

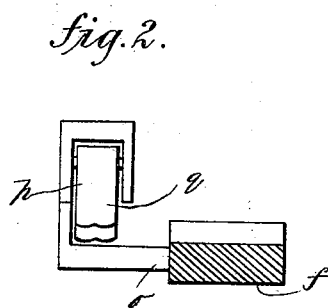
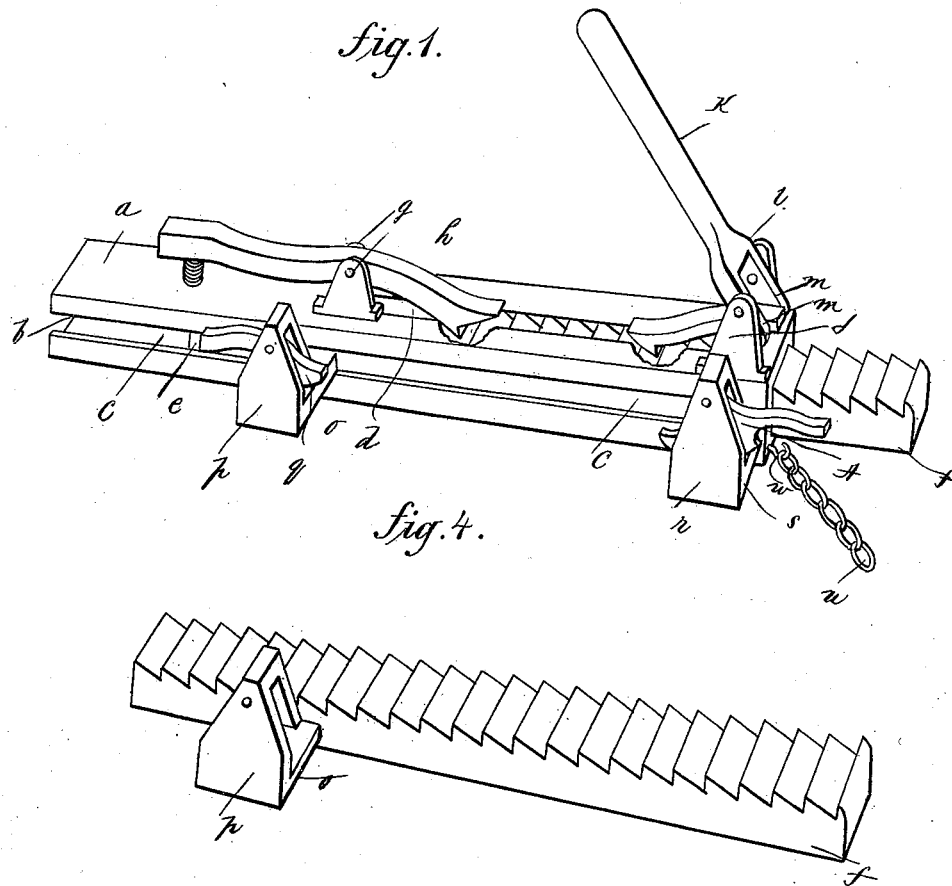
No. 645,619.

Patented Mar. 20, 1900.

J. H. FELLOWS.
WIRE STRETCHER.

(Application filed May 3, 1899.)

(No Model.)



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN H. FELLOWS, OF EL DORADO, KANSAS, ASSIGNOR OF ONE-HALF TO
JOHN W. MORRISON, OF SAME PLACE.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 645,619, dated March 20, 1900.

Application filed May 3, 1899. Serial No. 715,404. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. FELLOWS, a citizen of the United States, residing at El Dorado, in the county of Butler and State of Kansas, have invented certain new and useful Improvements in Wire-Stretchers, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

10 This invention relates to wire-stretchers, and has more particular reference to a device of this class adapted for use in the construction of telephone-lines, telegraph-lines, and wire fences.

15 The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which like letters of reference denote like parts in the several views, and in which—

20 Figure 1 is a perspective view of a wire-stretcher constructed according to my invention; and Figs. 2, 3, and 4 are details of the construction shown in Fig. 1, Figs. 2 and 3 being partly in section.

