

No. 824,120.

PATENTED JUNE 26, 1906.

J. A. HOYT.  
WIRE STRETCHER.  
APPLICATION FILED FEB. 28, 1906.

2 SHEETS—SHEET 1.

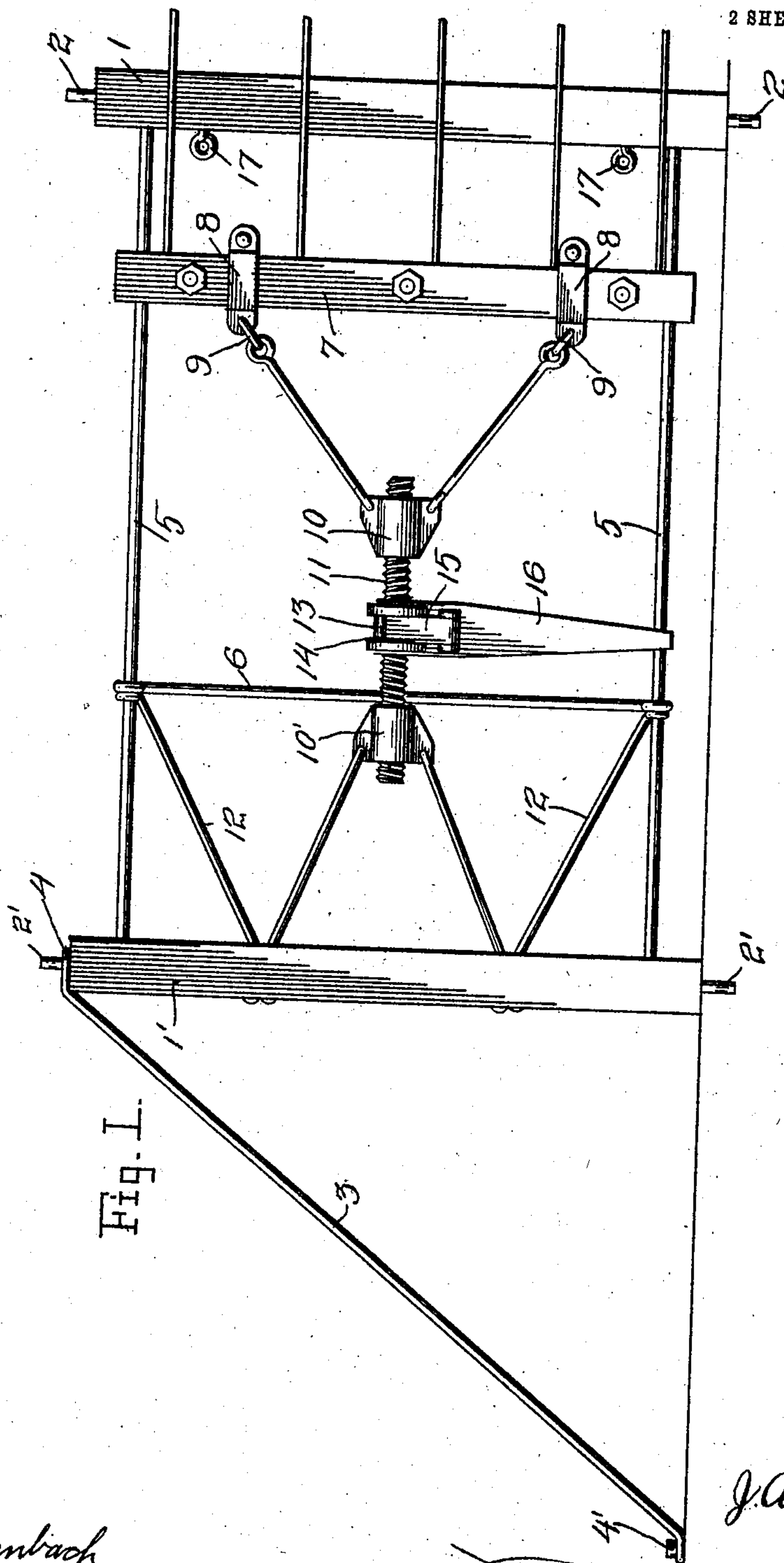


Fig. I.

Witnesses  
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J. C. Jones

Inventor  
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By

*Handwritten signature of attorney*

Attorneys.

