

(No Model.)

O. S. & G. S. PIKE.
FENCE WIRE TENSION DEVICE.

No. 504,051.

Patented Aug. 29, 1893.

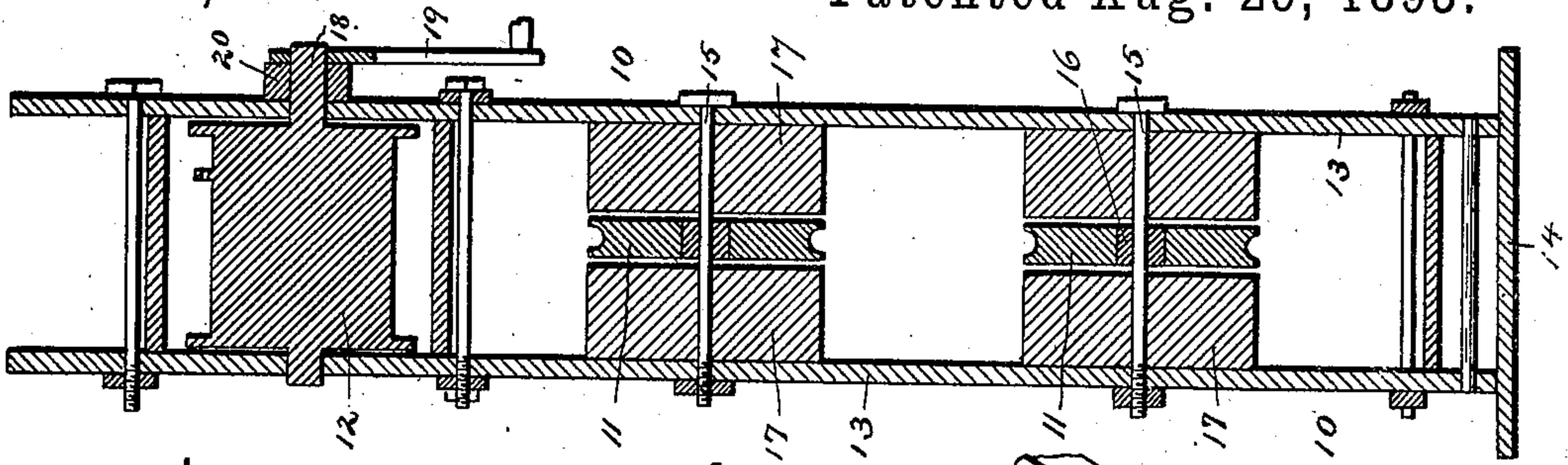


FIG. 2.