25 Referring more particularly to the drawings, *a* is an oblong block, which is chambered longitudinally, as at *b*, and slotted at one side, as at *c*, and also slotted in the top for a predetermined distance, as at *d*, and the slots *c* and *d* communicate with the chamber *b*. A stop *e* is formed upon the block *a* and spans the slot *c*. Slidably mounted in the chamber *b* is a ratchet-bar *f*, and suitably journaled in supports *g*, secured to the block *a* at one end of the slot *d*, is a spring-operated locking-pawl *h*, the head of which operates in connection with the teeth of the ratchet-bar *f*.

30 At one end of the block *a*, and respectively at either side thereof, are formed a pair of supports *j*, and pivoted between said supports *j* is a lever-handle *k*, provided with a yoke-shaped inner end portion *l*, and pivoted between the ends of the arms *m* of the yoke-shaped end portion *l* is an operating-pawl *n*, which operates through the slot *d* and in connection with the ratchet-bar *f*. The pivoting of the lever-handle *k* between the supports *j* is so arranged that the ends of the arms *m* of the yoke-shaped portion *l* thereof are free to oscillate, and it is evident that the oscillation of the lever-handle *k* will cause the pawl *n* to intermittently move the ratchet-bar *f* in a constant direction.

Secured to and near one end of the ratchet-bar *f* by means of a plate *o*, which passes through the slot *c*, is an angular grip-support *p*, and pivoted therein and adapted to operate in connection with the plate *o* is a cam-shaped grip *q*.

55 Secured to the side of the block *a*, adjacent the supports *j*, is a supplemental grip-support *r*, secured thereto by a plate *s*, and pivoted therein and adapted to operate in connection with the plate *s* is a cam-shaped grip *t*. The grips *q* and *t* operate upon the same side of the block *a*. A chain *u* is detachably connected by means of a hook with that end of the block *a* adjacent which the supports *j* are located.

60 The operation of my device will be evident from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

70 The block *a* is connected with a telegraph or telephone pole or fence-post or similar support by means of the chain *u*, which is passed about the same and secured at each end to the hook *w*. An end of the wire to be stretched is then firmly secured between the clamp *q* and the plate *o*, and the lever-handle *k* is oscillated, causing the pawl *n* to successively engage the teeth of the ratchet-bar *f* and move the same longitudinally of the block *a*, moving the plate *o* and clamp *q* toward the clamp *t*. The pawl *h* will prevent any reverse movement of the bar *f*. When this movement is completed, the end of the wire is passed between the clamp *t* and the plate *s* and firmly bound between the same, and the ratchet-bar *f* is moved backward in the chamber *b* and a fresh hold is taken upon the wire by the clamp *q* and plate *o*, and the oscillation of the handle-lever *k* is resumed until the wire is drawn as taut as desired.

80 It is evident that two stretchers may be used, between which the wire may be drawn taut by attaching one end thereof to each stretcher.

95 It is evident that many changes may be made in the construction and arrangement of

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the parts of my device, and I claim all such as come within the scope of my invention.

Having fully described my invention, I claim as new and desire to secure by Letters
5 Patent—

The herein-described wire-stretcher, comprising a chambered block, a ratchet-bar movably mounted therein, said block being provided with a longitudinal slot in the top
10 thereof and also in the side thereof, a pawl pivoted to the top thereof and operating in connection with said ratchet-bar and through said slot in the top of said block, said ratchet-bar being provided with a clamping device
15 connected therewith by a plate which passes through said slot in the side of said block, an operating-pawl pivoted to the top of said block

at one end thereof and provided with a pivoted lever-handle, and adapted to operate in connection with said ratchet-bar through the
20 slot in the top of said block, a clamping device secured to the side of said block at the end thereof adjacent said operating-pawl, and devices for securing said block to a post or other support, substantially as shown and
25 described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 29th day of April, 1899.

JOHN H. FELLOWS.

Witnesses:

E. G. LOUTHAN,
L. J. EGAN.