(No Model.)

C. W. WEST.

WIRE STRETCHER.

No. 457,943. Patented Aug. 18, 1891.

Fig. 1.

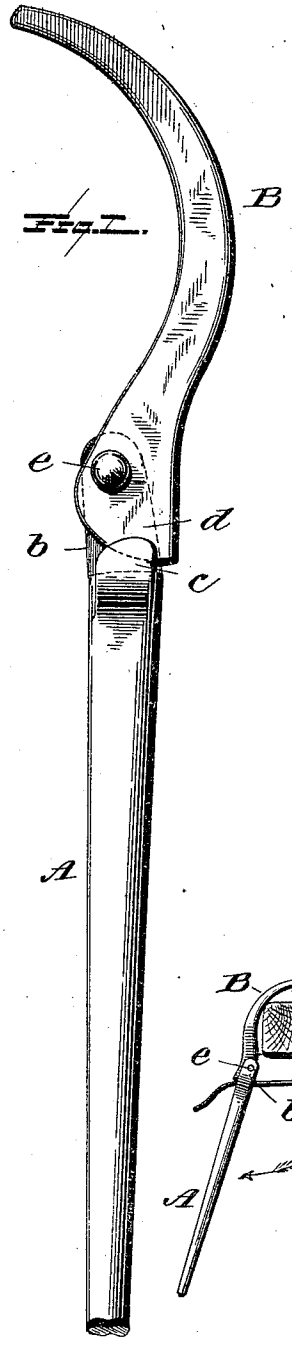


Fig. 2.

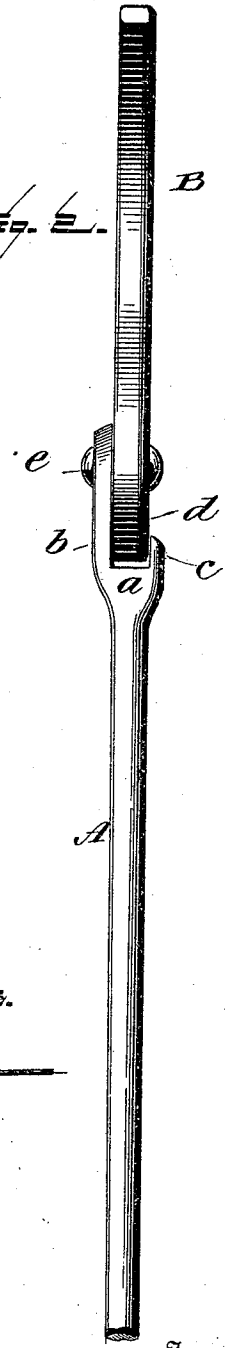
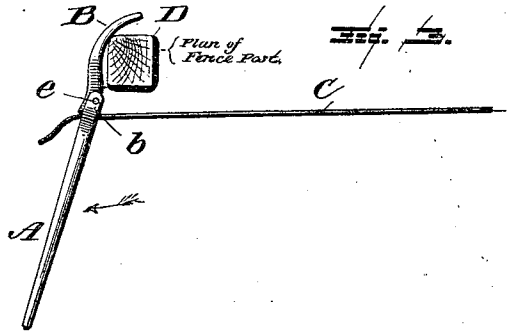


Fig. 3.



Witnesses:

L. C. Hills.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES W. WEST, OF GRAIN VALLEY, MISSOURI.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 457,943, dated August 18, 1891.

Application filed April 21, 1891. Serial No. 389,821. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. WEST, a citizen of the United States, residing at Grain Valley, in the county of Jackson, State of Missouri, 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 certain new and useful improvements in wire stretchers and tighteners, and it has for its objects among others to provide a simple, cheap, durable, and efficient device of this character which can be successfully operated by one man, and the wire stretched perfectly up to the very last post. The stretcher is composed of but two parts, a long and a short lever pivoted together, the one formed with a cam portion and the other with a shouldered portion, whereby the draft is more central and the short arm is kept from side movement and displacement and the wire is prevented from dropping or falling out. Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side view of my improved wire stretcher and tightener. Fig. 2 is an edge view thereof. Fig. 3 is a top plan illustrating the mode of using the device.

Like letters of reference indicate like parts in all the views.

Referring now to the details of the drawings by letter, A designates the long arm of the device, which may be of any desired length, and at one end is broadened, as shown at *a*, being shouldered upon each side of a central line therethrough, one shoulder *b* being extended to form a bearing for the pivot of the short arm and the other *c* forming a guide and keeper for the short arm, as will be readily understood from Figs. 1 and 2.

B is the short arm. It is slightly curved, as shown in Fig. 1, and its inner end is cam-shaped, as seen at *d*. It is pivoted to the shoulder or extension *b* by means of a transverse pivot *e*, and it will be noticed that by reason of the shoulders or offsets the short arm extends in central line with the long arm, so that the draft will be central, as will be readily understood from Fig. 2.

The operation of the device will be readily understood, and is illustrated in Fig. 3, the wire C being placed in the clamp between the shoulders or extensions, and the short arm of the device engaged with the post D, and the long arm then thrown in the direction of the arrow in Fig. 3, the cam-head of the short arm clamping the wire and stretching and tightening it at the same time. When the wire has been made fast, the stretcher is removed and applied at another post. The short extension *c* prevents the wire from falling or dropping out and also keeps the short arm from side movement.

What I claim as new is—

A wire-stretcher consisting of a long arm broadened at one end, and at that end formed with extensions of unequal length upon opposite sides of a central line through the arm, and a short arm pivoted to the longer extension in line with the long arm and having a cam portion extended beyond its pivot and arranged between the extensions, substantially as shown and described.

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

CHARLES W. WEST.

Witnesses:
S. W. PORTER,
W. A. BARRINGTON.