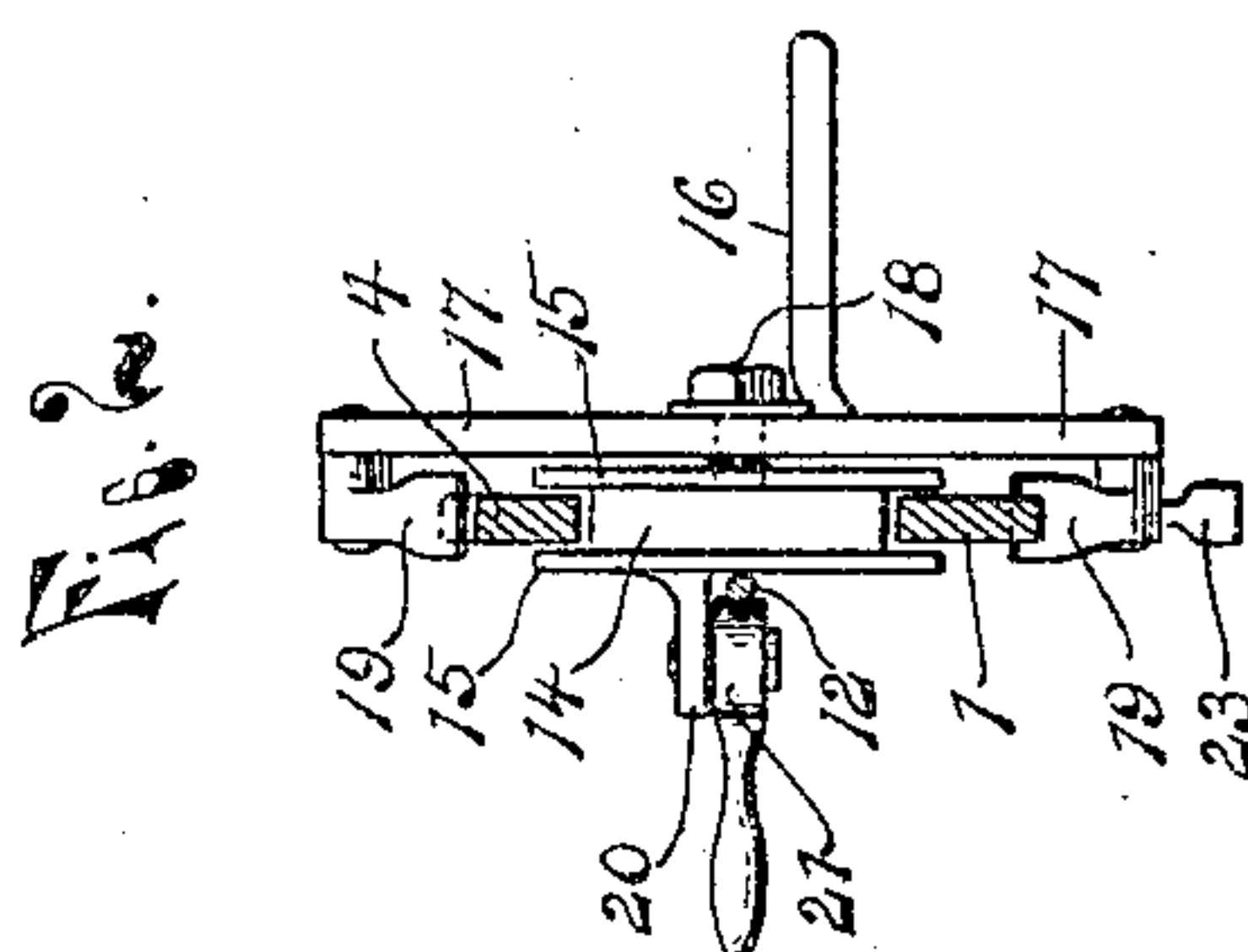
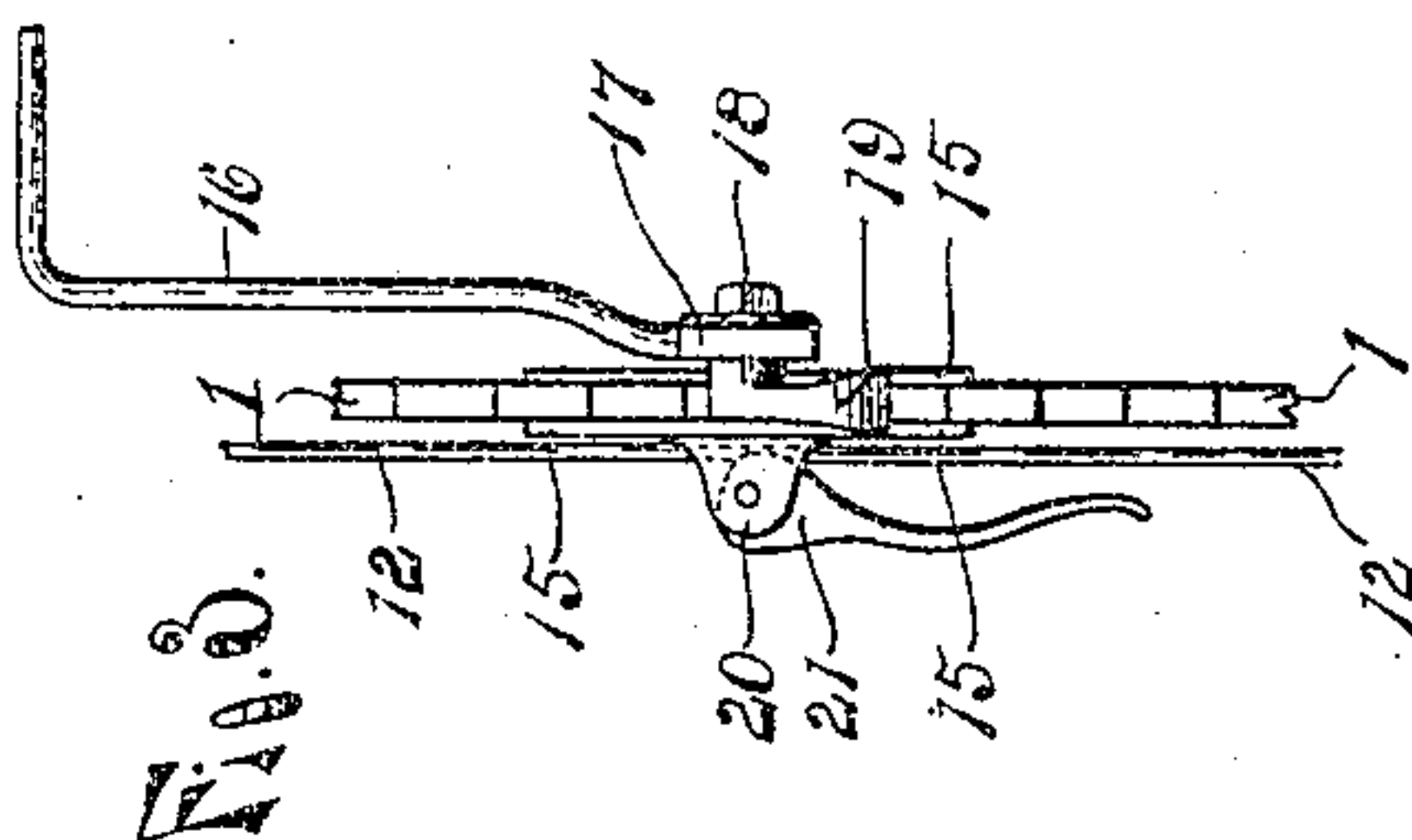
