C. H. LOGAN.

WIRE STRETCHER.

APPLICATION FILED OCT. 25, 1916.

1,273,889.

Patented July 30, 1918.

2 SHEETS—SHEET 1.

FIG. 1.

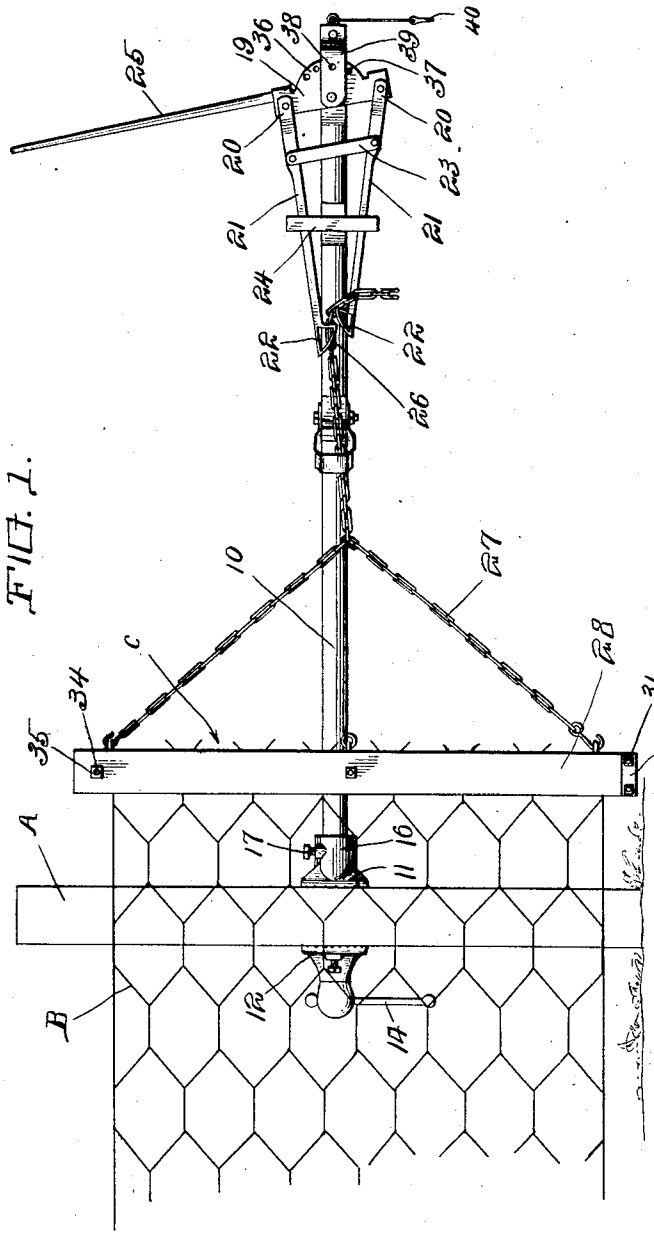
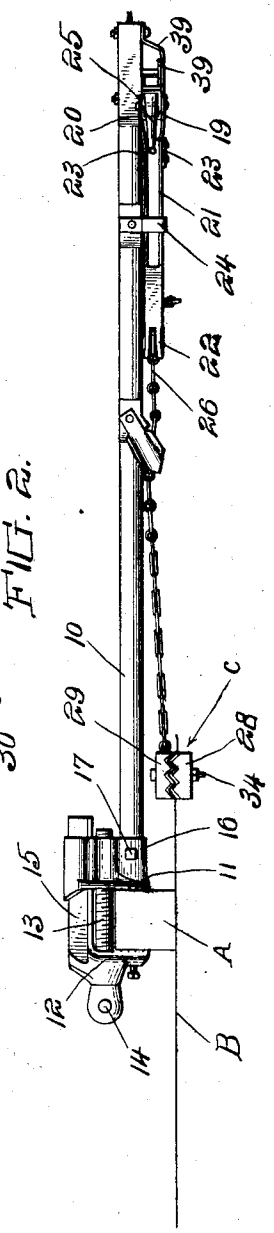


FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 3

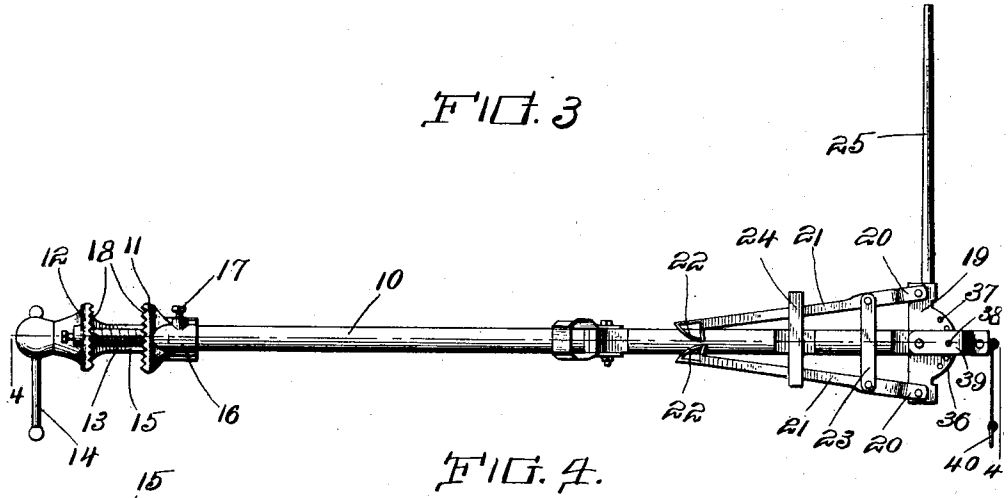


FIG. 4.

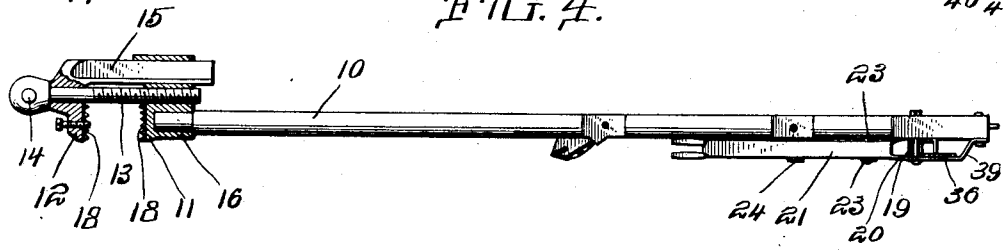


FIG. 5.

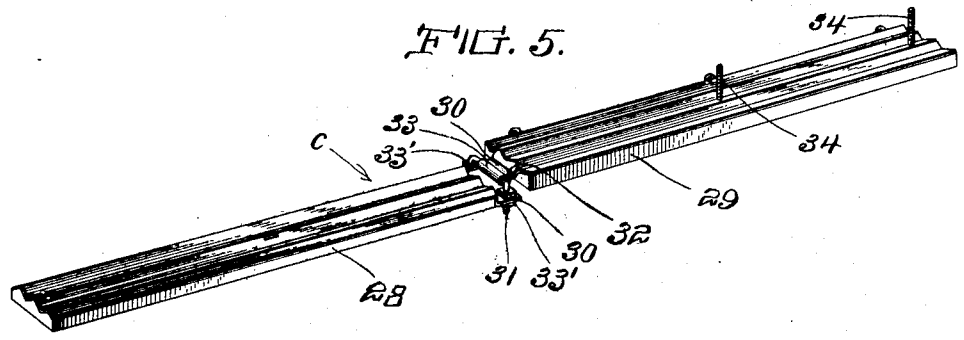
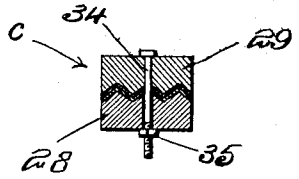


FIG. 6.



