

W. A. ELIASON.  
Farm-Fence.

No. 164,279.

Patented June 8, 1875.

Fig: 1.

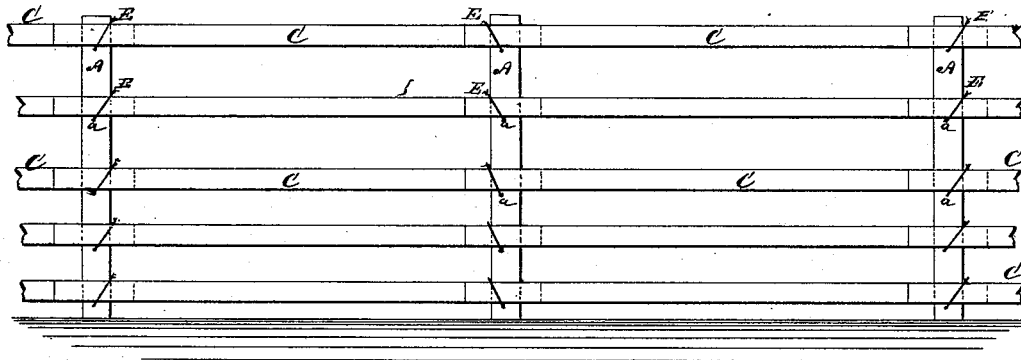


Fig: 2.



Fig: 3.



Fig: 4.

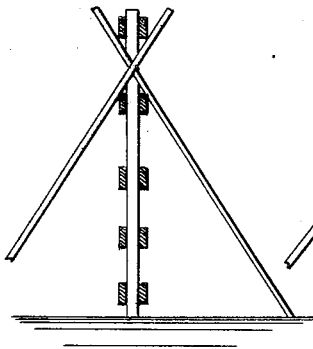


Fig: 5.

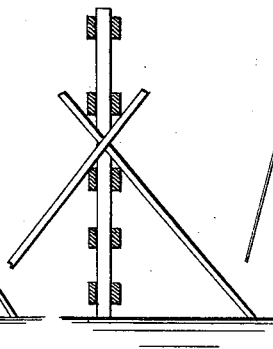


Fig: 6.

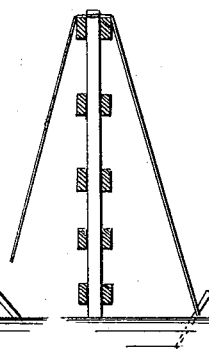
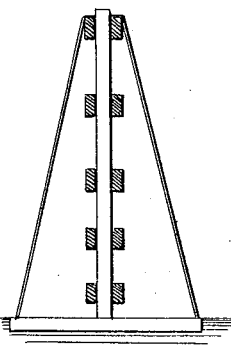


Fig: 7.



Witnesses:

*H. L. Mattenberg*  
*W. J. Miller*

Inventor:

*William A. Eliason*  
*per G. W. Simpson*  
*Att'y*

# UNITED STATES PATENT OFFICE.

WILLIAM A. ELIASON, OF STATESVILLE, NORTH CAROLINA, ASSIGNOR OF  
ONE-HALF HIS RIGHT TO JACOB H. BEST, OF SAME PLACE.

## IMPROVEMENT IN FARM-FENCES.

Specification forming part of Letters Patent No. **164,279**, dated June 8, 1875; application filed  
February 1, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM A. ELIASON, of Statesville, in the county of Iredell and State of North Carolina, have invented a new and useful Improvement in Fences; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

This invention is in the nature of an improvement in fences; and the invention consists in a fence constructed in such manner as that the rails of the fence will be held in position by wire loops, substantially in the manner hereinafter described.

In the accompanying sheet of drawings, Figure 1 is a side elevation of my invention; Fig. 2, a plan view; Fig. 3, a cross-section; and Figs. 4, 5, 6, and 7 views showing manner of securing posts on rock, &c.

Similar letters of reference indicate like parts in the several figures.

A represents a series of posts, the lower ends of which are securely embedded in the ground. At intervals through the center of each post are bored holes *a*, and through the holes are passed pieces of good substantial wire E, the ends of which are twisted together, so that the wire forms a ring, as shown in Figs. 2 and 3. The holes through the post are somewhat greater in diameter than the wire, the wire ring or loop moving freely up and down therein. These loops or rings being in this way secured to the posts, they are raised upward, and the rails C are inserted one on each side of the posts, the ends of each rail projecting beyond the posts, as shown in Fig. 2. When the rails are thus inserted their weight will cause the wire rings or loops to bear tightly to the upper surfaces of the rails, and also bind their sides closely to the sides of the post, holding them securely in position. In this way a durable and substantial fence is expeditiously made at but little comparative cost, and, at the same time, the full strength of the posts is preserved, since the necessity of cutting mortise-holes therein is avoided. In fact, the post is not in anywise

altered from its original state, excepting by the small holes *a* bored therein for the reception of the wire loops. In inserting the rails into the wire loops it is preferable that the loops around the rails should incline in opposite directions, as shown in Fig. 1, which will assist in preventing the rails from being slipped endwise out of the loops.

In constructing a fence substantially as hereinbefore described a post of comparative small thickness may be used without impairing the stability of the fence, since the posts are not slotted and are set sidewise, or with their greatest width parallel with the line of fence, the width of the post acting as a splice between the ends of the adjacent rails, and making them nearly contiguous throughout the entire fence. The rails in a fence of my construction do not come in contact with the posts, since the wire loops interpose to prevent this. This arrangement insures perfect circulation of air around the rails and posts, and adds to their durability. It will be seen, also, that each panel of my fence is dependent on and is supported by the contiguous panels on each side, so that the several parts of the entire fence form an integral part of the whole structure, producing a fence much stronger than would otherwise be the case.

In rocky or other places where a suitable hole for supporting the post cannot be found, the posts may be braced with supports or guyed with wire in any suitable manner.

I do not wish to limit myself to any particular manner of supporting or affixing the posts in an upright position; but

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

In a post and rail fence, the combination of wires E, forming loops on the front and rear of such posts, with the rails, in the manner described, whereby such rails are preserved from contact with the posts, substantially as specified.

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Witnesses:

W. H. LLOYD,  
JNO. MCROIN.