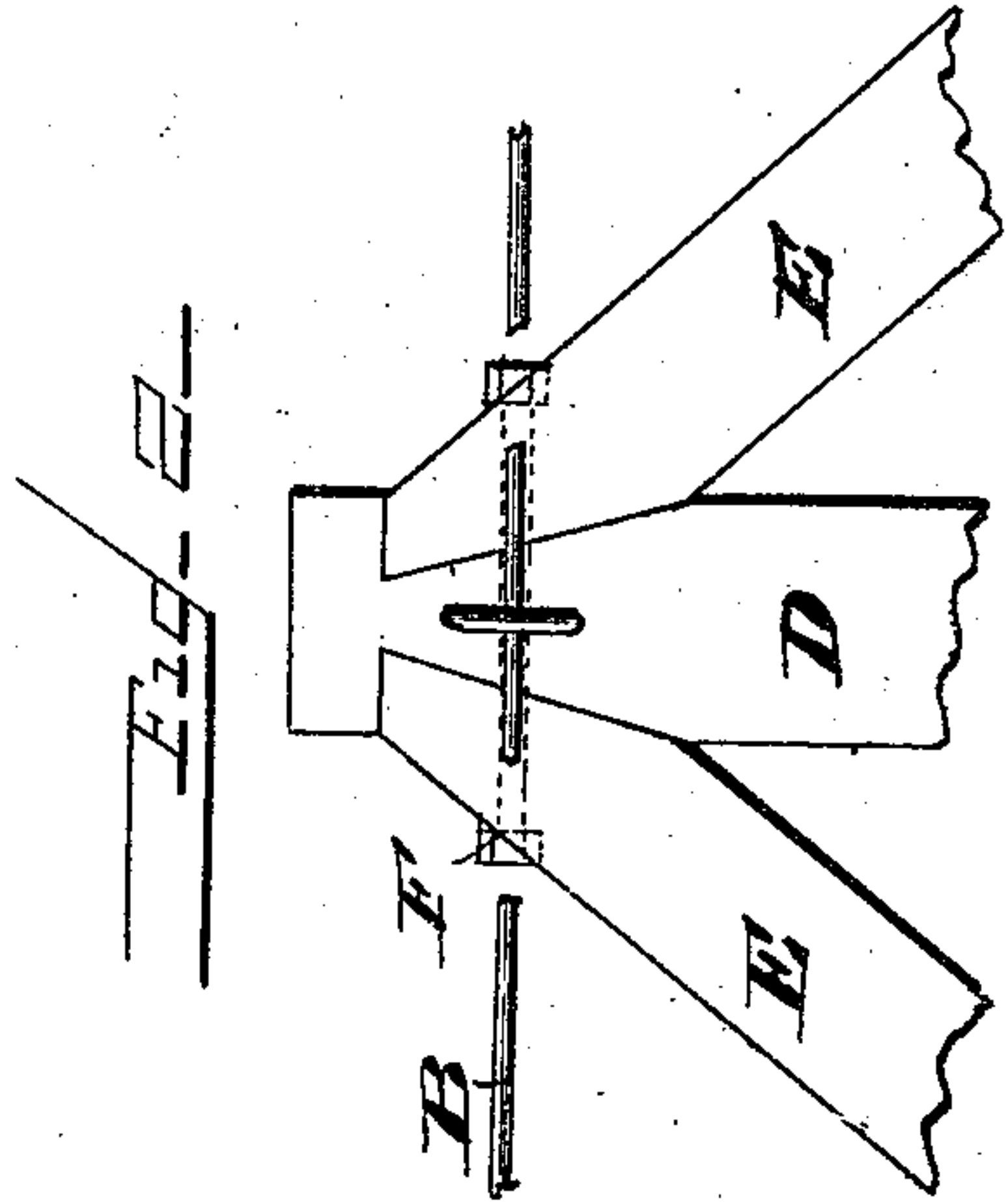