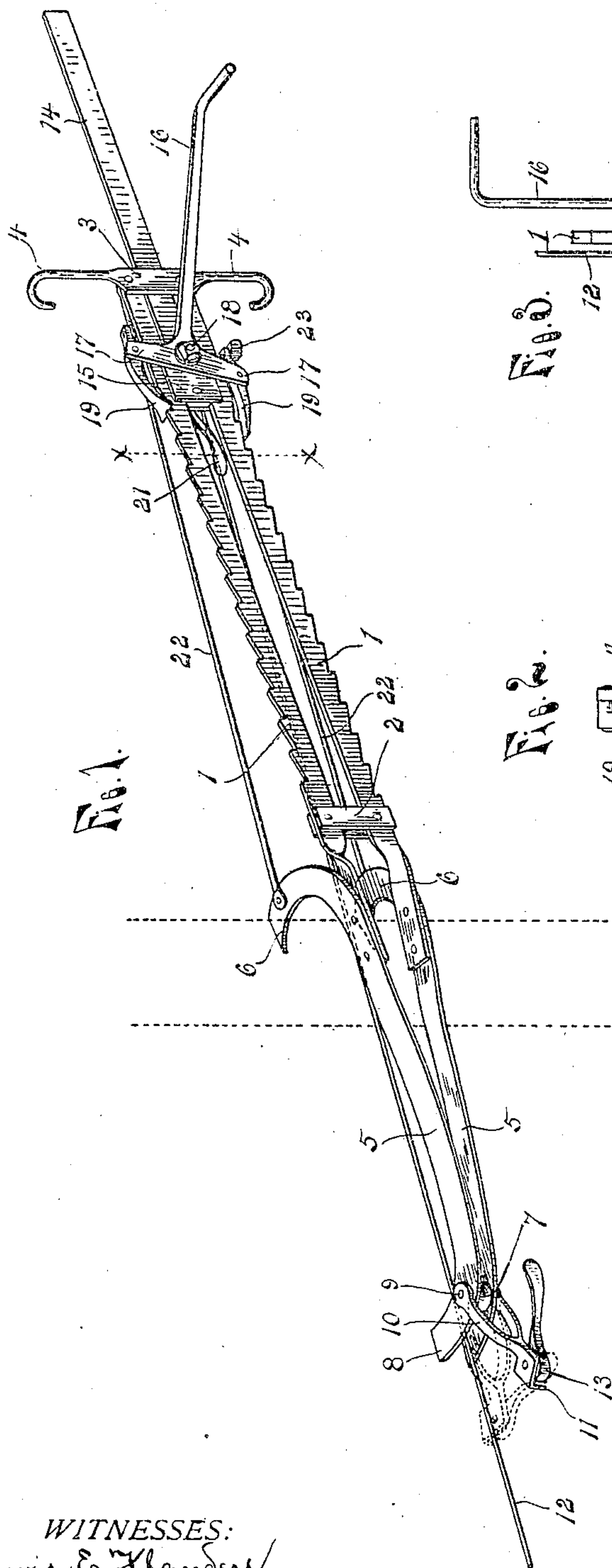


