

C. F. ROTH.
Wire-Stretcher.

No. 196,830.

Patented Nov. 6, 1877.

Fig. 1.

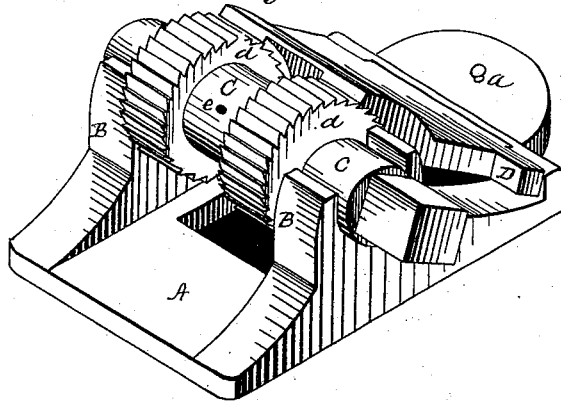


Fig. 2.

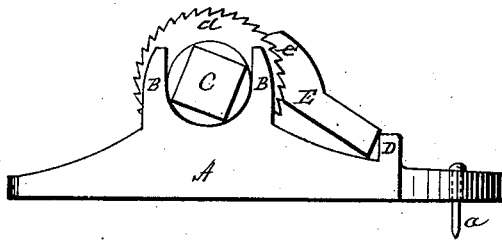
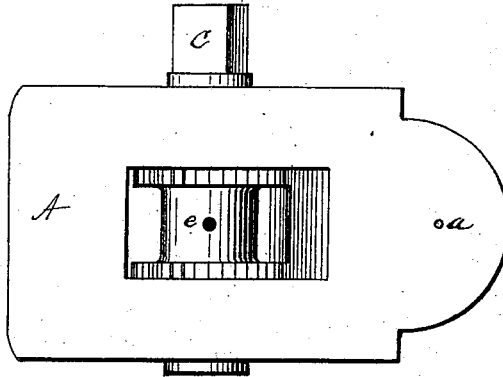


Fig. 3.



Witnesses:
W. C. Guy
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Inventor:
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per atty: *A. H. Evans & Co.*

UNITED STATES PATENT OFFICE.

CHARLES F. ROTH, OF WINTERSSET, ASSIGNOR OF TWO-THIRDS OF HIS RIGHT
TO J. J. HUTCHINGS AND N. W. MUNGER, OF MADISON, IOWA.

IMPROVEMENT IN WIRE-STRETCHERS.

Specification forming part of Letters Patent No. **196,830**, dated November 6, 1877; application filed
April 19, 1877.

To all whom it may concern:

Be it known that I, CHARLES F. ROTH, of Winterset, Madison county, Iowa, have invented a new and useful Improvement in Wire-Fence Tighteners, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my invention. Fig. 2 is a side elevation. Fig. 3 is a view of the rear or flat side of the framework.

My invention relates to devices for tightening wire fences; and it consists in the combination and arrangement of devices hereinafter explained and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents a slotted frame having a flat side to lie snugly against the fence-post, and being provided with a pin, *a*, by which to attach it temporarily to the post while the wire is being placed in position for stretching. This pin may be cast in one piece with the frame A.

On the front of the frame are provided the bearings B B for the shaft C, provided with double-cogged cylinder *d d*, the open drum of

the cylinder between the cogs being perforated with a hole, *e*, of sufficient size to receive the end of the wire through it, and thus secure it while the drum is being wound up.

On the frame A, and above the bearings B B, I form a recessed shoulder, D, against which fits the double-toothed dog E, one set of teeth, *e'*, fitting into each set of cogs upon the cylinder, as shown in Fig. 1, thus forming a cheap, convenient, and powerful brace to lock the cylinder, and prevent it from turning back and releasing the strain upon the wire.

The shaft C may be operated by a wrench or crank-arm in revolving the cylinder.

I am aware that drums constructed with pawls and ratchet-wheels for tightening wire fences are not new, and I do not claim such to be my invention; but

What I claim as new, and desire to secure by Letters Patent, is—

The slotted frame A, provided with the open bearings B B and recessed shoulder D, in combination with the shaft C, provided with double ratchet *d d*, and removable dog E, all constructed to operate substantially as and for the purpose set forth.

CHARLES F. ROTH.

Witnesses:

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