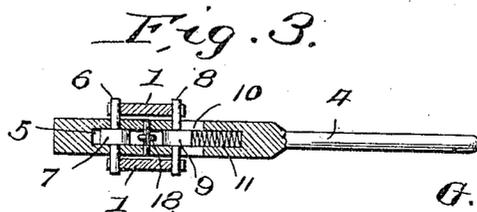
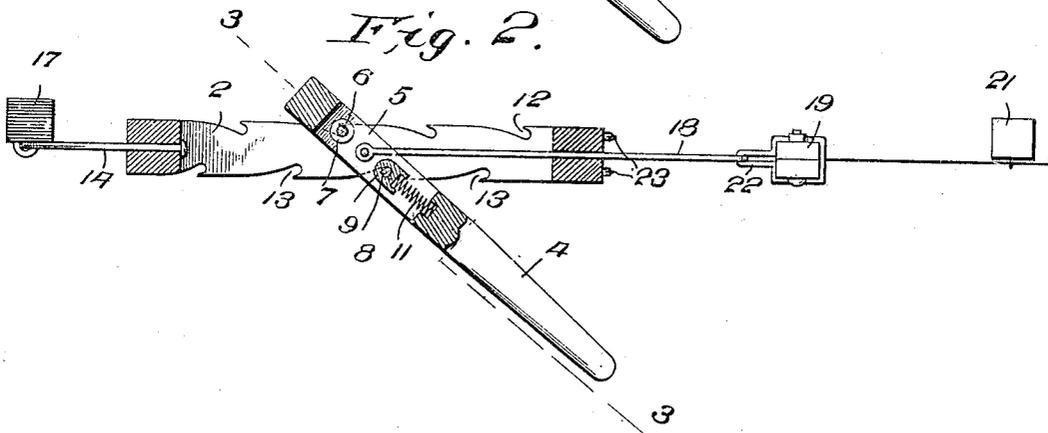
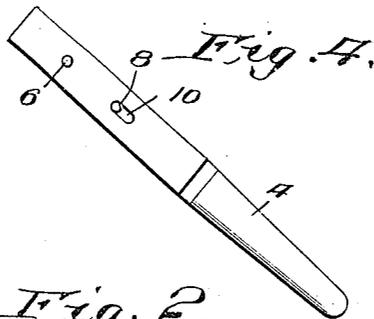
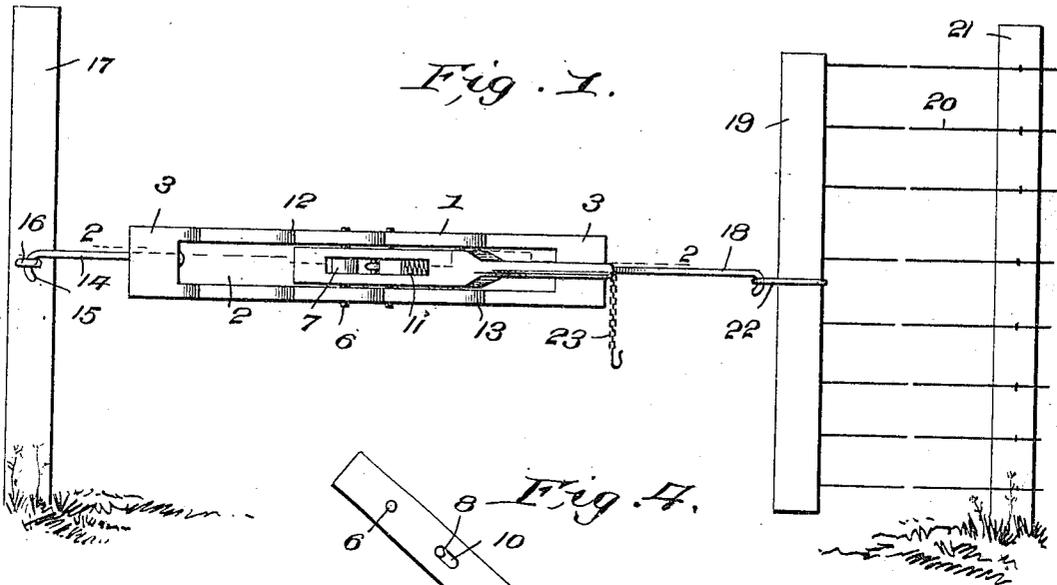


No. 831,741.

PATENTED SEPT. 25, 1906.

G. E. PHILLIPS.  
WIRE STRETCHER.

APPLICATION FILED MAY 22, 1906.



Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

GILES E. PHILLIPS, OF SANGERVILLE, VIRGINIA.

## WIRE-STRETCHER.

No. 831,741.

Specification of Letters Patent.

Patented Sept. 25, 1906.

Application filed May 22, 1906. Serial No. 318,193.

*To all whom it may concern:*

Be it known that I, GILES E. PHILLIPS, a citizen of the United States, residing at Sangerville, in the county of Augusta and State of Virginia, 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.

My invention relates to new and useful improvements in wire-stretchers, and more particularly to that class adapted to be used in stretching fence-wires.

The object of my invention is to so construct the parts of my device whereby a continuous pull may be exerted upon a wire at the same time the operating mechanism is being moved into position to gain a new leverage.

A further object is to so construct the frame of my improved stretcher that the operating-lever may be stepped from end to end of said frame and securely held in its adjusted position while the wires are being secured in place upon the post.