No. 795,264.

PATENTED JULY 25, 1905.

J. E. BAECHLER.  
WIRE STRETCHER.  
APPLICATION FILED APR. 10, 1905.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

JOHN E. BAECHLER, OF SARNIA, CANADA.

## WIRE-STRETCHER.

No. 795,264.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed April 10, 1905. Serial No. 254,875.

*To all whom it may concern:*

Be it known that I, JOHN E. BAECHLER, a subject of the King of Great Britain, residing at Sarnia, in the county of Lambton and Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Wire-Stretchers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in wire-stretchers; and its object is to provide a simple, cheap, compact, and easily handled and operated device for the purpose which is so constructed that the wire is guided thereby and held against the side of a post in a position to be secured thereto and is provided with means whereby when the movable clamp has been extended to the limit of its movement the wire is held until said clamp has been moved to take a new hold on the wire.

A further object of the invention is to provide a device which is so arranged that it may be used very close to the ground without interfering with its operation and which is provided with certain other new and useful features, all as hereinafter more fully described, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a device embodying the invention; Fig. 2, a transverse section of the same on the line *x x* of Fig. 1, and Fig. 3 is an edge view of the movable clamp and adjacent parts.

1 1 are parallelly-extending ratchet-bars having teeth along their outer edges and secured together near their forward ends by cross-bars 2, riveted thereto, and at their rear ends are secured together and held in parallelism by a bar 3, formed at its ends with handles 4, extending laterally from the ratchet-bars, by means of which handles the device is held in operative position.

Riveted to the forward ends of the ratchet-bars are two bars 5, which are bent to form at one end two laterally-extending hooks 6, adapted to be engaged with a post of the fence, and these bars extending forwardly some distance converge and are secured together with a roll 7 between their forward ends, being bent laterally to form guides 8 for the wire at one side of said roll. Pivotally attached to the forward ends of said bars 5 by the same pivot-pin 9 upon which the roll is journaled is a yoke 10, provided with a flange 11 at one side, adapted to be engaged with the wire 12, which is to be stretched, and with a cam-shaped

clamping member 13, pivoted thereto and opposing said flange to clamp the wire between.

The ratchet-bars form guides between which the guide-bar 14 slides longitudinally, and to the sides of said guide-bar at its forward end are secured the plates 15, forming flanges to engage the sides of the ratchet-bars and also to form a head thereon to which the operating-handle 16, having a T-head or transverse portion 17, is pivotally secured by a bolt 18, extending through said plates and guide-bar. Pivotally attached to the ends of the transverse portion of the operating-bar are the pawls 19, adapted to engage the teeth of the ratchet-bars and when the handle 16 is turned on its pivot-bolt 18 operate to force the guide-bar 14 longitudinally toward the rear end of the ratchet-bars. On the plate 15 at the side of the guide-bar opposite that at which the operating-handle is attached is an ear 20, extending outward from the face of the plate, and to this ear is pivotally secured a cam-shaped clamping member 21, adapted to clamp the end of the fence-wire 12 between it and the plate to secure the end of the wire to the guide-bar.