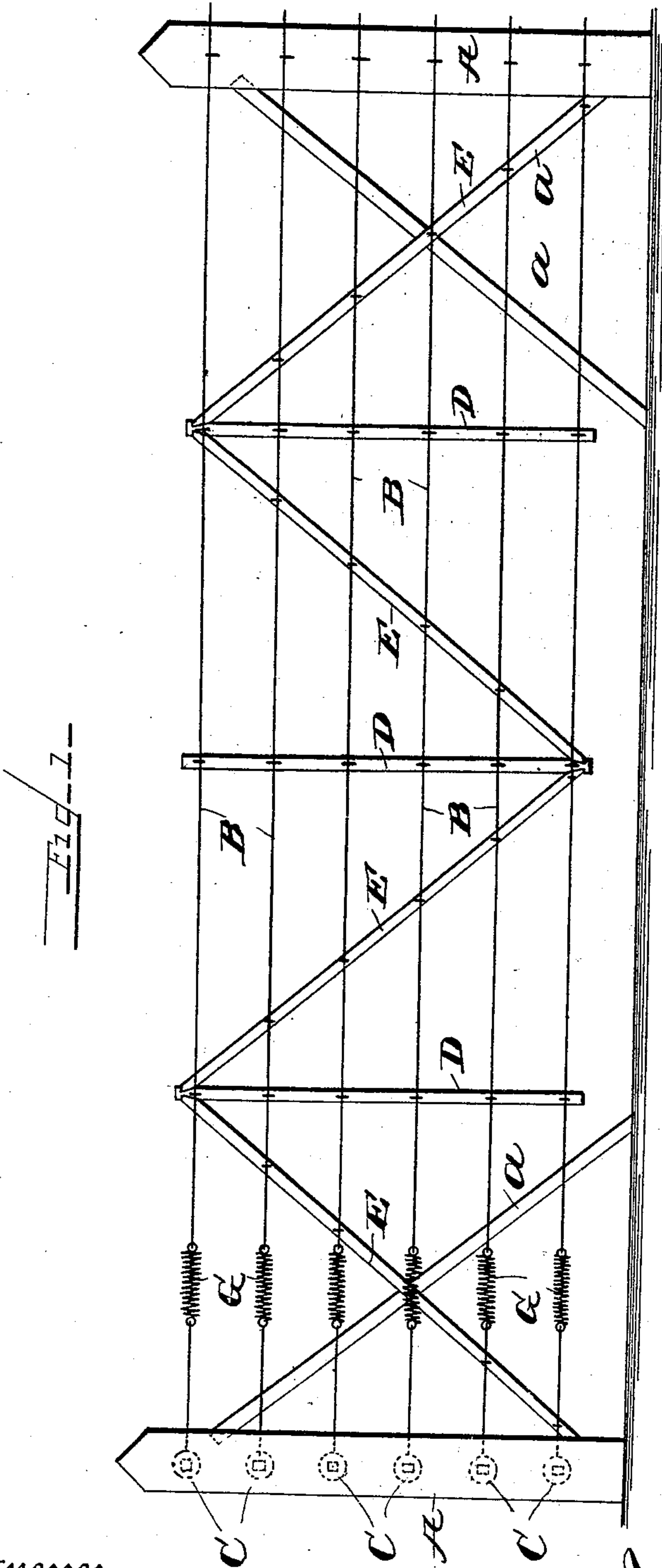


