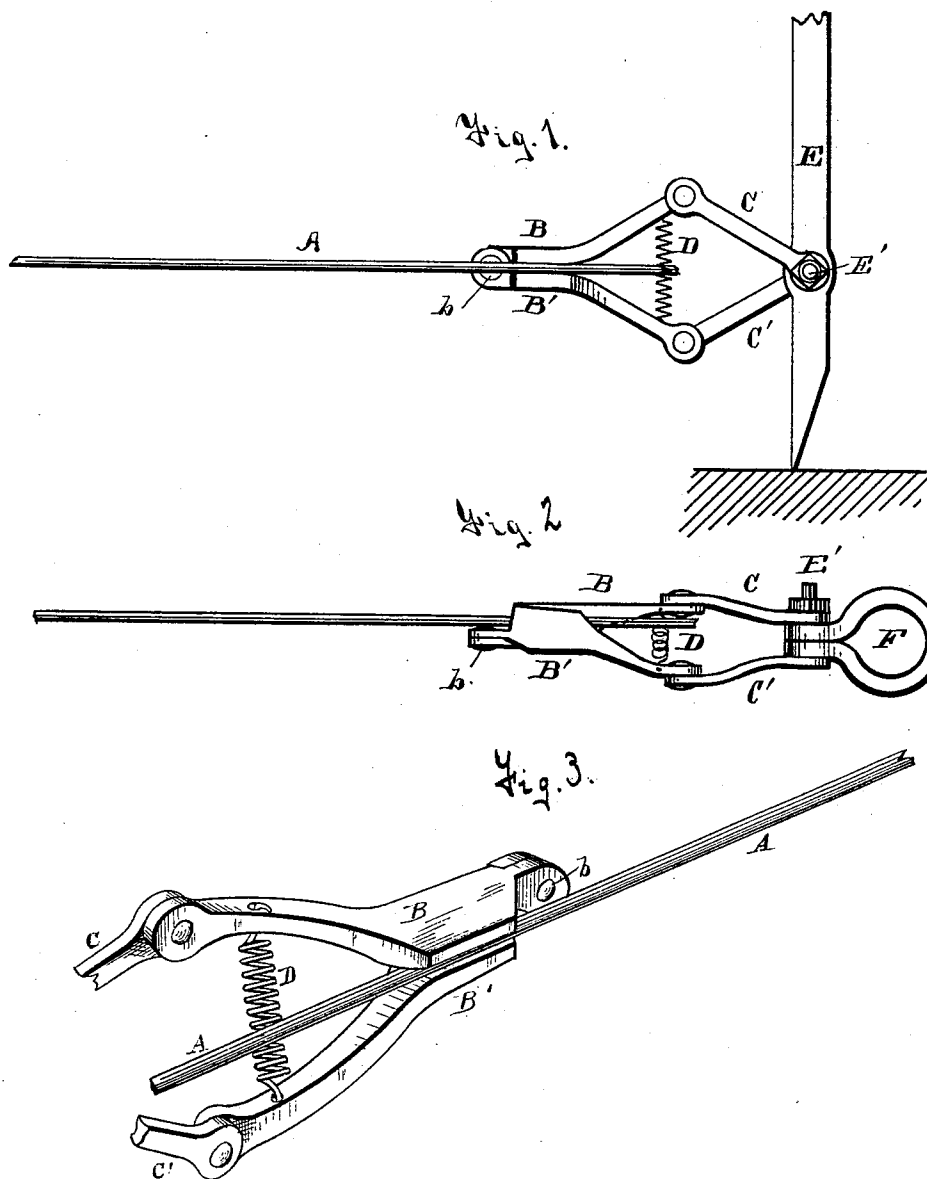


(No Model.)

W. R. HORSLEY.
Device for Stretching Wire.

No. 233,619.

Patented Oct. 26, 1880.



WITNESSES

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WILLIAM R. HORSLEY, OF COLUMBIA, ASSIGNOR TO JOHN B. CLOUGH, OF
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DEVICE FOR STRETCHING WIRE.

SPECIFICATION forming part of Letters Patent No. 233,619, dated October 26, 1880.

Application filed June 7, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. HORSLEY, of Columbia, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Devices for Stretching Wire; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to a device for stretching wire; and it consists in parts and combination of parts that will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a view, in elevation, of a device constructed according to my invention and adapted to be operated by means of a lever. Fig. 2 is a top view of the same adapted to be operated by means of a tackle, wherein a link is substituted for the lever, as shown in Fig. 1. Fig. 3 is a perspective view of a portion of the device, representing the jaws clamping a wire.

In the said drawings, A represents a wire in the process of being stretched; B B', the jaws of my device. These jaws are pivoted at b. The other ends of the jaws are pivotally attached to connecting-rods C C'. These connecting-rods C C', in turn, are pivotally united at E'.

The inner faces of the jaws B B' may be roughened, if desired, in order that they may more readily grasp the wire. They are connected at a point near their outer extremities by a coiled spring, D. The object of this spring is to hold the jaws B B' in contact when power is removed from the pivot E'.

As shown in Fig. 1, the lever may be fulcrumed at the union of the connecting-rods C C' at E'. One arm of this lever may be made to bear against the ground or against the post to which it is proposed to attach the wire, and power applied to the other end of the lever will increase the pressure of the jaws B B' upon the wire A in proportion to the power applied. The greater the power applied the less liability there will be in the wire A slipping in the jaws B B.

In Fig. 2 a link, F, is substituted for the lever, as shown in Fig. 1. The object of this link is to afford a ready means for attaching a fall where it is desirable to do so, and where it would be more conveniently used than the lever—as, for instance, in stretching wire upon telegraph-poles or other elevated places where it would be inconvenient to operate a lever.

My device will be found especially useful in the construction of wire fences, and when it is employed for this purpose I prefer the use of the lever rather than the link, as it can be more readily operated.

The operation of my device is as follows: The wire A is gripped by the jaws B B' at any convenient point. The short arm of the lever E may be brought to bear against any convenient obstacle, power being applied to the long arm of the lever E sufficient to stretch the wire the tension desired, when the end of the wire may be permanently attached to the post, and the gripe of the jaws B B' released from the wire by separating them by hand.

The object of the coiled spring D is to hold the jaws together with sufficient force, that when gripping the wire and no power applied upon the lever there will be enough strain to hold the jaws together with sufficient force to prevent their loosening entirely their gripe upon the wire.

What I claim is—

In a wire-stretcher, the combination, with two clamping-jaws adapted to operate as levers of the second order, and a spring connected to said jaws and tending to draw them together, of two arms having their rear extremities respectively pivoted to the jaws and their forward extremities pivoted to a draft device, substantially as set forth.

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

WILLIAM R. HORSLEY.

Witnesses:

H. L. STILES,
GEORGE N. MINER.