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UNITED STATES PATENT OFFICE.

CHARLES H. LOGAN, OF SEDALIA, MISSOURI, ASSIGNOR OF ONE-HALF TO EUGENE H. BENNETT, OF SEDALIA, MISSOURI.

WIRE-STRETCHER.

1,273,889. Specification of Letters Patent. **Patented July 30, 1918.**

Application filed October 25, 1916. Serial No. 127,668.

To all whom it may concern:

Be it known that I, CHARLES H. LOGAN, a citizen of the United States, residing at Sedalia, in the county of Pettis and State of Missouri, have invented new and useful Improvements in Wire-Stretchers, of which the following is a specification.

This invention comprehends the provision of a wire stretcher by means of which wire fences can be easily and quickly put up, or repaired with the least effort.

The invention aims to provide a device of the above mentioned character which can be quickly applied to the fence post or removed therefrom as the occasion may require, the device being simple in construction yet very efficient for the purpose intended.

The nature and advantages of the invention will be better understood from the following description when read in connection with the accompanying drawings, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawings forming part of this specification like numerals of reference indicate similar parts in the several views and wherein:—

Figure 1 is a side elevation of the device showing the manner of using the same.

Fig. 2 is a top plan view thereof showing the device in position for use.

Fig. 3 is an elevation of the device removed from the post.

Fig. 4 is a sectional view on line 4—4 of Fig. 3.

Fig. 5 is a view of the clamp showing the parts separated.

Fig. 6 is a sectional view through the clamp with the parts associated.

The device forming the subject matter of my invention embodies a pipe indicated at 10 and adapted to be clamped upon the fence post A to project horizontally therefrom. A vise is preferably employed for this purpose, and includes a fixed jaw 11 secured to one extremity of the pipe, and a movable jaw 12 disposed in confronting relation to the fixed jaw. A screw bolt 13 forming part of the vise is associated with the movable jaw 12 and works through a threaded opening in the fixed jaw 11, a manipulating element 14 carried by the head of the bolt being provided, so that upon rotation of the bolt in either one or the other direction will cause the movable jaw 12 to be adjusted toward or away from the fixed jaw 11. The movable jaw includes a shank 15 which is arranged to slide through an opening in the fixed jaw 11 at one side of the bolt 13, the opening being irregular to conform to the angular cross sectional configuration of the shank 15, with a view of preventing turning of the movable jaw 12. The fixed jaw 11 is also provided with a socket 16 disposed at the side of the bolt 13 opposite the shank 15, the socket receiving the adjacent end of the pipe 10, while a set screw 17 is employed to bind against the pipe whereby the jaw 11 and its associated parts is held in a fixed position upon the pipe. Both of the respective jaws are provided with a serrated or toothed surface 18 so as to obtain an effective grip upon the post A.

Pivotally mounted upon the pipe 10 adjacent its opposite extremity is a cross piece 19 to the opposite extremities of which is pivotally secured the corresponding bifurcated terminals 20 of the arms 21. These arms converge forwardly and terminate in hook-like portions 22 which are normally disposed in close proximity to each other. These arms are pivotally connected together adjacent the cross piece by means of links 23, while the arms operate for the purpose to be hereinafter more fully described, in a guide 24. The cross piece 19 preferably defines a socket for the reception of one end of a lever 25, which lever is detachably associated with the cross piece and capable of being used at either end of the latter. The lever is adapted to rock the cross piece 19 on its pivot for the purpose of alternately moving the arms 21 forwardly and backwardly, with a view of permitting the hook-like extremities thereof to alternately engage in the links 26 of a chain to exert a pull upon the wire or fabric constituting the fence B. One end of the chain is connected to a flexible element 27, while the opposite extremities of the latter are secured to a clamp indicated generally at C.