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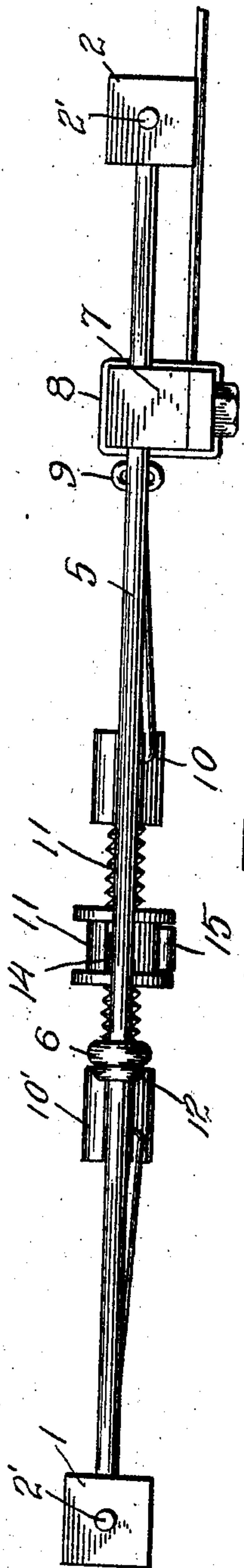


Fig. 2.

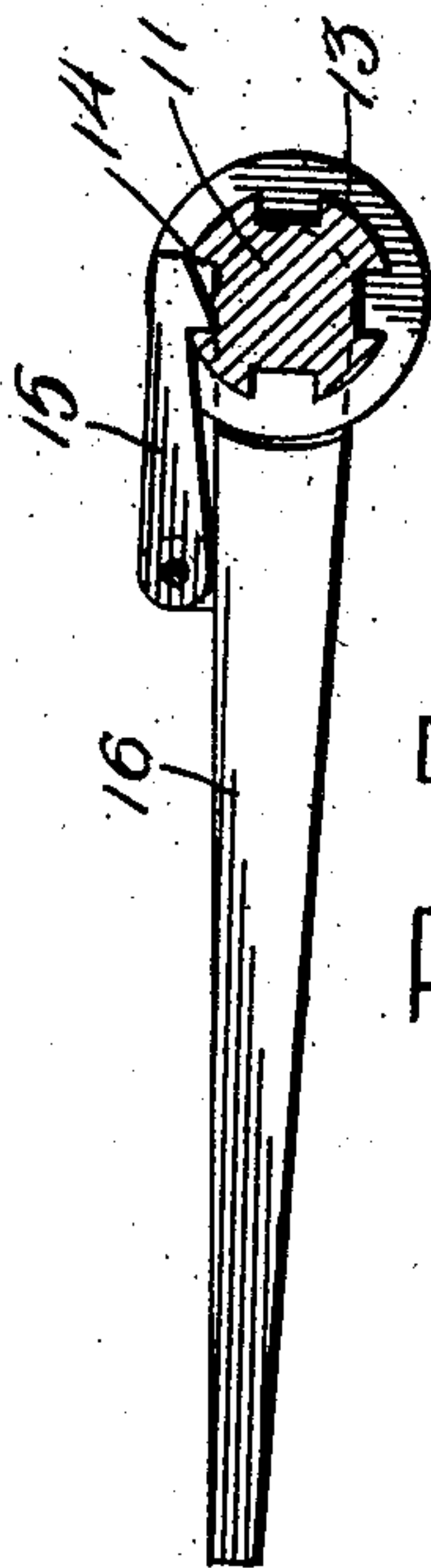


Fig. 3.

Witnesses  
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# UNITED STATES PATENT OFFICE.

JESSE A. HOYT, OF HASTINGS, IOWA.

## WIRE-STRETCHER.

No. 824,120.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed February 28, 1906. Serial No. 303,436.

*To all whom it may concern:*

Be it known that I, JESSE A. HOYT, a citizen of the United States, residing at Hastings, in the county of Mills, State of Iowa, have invented certain new and useful Improvements in Wire-Stretchers; 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.

This invention has relation to means for stretching wires, as is done in the work of constructing wire fences.

It is the object of the invention to simplify the construction of the contrivances aforesaid and at the same time enhance their efficiency.

The invention embodies a pair of uprights provided with stay pins or pikes, bars connecting the uprights, and a stretching-frame movable upon said bars and connected with the fence-wires to tighten and hold the same to permit of their attachment by staples to the permanent fence-posts when the stretching device is run back to be again used as before.

The annexed drawings, with the figures of reference marked thereon, form a part of this specification and are to be referred to as such.

Of the drawings, Figure 1 is a side elevation of the device in position to operate upon the end of the fence-wires. Fig. 2 is a top plan view of Fig. 1. Fig. 3 is a detail sectional view showing the arrangement of the tightening-lever and its nut.