Other objects and advantages will be hereinafter made clearly apparent in the specification and pointed out in the claims.

In the accompanying drawings I have shown the preferred form of my invention.

In said drawings, Figure 1 is a side elevation of my improved stretcher, showing the same operatively applied to a fence. Fig. 2 is a longitudinal sectional view as seen from line 2 2, Fig. 1. Fig. 3 is a sectional view as seen from line 3 3, Fig. 2; and Fig. 4 is a detail plan view of the operating-lever.

Referring to the figures by numerals of reference, 1 indicates the frame of my improved stretcher, which has an elongated slot 2 therein and heads 3 at each end thereof. Adapted to take through the slot 2 in the frame 1 is a lever 4, which is provided with a slot 5 near one end thereof.

Extending through the lever 4 at right angles to the slot 5 is a stationary shaft 6, which is surrounded by a collar 7, the collar being disposed in the slot 5. Also disposed through the lever 4 at right angles to said slot 5 is a movable shaft 8, said shaft being engaged by a collar 9, disposed in the slot 5, the opposite ends of the shaft 8 being disposed through ways 10 in the lever 4, thereby permitting lateral movement of said shaft. A control-

ling-spring 11 is interposed between the collar 9 and one end wall of the slot 5, so that the shaft 8 will be normally held at one end of the ways 10. The stationary shaft 6 is adapted to engage notches 12, formed in one side of the frame 1, while the shaft 8 is adapted to engage notches 13, formed in the opposite side of the frame 1, the notches upon one side of the frame being at a phase difference of substantially one-half the distance between the notches on the opposite side.

A bolt 14 is extended through one of the heads 3 and has its outer end bent to form a hook 15, which is designed to engage a staple or the like 16, and by which means the stretcher is secured to any suitable support, as to a post 17 or the like. Extending through the opposite head 3 is a rod 18, the inner end of said rod being secured in the slot 5 midway between the shafts 6 and 8, while the opposite end of the rod is secured in any preferred manner to a clamping member 19. Secured between the sections of the clamping member 19 are strands of fence-wires 20, said wires being disposed along the line of fence and adapted to be secured to the posts 21 in the usual way.

The outer end of the rod 18 is curved to engage a clevis 22, said clevis being disposed around the clamping member and preferably midway its length, so that an equal pull will be given each end of the clamping member.

In operating my improved stretcher the wires 20 are disposed in position along the posts and properly spaced apart, and after a section of the fence is so arranged the clamping member 19 is secured to the free ends of the wires, after which the rod 18 is placed in connection with the central portion of the clamping member and the bolt 14 at the opposite end of the frame secured to any stationary object, such as a post or any other convenient article near the line of fence, the lever 4 having previously been disposed at that end of the slot nearest the clamping member with the shafts 6 and 8 disposed, respectively, in the notches 12 and 13 nearest that end of the frame. When the lever is thus disposed, the handle end thereof is first directed to the right and the shaft 6 disposed in the next succeeding notch 12, the shaft 8 yielding sufficiently to allow the shaft 6 to be readily seated in said notch, and it will be understood that by moving the lever 4 from side to side the shafts 6 and 8 will be successively stepped from notch to notch and the

wires 20 drawn taut, after which they may be secured to the post 21 by staples or the like.

After the lever has been used to stretch the wire and it is desired to return the lever to its initial position the forwardmost shaft is released from its respective notch by moving the lever 4 endwise, thereby moving the shaft 8 laterally in the ways 10 and disposing the shaft 6 out of engagement with its respective notch, whereupon the lever may be swung at right angles to the frame, in which position the shaft will be free of the notches and the lever in position to be freely moved laterally in the slot 2. When the lever has been stepped from end to end of the frame 1, a chain 23, secured to that end of the frame nearest the clamping member 19, is placed into connection with the clevis 22, after which the rod 18 is disengaged from the clevis and the lever 4 returned to its initial position, and if it is desired to stretch the wire further a clamping member is secured to the wires in the rear of the member now in use and the rod 18 secured thereto, when the chain is released and the stepping process again repeated.

What I claim is—

1. A stretcher of the class described comprising a stretcher-frame, heads at each end of said frame, said frame having an elongated slot therethrough and a plurality of notches at each side thereof, a slotted lever disposed through said elongated slot, a stationary shaft secured to said lever and disposed at one side of the frame, a movable shaft through said lever and at the opposite side of said

frame, a controlling-spring for said movable shaft, a rod pivotally secured to said lever between said shafts, means at the free end of said rod to secure the same to wires, and additional means at the opposite end of said frame to secure the same to a stationary object whereby, when the lever is operated, the shafts will successively engage the notches in the frame and stretch the wires.

2. A stretcher of the class described comprising a frame having a horizontally-disposed slot therein, heads at each end of said frame, a lever disposed in said slot and having a slot therein, a stationary shaft and movable shaft disposed through said lever and slot one at each edge of said horizontal slot adapted to engage notches in the edges of the frame, collars disposed in said lever-slot and around said shafts, a controlling-spring disposed into engagement with the movable shaft, said shaft extending through ways in the lever, a rod disposed through one of said heads and secured at one end to said lever, means at the opposite end of said rod to secure the same to a plurality of wires, and additional means at the opposite end of said frame to secure said frame to an immovable object.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GILES E. PHILLIPS.

Witnesses:

E. G. CRIST,  
A. Y. McCUTCHAN.