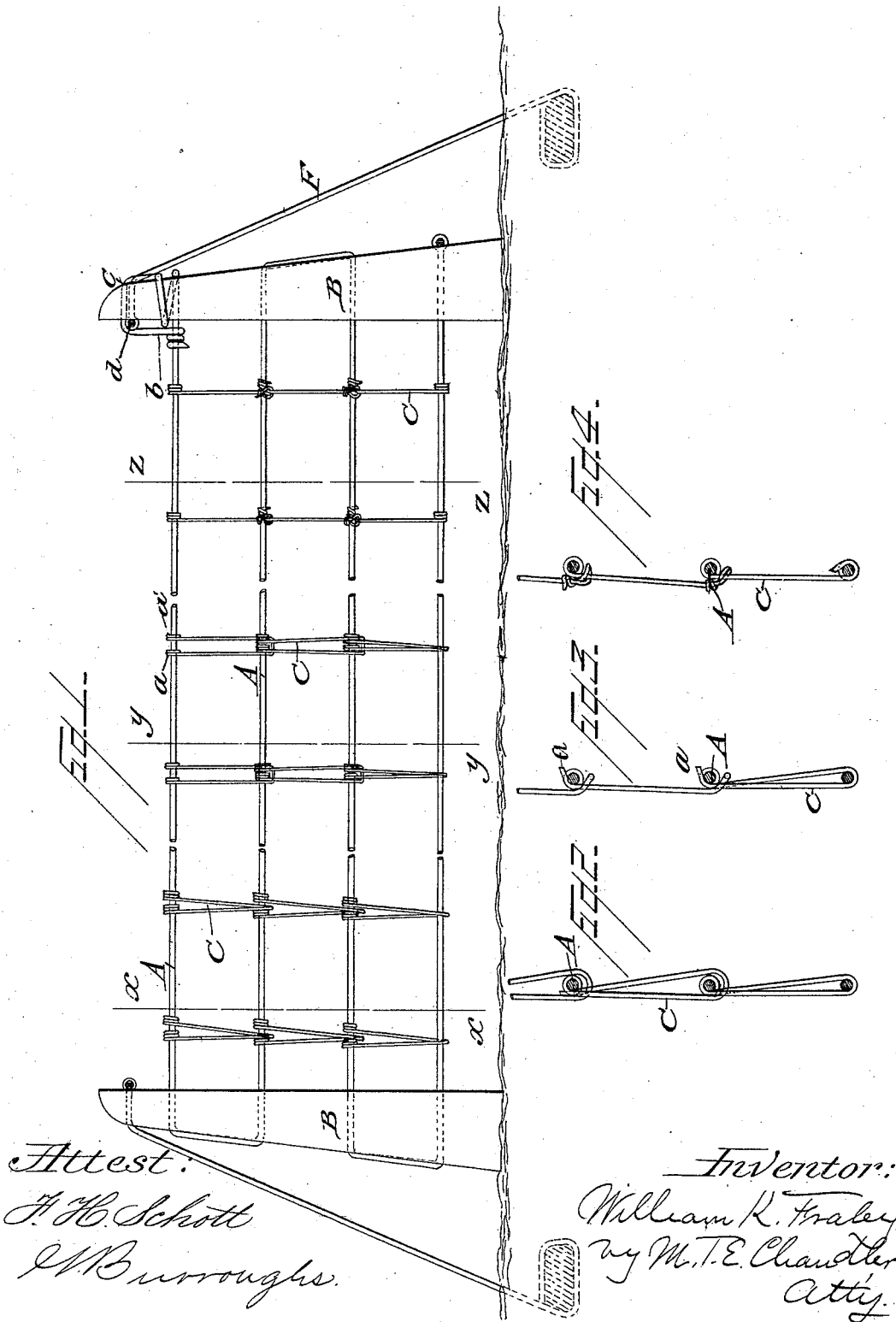


(No Model.)

W. K. FRALEY.
WIRE FENCE.

No. 422,052.

Patented Feb. 25, 1890.



Attest:
H. H. Schott
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Inventor:
William K. Fraley
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Atty.

UNITED STATES PATENT OFFICE.

WILLIAM K. FRALEY, OF LEBANON, INDIANA.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 422,052, dated February 25, 1890.

Application filed August 31, 1889. Serial No. 322,507. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM K. FRALEY, a citizen of the United States, residing at Lebanon, in the county of Boone and State of Indiana, have invented certain new and useful Improvements in Wire Fences; and I do 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 the letters of reference marked thereon, which form a part of this specification.

This invention has for its object to stay the runners of a wire fence between the supporting-posts, so as to hold the runners in their relative positions with regard to each other, unite them so that one wire will support another, and by such unity will add to the strength of the fence and give all the flexibility required for the fence as a whole.

This invention further relates to a means of securing the ends of a runner to the post to which it is to be attached.

The invention consists of the novel construction and combination of parts which are hereinafter described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the accompanying drawings, in which similar letters of reference designate corresponding parts, Figure 1 is a side elevation of a fence embodying the invention. Fig. 2 is a section through the line xx of Fig. 1. Fig. 3 is a section through the line yy of Fig. 1, showing a modification. Fig. 4 is a section through the line zz of Fig. 1, also showing a modification.

Referring to the drawings by letter, A represents the runners supported by the posts B, and C the stays uniting said runners.

In constructing the stay a piece of wire of the required length is fastened at one end a to a runner by winding it loosely around the same a sufficient number of times to hold it. It is then carried down and around the upper part of a similar stay fastened on the runner immediately below, then up and fastened at the end a' to the upper runner near where the other end is fastened, forming a loop which encircles the upper part of a similar stay immediately below.

In the modification shown in Fig. 2 the

loop, instead of passing around the stay attached to the runner below, passes around the runner. In Fig. 4 a single wire is shown.

When any unusual strain comes upon a wire, so as to have a tendency to depress it, the loop in which it rests and connects it with the runner above serves as an additional support. By this means the strain is distributed to all the upper wires, which lessens the danger of the runner being broken. If a runner should be broken, however, the broken ends, instead of hanging on the ground and leaving a gap in the fence, would be supported by the stays, giving the appearance of an unbroken fence. The loop which is formed in the lower end of the stay allows it to slide past the lower runner, which it supports, if the upper one should be depressed, without bending, which it would do if it were firmly attached to both runners.

In fastening a runner to the top of a post the end b is passed through a hole in the same, then entirely around the post, then up through a slot c in the top over the pin d , down to the runner, and wound around it a sufficient number of times to hold it. The object of this pin d is to give a better purchase for holding the wire while being wound around the runner, and it also serves as a means for attaching the anchoring-wire F to the strain-post.

I am aware that prior to my invention stays for wire fences have been made, as is shown in the patent to Lindley, No. 386,019. I do not, therefore, claim such construction.

Having described my invention, what I desire to secure by Letters Patent is—

In a wire fence, the combination of the runners A and the stays C, connecting said runners in the manner described, consisting of a piece of wire securely fastened close together at both ends to an upper runner, forming a loop, which extends downward and encircles the upper part of a similar loop fastened to the runner immediately below, substantially as and for the purpose specified.

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

WILLIAM K. FRALEY.

Witnesses:

A. H. HANN,
I. M. KELSEY.