A. Byington,

Wire Stretcher.

No. 111,905. Patented Feb. 21. 1871.

Fig 1.

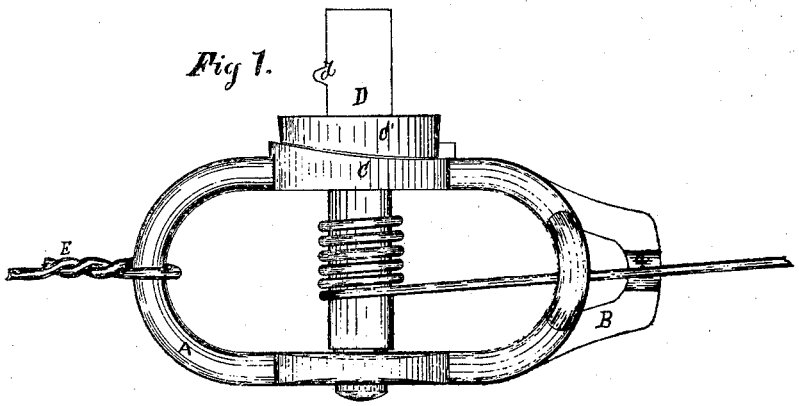
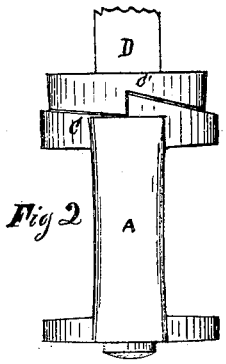


Fig 2



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UNITED STATES PATENT OFFICE.

ALBERT BYINGTON, OF ROCHELLE, ILLINOIS.

IMPROVEMENT IN WIRE-STRETCHERS.

Specification forming part of Letters Patent No. **111,905**, dated February 21, 1871.

To all whom it may concern:

Be it known that I, ALBERT BYINGTON, of Rochelle, in the county of Ogle and State of Illinois, have invented a new and Improved Device for Stretching Fence-Wire; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a side elevation of my invention, and Fig. 2 is an end view of the same.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

The object of my invention is to provide a device by the use of which the wires used in building fences may be properly and firmly tightened; and the improvement consists in a metal frame, within which is secured a shaft or spindle, around which one end of the wire is wound by revolving the same.

It also consists in providing the said shaft or spindle with a clutch, which engages with a corresponding clutch upon the frame, by which the proper tension of the wire is secured.

In the drawing, A represents the metal frame, which has an elliptical form, and is provided at one end with a shank, B, within which is a longitudinal groove or channel, *a*, extending through the end of the frame. The frame is provided at its outer side with a clutch, C, within which is fitted a shaft or spindle, D, extending across and through the frame, and is secured therein in a manner which admits of a revolving movement. One end of said spindle is made in a square form, and is provided with a clutch, C′, which is loosely fitted and so arranged as to engage with the clutch C of the frame. The said spindle is provided upon one side, near the outer surface of clutch C′, with a lip or projection, *d*, by which the clutch is secured upon the same, the distance of the lip from the clutch being such as to allow the said clutch a slight rocking motion, which, together with a slight longitudinal movement of the spindle, allows the teeth of the clutches to pass each other as the spindle is revolved in the proper direction to tighten the wire.

The operation of my invention is as follows: One end of the wire to be tightened is drawn through the groove or channel *a* and passed through an aperture in the spindle. One end of the frame is then made fast to the fence-post by a wire, E. A crank is then applied to the spindle, giving the same a rotating movement, by which the wire is wound around the spindle until the same is properly tightened. The clutches C C′ are then engaged, by which means the tension of the wire is secured.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The frame A, provided with the groove *a* and clutch C, in combination with the spindle D and clutch C′, substantially as described.

ALBERT BYINGTON.

Witnesses:
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