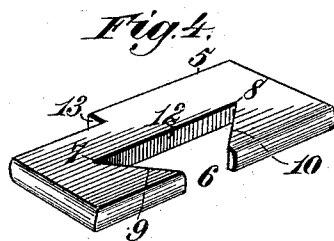
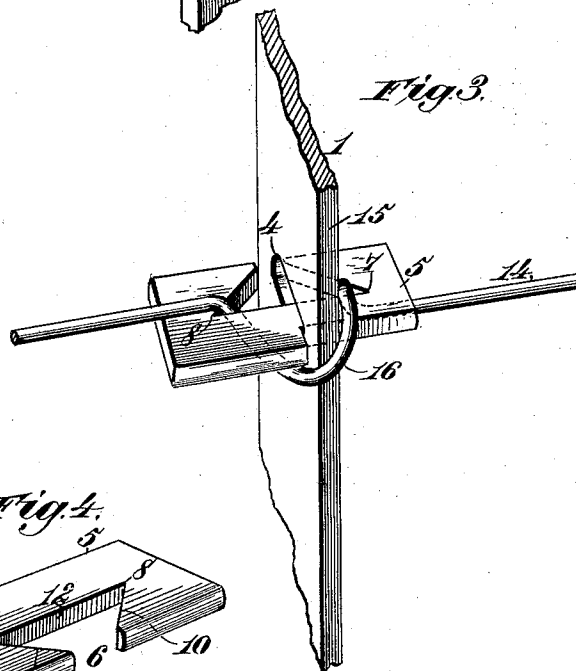
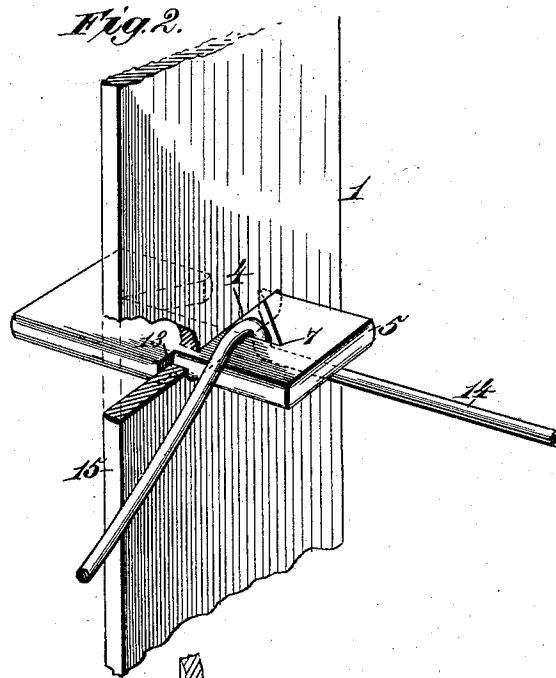
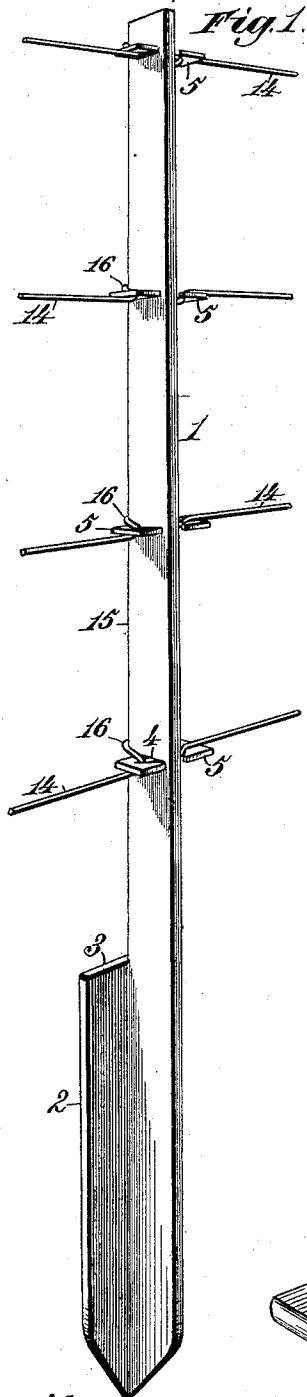


(No Model.)

B. F. RANDALL.
METALLIC FENCING.

No. 469,596.

Patented Feb. 23, 1892.



Witnesses.
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UNITED STATES PATENT OFFICE.

BENJAMIN F. RANDALL, OF FALL RIVER, MASSACHUSETTS.

METALLIC FENCING.

SPECIFICATION forming part of Letters Patent No. 469,596, dated February 23, 1892.

Application filed October 31, 1891. Serial No. 410,517. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. RANDALL, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented new and useful Improvements in Metallic Fencing, of which the following is a specification.

This invention relates to that type of fencing wherein metallic strands are secured to metallic posts through the medium of locking devices.

The invention has for its object to provide novel means whereby the fence-strands are so bent and tied at every fence-post as to effectually prevent lengthwise movement, and consequently sagging, of the fence-strands.

The invention has also for its object to provide a novel locking block or plate of such construction that it is susceptible of practicable use with the various forms of metallic fence-strands now in common use and will tightly bind against upper and lower sides of a strand at opposite sides of a post, round one edge of which the strand is bent to effectually lock the strand against lengthwise movement.