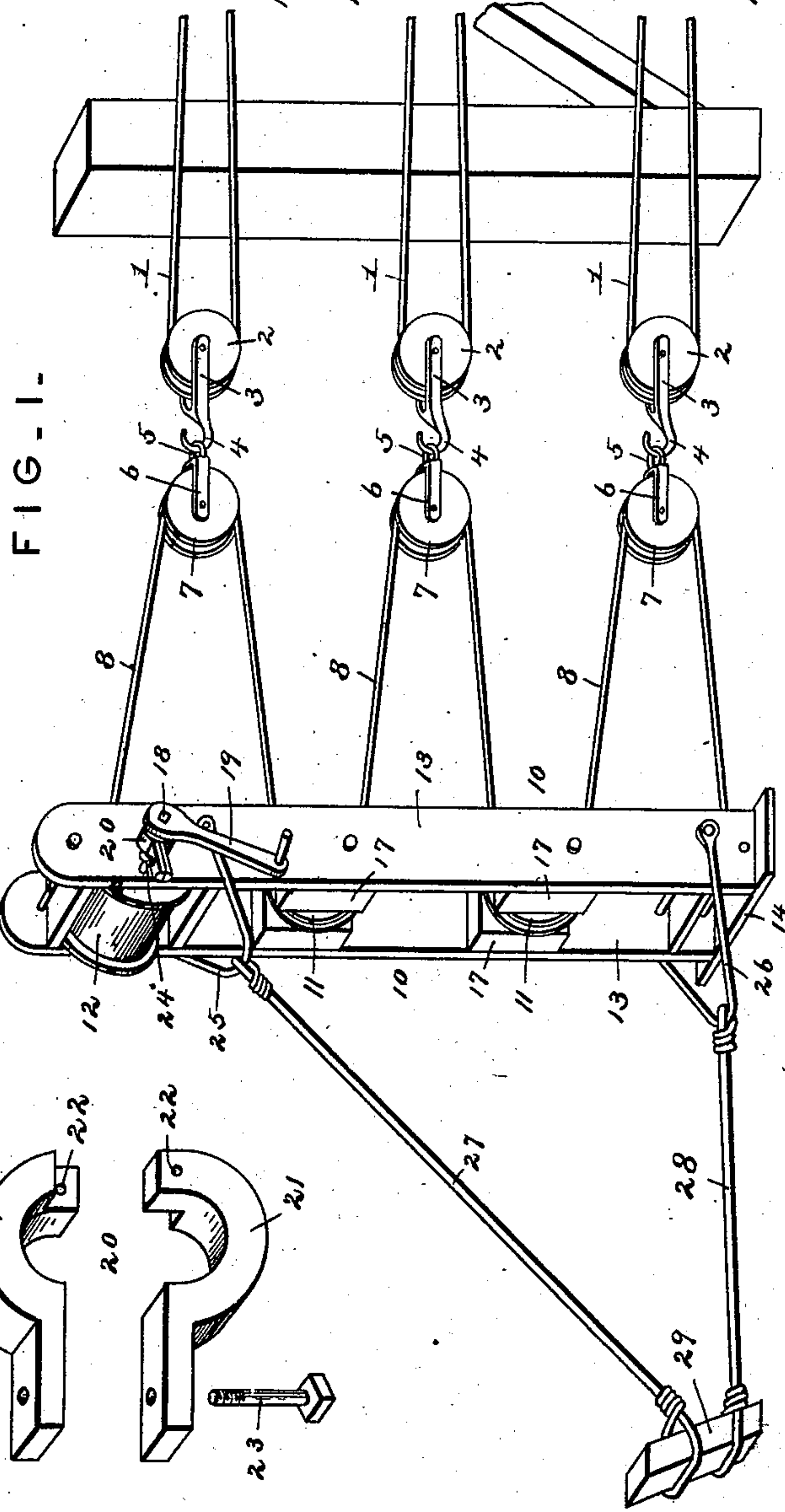
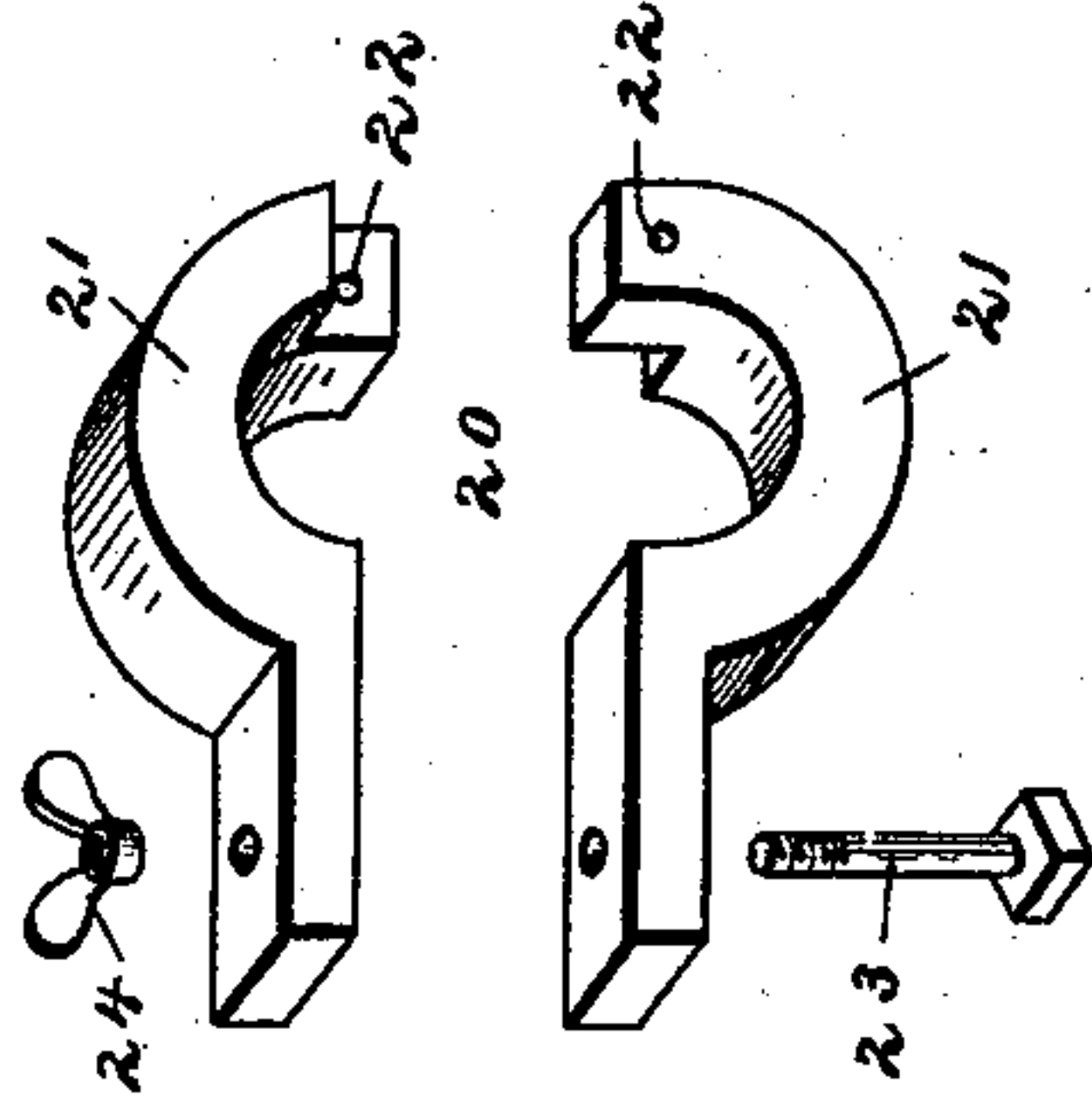


