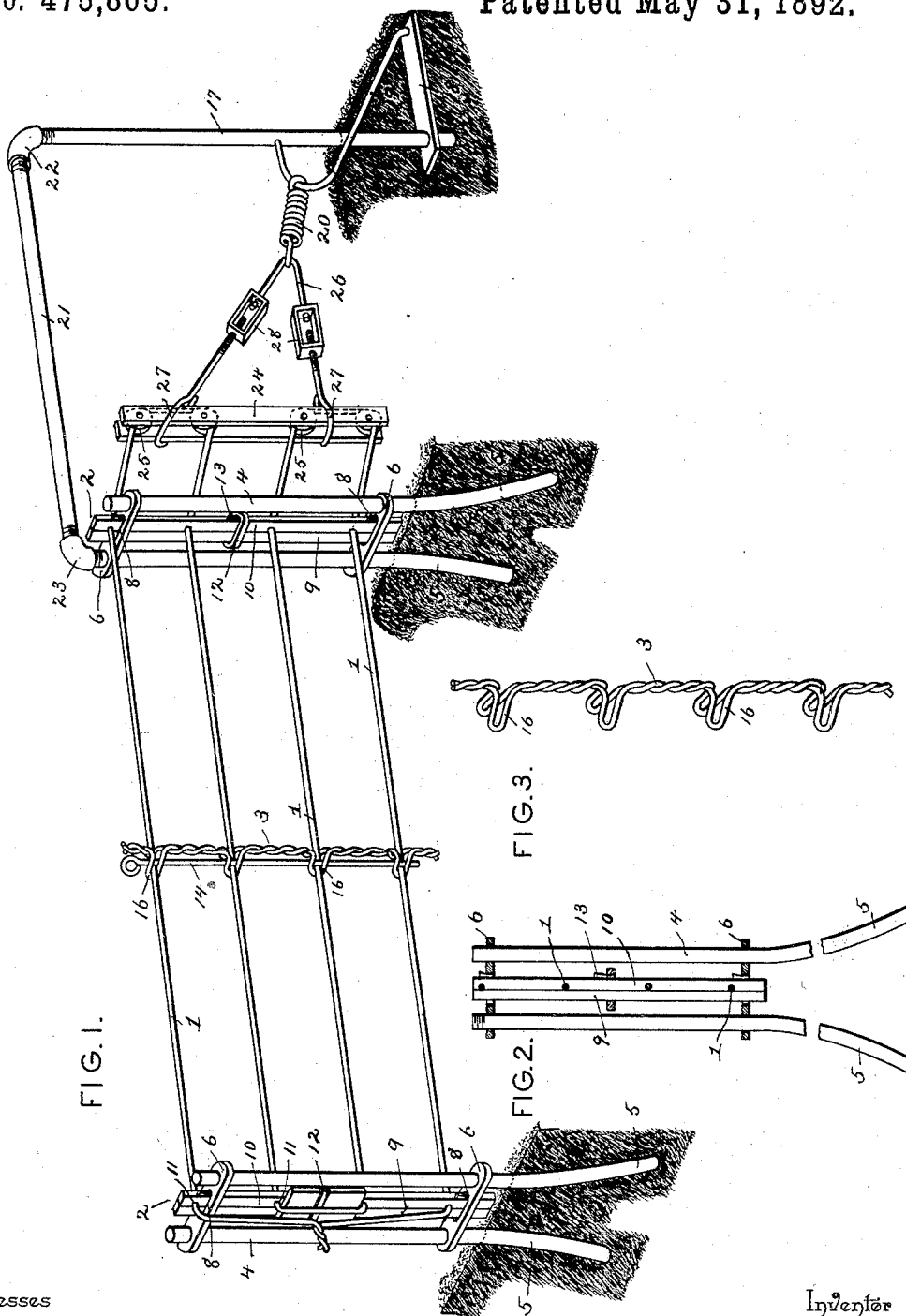


(No Model.)

W. B. HUDSON.
FENCE.

No. 475,865.

Patented May 31, 1892.



Witnesses

Harry G. Jones.
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By his Attorneys,

Inventor

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UNITED STATES PATENT OFFICE.

WILLIAM B. HUDSON, OF ORWELL, OHIO.

FENCE.

SPECIFICATION forming part of Letters Patent No. 475,865, dated May 31, 1892.

Application filed February 4, 1892. Serial No. 420,330. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. HUDSON, a citizen of the United States, residing at Orwell, in the county of Ashtabula and State of Ohio, have invented a new and useful Fence, of which the following is a specification.

The invention relates to improvements in fences.