To make the device strong and rigid, brace-rods 22 are secured at one end to the rear ends of the ratchet-bars and at their opposite ends to the ends of the laterally-extending hooks 6.

The device is placed in operative position, as shown in Fig. 1, by first engaging and clamping the wire with the clamp 13, said wire extending rearwardly therefrom between the guides 8 and along the ratchet-bars. The hooks 6 are then engaged with the post by grasping the handles 4 and pulling on the wire, thus lifting the device to engage the hooks with the post and at the same time putting a strain upon the wire sufficient to hold the hooks engaged with the post. The guide-bar is next moved forward to engage the pawls with the teeth on the forward ends of the ratchet-bars, and the end of the wire is secured to said guide-bar by the clamp 21. After securing the wire by the clamp 21 the clamp 13 is released and swung out of engagement with the wire, and then by moving the operating-handle up and down the guide-bar will be moved rearwardly or away from the post, thus drawing the wire tight. If when the movable clamp carried by the guide-bar has reached the rearward end of its movement the wire is not drawn tight enough, the clamp 13 may again be engaged with the wire to hold the same and the clamp 21 then re-



leased and again moved forward to take a new hold on the wire. This operation may be repeated as many times as necessary until the wire is drawn sufficiently tight. This construction greatly facilitates the putting of the device in an operative position, as much of the slack is taken out of the wire in engaging the hooks with the post, and when so engaged the wire being held between the guides is in a position to be readily secured to the movable clamp. The operating-handle, extending longitudinally of the ratchet-bars, does not prevent the stretcher from being used close to the ground in stretching the lower wires of the fence. This stretcher may be used on either side of the post and either side up. The only change to be made when it is reversed is to detach the weight 23, which is provided to hold the pawl at the lower side of the ratchet-bars in engagement therewith and attach it to the other pawl.

Having thus fully described my invention, what I claim is—

1. In a wire-stretcher, the combination with a ratchet-bar, a clamp to engage and hold the wire and movable along said bar, and means for engaging the bar and moving the clamp; of bars formed with hooks at one end secured to the forward end of the ratchet-bar and formed with laterally-bent forward ends to form a guide, a roll pivotally secured between said forward ends, a yoke pivotally attached to said forward ends, clamping means carried by said yoke, and handles secured to the rear end of the ratchet-bar.

2. In a wire-stretcher, the combination of parallel ratchet-bars secured together at a distance apart and provided with teeth along their outer edges, a guide-bar movable longitudinally between said ratchet-bars, a guide-head on the forward end of said guide-bar, means on said head for clamping a wire thereto, an operating-handle pivotally attached to the opposite side of said head and provided with a transverse portion forming a T, pawls pivotally attached to the ends of the transverse portion to engage the teeth on the ratchet-bars, and a detachable weight on the pawl at the lower side of the ratchet-bars.

3. In a wire-stretcher, the combination of parallel ratchet-bars having teeth along their outer edges and secured together near each end with a space between the bars, a guide-bar movable longitudinally in the space between the ratchet-bars, plates secured to the forward end of said guide-bar to form a guide-head thereon, a laterally-extending ear on one of said plates, a cam-shaped clamping member pivotally attached to said ear, an operating-handle having a transverse portion pivotally secured to said head at the side opposite that to which the clamp is secured, gravity-pawls pivotally attached to the ends of the transverse portion of the handle, a detachable weight attached to the pawl at the lower side of the ratchet-bars, handles on the rear ends of the ratchet-bars extending laterally therefrom, bars secured to the forward ends of the ratchet-bars and bent laterally at their rear ends to form hooks and at their forward ends to form a guide, a roll pivotally secured between the forward ends of said bars, a yoke pivotally attached to said ends and provided with a flange, and a cam-shaped clamping member pivoted to said yoke opposite said flange.

4. In a wire-stretcher, the combination of parallel ratchet-bars secured together at a distance apart and provided with teeth along their outer edges, a guide-bar movable longitudinally between said ratchet-bars, a guide-head on the forward end of said guide-bar, means on one side of said head for clamping a wire thereto, an operating-handle pivotally attached to the opposite side of said head and provided with a transverse portion, pawls pivotally attached to the ends of the transverse portion to engage the teeth on the ratchet-bars, bars formed with hooks attached to one end of said ratchet-bars to engage a post and clamping means pivotally attached to the forward ends of said hook-bars.

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

JOHN E. BAECHLER.

Witnesses:

OTTO F. BARTHEL,  
THOS. S. LONGSTAFF.