Like numerals of reference designate corresponding parts or features, as the case may be, wherever they occur.

In the drawings, 1 1' designate two posts or timbers forming the ends of the frame, which are provided on each end with pikes 2 2', adapted to be driven into the ground to maintain the frame in vertical position.

3 designates a stay-rod provided with an eye or loop 4 on one end designed to be placed over the pike in the upper end of the timber 1' opposite to that approached by the fence-wires, and the other end of said rod is led in the direction in which the fence is being built and secured in the ground by a metallic stake 4' to stay the end timbers 1 1' against movement toward the ends of the fence-wires when the latter are being tightened.

5 designates brace-rods connected at their ends at the top and bottom of the end timbers to maintain the latter in place, said rods

and end timbers constituting a practically rectangular frame. The rods 5 are further connected by a transverse brace-rod 6.

7 designates a clamping-bar made in two parts held together by headed bolts and nuts (as many in number as may be required) arranged vertically in the frame, with the rods 5 passing through its upper and lower ends, so that it can slide to and fro on said rods, as will be understood. The ends of the barbed or other wires forming the fence are passed between the two parts of said bar and are clamped in place therebetween by the above-mentioned bolts and nuts.

Two clips 8 engage or surround the clamping-bar and are provided on their inner sides with rings 9 or the like, from which extend in a converging direction two rods that are hooked at their other ends into openings formed in the wings of a nut 10, turning on one end of a rod 11, provided with right and left hand threads and arranged horizontally in the frame, the said rod having a like nut 10' turning on its other end, with which converging rods similar to those before mentioned are connected, the opposite ends of the latter rods being secured to the end post 1'. Inclined brace-rods 12 connect the end post 1' with the upper and lower rods 5 to brace and stiffen the frame.

A nut 13 is fixedly secured to the center of the screw-rod 11 and is provided on its periphery with notches 14, with which engages the free end of a dog 15, pivoted on an operating-lever 16, fulcrumed on the screw-rod 11, so that when the screw-rod is turned in one direction the nuts 10 and 10' will be moved toward each other, moving the clamping-bar 7 inward, thus drawing on the wires and tightening the same, so that they can be "stapled" to the permanent end posts set in the ground to receive the said staples and wires, thus forming a "set-up" fence. A movement of the operating-lever in the opposite direction will cause said nuts 10 10' to move apart, thus permitting the clamp-bars to be released from the fastened wires and take up a new section, which may then be tightened and fastened, as above explained.

The end timber 1 may be further supported by securing to the eye 17 thereon one end of a brace, (not shown,) the other end of which is set into the ground.

Should it be desired to use the frame on the other side of the line of posts, it will be turned bottom side upward, when the pikes at the



top of the end timbers will be driven in the ground and the stay-rod 3 changed accordingly. The dog 15, pivoted on the lever 16, will engage the notches in the periphery of the nut 13, fixed on the screw-rod 11, and operate the said rod 11 to bring the nuts 10 and 10' together when the frame is reversed in the same manner as when the frame was in its first-described position, the lever being depressed in its original position and raised when the frame is reversed.

It will thus be seen that the improved contrivance can be worked equally well on either side of the line of posts and that in its operation it can be made to tighten the fence or longitudinal fence-wires as tight or tense as may be wanted.

What is claimed is—

1. A device for stretching fence-wires, consisting of a frame having vertical end posts, pikes in each end of the said posts to adapt said posts to be secured in the ground in vertical position, and to render them reversible, rods connecting the upper and lower ends of said posts, a vertical clamp-bar adapted to slide horizontally on said rods, means for operating the clamp-bar to engage the ends of

the fence-wires, and means for actuating the clamp-bar to stretch the fence-wires which it holds.

2. A device for stretching fence-wires, consisting of a frame having vertical end posts, pikes in each end of said posts to adapt them to be secured in the ground in vertical position and to render them reversible, rods connecting the upper and lower ends of said posts, a vertical two-part clamp-bar adapted to slide horizontally on said rods, means for operating said clamp-bar to engage the ends of the fence-wires therebetween, a rod connected with said clamp-bar and provided with right and left hand screw-threaded ends, nuts engaging the threaded ends of said rod for travel thereon, a nut fixed on said rod, and a lever fulcrumed on said rod and having a dog pivoted thereon to engage said fixed nut to turn the same and move the first-mentioned nuts and clamp-bar.

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

JESSE A. HOYT.

Witnesses:

H. A. DUNBAR,  
J. M. ROBERTS.