The clamp C preferably comprises a pair of elongated members 28 and 29 respectively, which members may be constructed from any suitable material and of any particular dimensions without departing from the spirit of the invention. These members are preferably hingedly connected together and each provided with an extension 30. A pair

of threaded bolts 31 are extended through openings in the extension of the member 28 and have their headed extremities secured to a rod 32 which is journaled in a bearing 33 formed on the extension of the member 29. A pair of nuts 33′ for each of the bolts 31 are provided, these nuts being arranged at the opposite sides of the extension of the member 28 to hold the respective members operatively associated. Manifestly by reason of this construction the members 28 and 29 are hingedly connected together at one end, whereby these members can be readily separated to receive therebetween the wire fabric B constituting the fence. The members have their adjacent faces or sides corrugated for the purpose of effectively clamping therebetween the wire fence fabrib B in the manner clearly illustrated in the drawings. The member 29 is provided with a plurality of spaced threaded bolts 34 that project through suitable openings in the other member of the clamp, and when the nuts 35 are tightened upon these bolts the respective members are effectively held in clamping relation. It might here be stated that the respective members of the clamp can be spaced from each other different distances to accommodate the particular size of the material to be clamped therebetween, this adjustment being effected by adjusting the nuts 33′ as will be readily understood.

In practice the wire fence fabric B is clamped between the members 28 and 29, subsequent to the positioning of the pipe 10 upon the fence post A. The chain 26 is then engaged by one of the arms 21, and by oscillating the lever 25, the arms are alternately moved forward and backward, each time the hook-like extremity 22 of one of the arms is moved forward, and engages one of the links 26 of the chain, so that when this particular arm is moved rearwardly a pull is exerted upon the chain in a direction to stretch the wire fabric B. The cross piece 19 carries an arcuate-shaped plate 36 which is provided with a plurality of openings 37 adapted to be successively brought into registration with an opening 38 of a bracket 39. These alined openings are adapted to receive a pin 40 to lock the cross piece 19 against further movement when the wire fabric has been drawn sufficiently taut, thus permitting use of both hands of the operator in stapling or otherwise securing the fabric B to the post A. It will be noted that the pipe 10 can be quickly and easily attached to or removed from the fence post A as the occasion may require, and that the adjustment of the jaw 12 permits the device to be clamped upon posts of different dimensions.

Attention is now directed to the fact that by loosening the set screw 17 the pipe 10 can be turned in its socket with a view of arranging the stretcher in many different positions for use, and by tightening the set screw 17 these parts may be held fixed relatively. By reason of this adjustment it is manifest that the stretcher may be attached to either side of the post, and that the stretcher may be placed in a position for stretching the wire in either direction along either side of the proposed line of fence. Again the lever 25 may thus be placed in a horizontal position with the free end extending at right angles to the pipe 10 on either the right or left side thereof, or the lever 25 may be arranged vertically with respect to the pipe 10, so as to be conveniently operated from a most advantageous position.

It is believed that from the foregoing description the nature and advantages of the invention will be readily apparent without requiring a more extended explanation and therefore the same has been omitted. However I desire to have it understood that I do not limit myself to the exact construction and arrangement of parts herein shown as the same is merely illustrative of the preferred embodiment of the invention and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What is claimed is:—

In a device of the character described, a post-engaging means including a fixed jaw having an opening therethrough, a movable jaw including a shank, said shank being slidable through said opening of the fixed jaw, means for adjusting the movable jaw toward and away from the fixed jaw, said fixed jaw having a socket, a pipe having a reduced extremity rotatably fitted within the socket, a set screw carried by said fixed jaw for holding said pipe fixed relatively thereto in a given position, and a wire stretching means supported upon the opposite extremity of said pipe.

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

CHARLES H. LOGAN.

Witnesses:

F. F. Combs,

Geo. D. Lindsay.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."