(No Model.)

I. C. ALLEN.  
WIRE FENCE.

No. 515,316.

Patented Feb. 27, 1894.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ISAAC C. ALLEN, OF WILLIAMSPORT, PENNSYLVANIA.

## WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 515,316, dated February 27, 1894.

Application filed August 22, 1893. Serial No. 483,718. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC C. ALLEN, a citizen of the United States, residing at Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Wire Fences; 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.

My invention is an improvement in wire fences and consists in the novel features of construction hereinafter described, reference being had to the accompanying drawings which illustrate one form in which I have contemplated embodying my invention and the said invention is fully disclosed in the following description and claims.

Referring to the said drawings, Figure 1 is a side elevation of a panel of fence constructed according to my invention. Fig. 2 is an enlarged view illustrating the manner of connecting the vertical stay rods and diagonal braces.

The object of my invention is to construct a wire fence of a very rigid nature, so that it will not be pulled down or bent out of shape by pressure brought to bear upon it by animals, or from other sources.

In the drawings A A represent vertical posts of any preferred form inserted in the ground for supporting a panel of fence between them and provided with the usual brace bars *a a*. The posts may be placed at any distance apart as found most convenient. The wires B B will be run from one post to another in the usual manner, and secured to each post by staples or other preferred means.

At one end of the fence I prefer to provide each wire with a tightening device, of any usual or preferred construction, as indicated in dotted lines at the left at C C C in Fig. 1, so that the wires may be drawn taut as is customary in the construction of wire fences.

At suitable intervals between adjacent supporting posts A A I provide vertical stay rods D D preferably of wood, arranged at equal distances from each other and from the posts A A. These stay rods D D are secured to the fence wires B B by staples or other securing devices. I then run a series of diagonal braces E E from the bottom of one post to the top

of the adjacent stay rod D, from the top of stay rod to the bottom of the next stay rod, and so on alternately to the other post A, and the braces E are rigidly secured to the stay rods D D and to the posts A A. The wires B B are also secured to the braces, as shown by staples or other devices.

I have shown in the drawings (seen best in Fig. 2) the manner in which I prefer to connect the stay rod D and braces E E at either the top or bottom of the fence. The upper or lower end of the stay rod D (as the case may be) is provided at each side with a notch or recess, to receive the ends of the braces E which are formed so as to fit said recesses and the parts are then secured rigidly together by retaining devices as a bolt F and nut although they might be secured by nails or screws or other means if desired.

Any number of stay rods and braces may be employed between two adjacent posts, as found most convenient, and though but one panel of fence is illustrated in the accompanying drawings, it will be understood that all the panels of the fence are to be constructed in the same way. I also prefer to locate spring acting or automatic tension devices of any preferred form in each wire, as indicated at G G in Fig. 1 to compensate for the expansion or contraction of the wires by changes in temperature, and keep them always taut.

A fence constructed in accordance with my invention will be found to be extremely rigid and inflexible and the wires will readily bear the weight of a person in climbing over them without injuring the fence.

What I claim, and desire to secure by Letters Patent, is—

1. In a wire fence the combination with two adjacent supporting posts and a series of vertical stay rods disposed at intervals intermediate said posts, secured to said wires and unconnected with the ground, and a series of diagonal rigid braces extending from one post in zig-zag form to the other, said braces being connected alternately to the top and bottom portions of the vertical stay rods, substantially as described.

2. In a wire fence, the combination with the supporting posts, and a series of wires secured thereto, of a series of vertical stay rods, disposed at intervals intermediate said posts, and

secured to said wires, and a series of diagonal rigid braces extending in zig-zag form from one post to another and rigidly connected alternately to the top of one stay rod and the  
5 bottom of another, said braces being also secured to the wires, substantially as described.

3. In a wire fence the combination with two adjacent supporting posts and a series of wires secured thereto, of a series of vertical  
10 stay rods disposed at intervals intermediate said posts secured to said wires and unconnected with the ground and a series of diagonal rigid braces secured to said wires extending from one post to the other in zig-zag form

said stay rods alternately having their upper 15 ends and lower ends recessed to engage the ends of said braces, and bolts passing through said braces and stay rods adjacent to the recessed portions of the stay rods, to secure them rigidly together, substantially as described. 20

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

ISAAC C. ALLEN.

Witnesses:

N. B. WILSON,  
SAMUEL R. ROSE.