To accomplish these objects my invention involves the features of construction and the combination or arrangement of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective view of a fence-post with my invention applied thereto. Fig. 2 is a broken perspective view, on a larger scale, showing a portion of a fence-post and one of the locking blocks or plates with a portion of a fence-strand engaged with one end thereof. Fig. 3 is a broken perspective view showing the strand tied to the post according to my invention. Fig. 4 is a detail perspective view of the locking block or plate.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numeral 1 indicates a metallic fence-post, which is preferably composed of a rolled metallic plate having at the end which penetrates the ground a laterally-projecting wing 2, the head or upper end 3 of which serves as a medium for conveniently driving the post

into the ground. I do not here claim this specific construction, as it may constitute the subject-matter of a separate application for Letters Patent.

The metallic post is provided at suitable intervals with transverse orifices 4, preferably formed by punching, as shown, and these orifices are approximately rectangular to receive the rectangular locking blocks or plates 5. The form or shape of the orifices may, however, be varied to accommodate locking blocks or plates of different shape. The locking-blocks are each formed with a triangular orifice opening through one edge thereof to provide a mouth 6, through which the fence-strand can be introduced, to engage it with the approximately V-shaped extremities 7 and 8 of the triangular orifice. The edges 9 and 10 of the orifice diverge from the mouth 6 to the base 12, and consequently the opposite ends of the orifice vary in width and are substantially V-shaped, as before stated. The block or plate is provided at one edge with a laterally-projecting stop-shoulder 13, so that the block or plate is wider at one end than at the other, in such manner that when the narrow end is inserted through the orifice 4 the stop-shoulder 13 abuts against the fence-post and the fence-strand 14 can be passed through the mouth 6 into engagement with the extremity 7 of the triangular orifice in the locking-block, as in Fig. 2. In making this engagement of the fence-strand with one extremity of the locking block or plate the fence-strand is drawn taut; but the locking block or plate cannot be drawn through the orifice 4 by the tension of the fence-strand, as this is prevented by the stop-shoulder 13 bearing against the fence-post. The fence-strand is then bent round the front edge 15 of the post, as at 16, Fig. 3, and is carried rearward beneath the locking block or plate, so that it can be inserted through the mouth 6 at the opposite side of the post and engaged with the V-shaped extremity 8 of the triangular orifice of the post. The parts now assume the position represented in Fig. 3, and the fence-strand has three points of support, one against the front edge 15 of the fence-post and the other two in the extremities 7 and 8 of the triangular orifice. By this means the fence-strand is so bent and tied at every fence-

post as to effectually prevent lengthwise movement at this point, in consequence of which sagging of the fence-strand incident to the lengthwise movement thereof at the fence-
5 posts is entirely avoided.

This construction of locking block or plate is particularly useful and desirable in the erection of the fencing, in that a single person can make the connection between the
10 fence-strands and the locking blocks or plates, and this result is in a large measure due to the fact that the stop-shoulder 13 of the locking block or plate prevents the latter from being drawn through the fence-post while a
15 person is manipulating the wire strand to carry it round the front edge of the post to engage it with the locking-block at the opposite side.

The construction of the locking-block with
20 the triangular or approximately triangular orifice is important in that it provides substantially V-shaped extremities to the orifice and consequently renders the block or plate susceptible of practicable use with fence-
25 strands of various forms and of different thickness or diameter. The locking-block can be employed with ordinary fence-strands composed of single wires, or the fence-strands may be composed of two or more wires twisted
30 together, or they may be made of flat metallic ribbons twisted or not twisted, as the case may be. These different forms of fence-strands are well known, and consequently I do not deem it essential to illustrate all of
35 them in the drawings.

The locking-blocks are preferably composed of flat metallic plates which can be economically stamped or cut from sheet metal; but I do not confine myself to this particular flattened form of block or plate, for obviously
40 the shape can be varied without affecting the spirit of my invention.

The mouth 6 of the triangular orifice in the locking block or plate not only enables the
45 fence-strand to be engaged with the V-shaped extremities 7 and 8 of the orifice, but also provides the requisite space for the reception

of the fence-post when the block or plate is applied as in Fig. 3.

The invention provides novel, simple, and
50 economical means by which a single person can erect metallic fencing and the wire strands will be securely tied to each fence-post, while repairs can be conveniently and quickly effected, the fencing can be preserved
55 in perfect order at small expense, and the wire strands are held under tension by the peculiar bending thereof round the edges of the posts.

Having thus described my invention, what
60 I claim is—

1. The combination, with a fence-post having a transverse opening, of a locking block or plate arranged in the opening and having
65 an orifice terminating at one edge of the block or plate in a strand-receiving mouth, and the extremities of such orifice varying in width, and a fence-strand having a bend engaged with one edge of the fence-post and interlocked with the extremities of the orifice
70 at opposite sides of the post, substantially as described.

2. The combination, with a fence-post having a transverse opening, of a strand-locking
75 block or plate having at one edge a laterally-projecting stop-shoulder and provided with a triangular orifice, and a strand-receiving mouth opening thereinto, substantially as described.

3. The combination, with a metallic fence-
80 post having a transverse rectangular opening, of a locking block or plate composed of a flattened rectangular plate formed at one edge with a laterally-projecting stop-shoulder and provided with a triangular orifice, and a
85 strand-receiving mouth opening thereinto, substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

BENJAMIN F. RANDALL.

Witnesses:

L. B. MCFARLAND,
R. J. MORGAN.