FIG. 1.

FIG. 3.



Witnesses

Harry L. Ames.
J. W. Riley.

Inventors

By their Attorneys, Grant S. Pike,
Orville S. Pike.

Cashnow & Co.

UNITED STATES PATENT OFFICE.

ORVILLE S. PIKE AND GRANT S. PIKE, OF GREENSBURG, PENNSYLVANIA.

FENCE-WIRE TENSION DEVICE.

SPECIFICATION forming part of Letters Patent No. 504,051, dated August 29, 1893.

Application filed March 14, 1893. Serial No. 465,909. (No model.)

To all whom it may concern:

Be it known that we, ORVILLE S. PIKE and GRANT S. PIKE, citizens of the United States, residing at Greensburg, in the county of Westmoreland and State of Pennsylvania, have invented a new and useful Wire-Stretcher, of which the following is a specification.

The invention relates to improvements in wire stretchers.

10 The object of the present invention is to provide a simple and comparatively inexpensive apparatus, adapted for stretching simultaneously the wires of a fence and capable of drawing them to a uniform tension.

15 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 claim hereto appended.

20 In the drawings—Figure 1 is a perspective view of a wire stretcher constructed in accordance with this invention and shown connected with the wires of a fence. Fig. 2 is a vertical transverse sectional view. Fig. 3 is an enlarged detail perspective view of the brake clamp.

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

30 1 designates fence wires arranged in strands and adapted to have pickets woven into them for forming a fence; and the wires of each pair are connected and arranged on one of a series of fence wire pulleys 2. The fence wire pulleys are each arranged in a block 3 which is provided with a hook 4 engaging an eye 5 of a block 6 of a pulley 7, the latter being one of a series of cable pulleys. The cable pulleys receive a continuous wire cable 40 8 which has one end secured at the bottom of a frame 10, and which is passed back and forth over the cable pulleys 7 and over frame pulleys 11, and which has its upper end attached to and wound around a windlass 12, journaled in the top of the frame 10. By winding up the cable on the windlass it will be seen that the fence wires will be stretched to a uniform tension.

50 The frame 10 consists of sides 13 and a base piece 14; the sides are connected by bolts 15 forming spindles for the frame pulleys 11, which are arranged on sleeves or bushings 16 of the bolts 15 and are located between blocks 17.

The windlass consists of a metal drum and 55 journals, which are preferably formed integral with the drum; and the journal 18 is squared at its end and has attached to it a crank handle 19. The windlass is held against retrograde rotation to secure the fence wires at the desired tension by a clamping brake 20, 60 which consists of sections 21 pivoted at 22 and arranged above and below the journal 18. Each section consists of a semi-circular clamping portion and is pivoted at that end, and 65 a straight portion formed integral with the clamping portion. The straight portion of each of the sections is provided with a perforation and the sections are connected by a bolt 23 and a thumb nut 24, by means of 70 which the windlass may be securely held after the cable has been wound thereon. The brake is attached to the frame by the pivot which hinges its sections.

The frame 10 is provided at the top and 75 bottom with yokes 25 and 26 to which are secured cable stays 27 and 28 having their outer ends secured to a stake 29.

In the accompanying drawings the wire stretcher is shown connected to three sets of 80 fence wires, but it will readily be seen that any number of fence wires may be stretched by increasing the pulleys of the series; and we desire it to be understood that changes in the form, proportion and the minor details of 85 construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What we claim is—

A wire stretcher comprising a series of 90 fence wire pulleys provided with hooks and adapted to receive a series of fence wires, a series of cable pulleys having eyes connected to said hooks, a frame, a series of frame pulleys journaled in the frame, a windlass mounted on the frame, and a cable having one end 95 attached to the frame and being laced over the frame pulleys and cable pulleys and having its other end wound on said windlass, substantially as described. 100

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ORVILLE S. PIKE.
GRANT S. PIKE.

Witnesses:

W. C. LOOR,
JNO. E. VAN DYKE.