The object of the present invention is to simplify and improve the construction of wire fences, to enable the same to readily stand any lateral strain incident to its use, and to provide means whereby the horizontal wires may be maintained at the desired tension.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a portion of a fence constructed in accordance with this invention. Fig. 2 is a vertical sectional view. Fig. 3 is a detail perspective view of one of the fence-stays, the locking-rod being removed.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates horizontal fence-wires, which are supported at intervals by fence-posts 2 and at intermediate points by fence-stays 3, which hold the horizontal wires 1 parallel and strengthen the fence.

Each fence-post is composed of vertical rods 4, having diverging lower ends 5, which are driven into the ground and connected above the ground by horizontal tie-plates 6, which are provided at their ends with openings to receive the rods and which have intermediate their ends slots 8, adapted for the reception of vertical bars 9 and 10. The bars 9 and 10 are arranged in pairs and are adapted to hold and support the horizontal fence-wires, and the bar 10 is provided at its inner edge with a series of recesses 11, in which the horizontal wires are secured by the other bar 9. The lower ends of the bars 9 and 10 are supported upon the ground and each pair is connected intermediate its ends by a horizontal link 12, in which the bars are clamped by a key 13.

The fence is supported at intervals between the fence-posts, which are arranged a consider-

able distance apart, by fence-stays 3, which are secured to the wires by a locking-rod 14. The stay 3 is constructed of wire. The wire is double and twisted, and each portion of the wire is provided at intervals with horizontal bends 16, which diverge and are adapted for the reception of the horizontal wires. The bends 16 are arranged in pairs and the wires are secured in them by the locking-rod 14, which is arranged vertically between the bends of each pair and is interposed between the horizontal wires and the mouths of the bends.

The end or corner post 17 is tubular. It is supported in its post-hole by a suitable packing or stone or other material and its lower end is secured to a horizontal anchor-piece 18, to which is attached the lower end of an inclined brace 19, which has its upper end hooked and secured to the post 17 and which serves as means for connecting a spring 20 of a tension device with the corner-post 17. The upper end of the corner-post is connected with the adjacent fence-post by a horizontal tubular brace 21, which has its ends threaded and connected by couplings 22 and 23 with the corner post and with one of the rods of the adjacent fence-post.

The tension device consists of vertical side bars 24, between which are arranged pulleys 25 and to which are secured the horizontal fence-wires, the spring 20, and the adjustable connection between the spring and the side bars. The adjustable connection consists of a V-shaped piece 26, in the crotch of which is hooked one end of the spring, the hooks 27, engaging the side bars, and turnbuckles 28, swiveled to the ends of the V-shaped piece and engaging the shanks of the hooks, which are threaded. The horizontal wires pass around the pulleys 25, which are grooved to receive them, and by means of the turnbuckles the wires may be tightened to any desired tension, the spring preventing the tension being great enough to break the wires, and also allowing the wires to contract and expand without breaking.

It will thus be seen that a strong, durable, and comparatively inexpensive fence is provided and that the wires may be maintained at the desired tension.

What I claim is—

1. In a fence, the combination of horizontal

wires and fence-posts, each composed of vertical parallel rods, vertical bars arranged between the rods, one of the bars being provided with a series of notches to receive the horizontal wires and the other bar securing the wires in the notches, and the tie-plates connecting the rods and the bars, substantially as described.

2. In a fence, the combination of horizontal wires and fence-posts, each composed of vertical parallel rods, vertical bars arranged between the rods, one of the bars being provided with a series of notches to receive the horizontal wires, and the tie-plates arranged horizontally and provided with openings to receive the rods and having slots in which are arranged the vertical bars, substantially as described.

3. In a fence, the combination of horizontal wires and fence-posts, each composed of vertically disposed rods having their lower ends diverging, horizontal tie-plates connecting the rods and provided with slots, vertical bars arranged in the slots, one of the bars being provided with notches to receive the horizontal wires, and a link and key for securing the vertical bars together, substantially as described.

4. The combination, with horizontal fence-wires, of a stay constructed of two wires twisted together, each wire being provided with horizontal bends arranged at intervals, the bends of the wires being arranged in pairs and diverging from each other and receiving the horizontal wires in them, and a vertical locking-rod arranged in the crotches formed by the diverging bends and interposed between the horizontal wires and the twisted or body portion of the stay, substantially as described.

5. In a fence, the combination of the horizontal wires, fence-posts supporting the wires, the vertical side bars having pulleys journaled between them, over which the horizontal wires pass, a tension-spring connected with one of the posts, a V-shaped piece connected to the spring, hooks engaging the vertical side bars, and turnbuckles connecting the V-shaped piece and the hooks, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM B. HUDSON.

Witnesses:

E. P. GOODRICH,
F. W. PARKER.