

(No Model.)

W. G. FROST.  
WIRE STRETCHER.

No. 406,642.

Patented July 9, 1889.

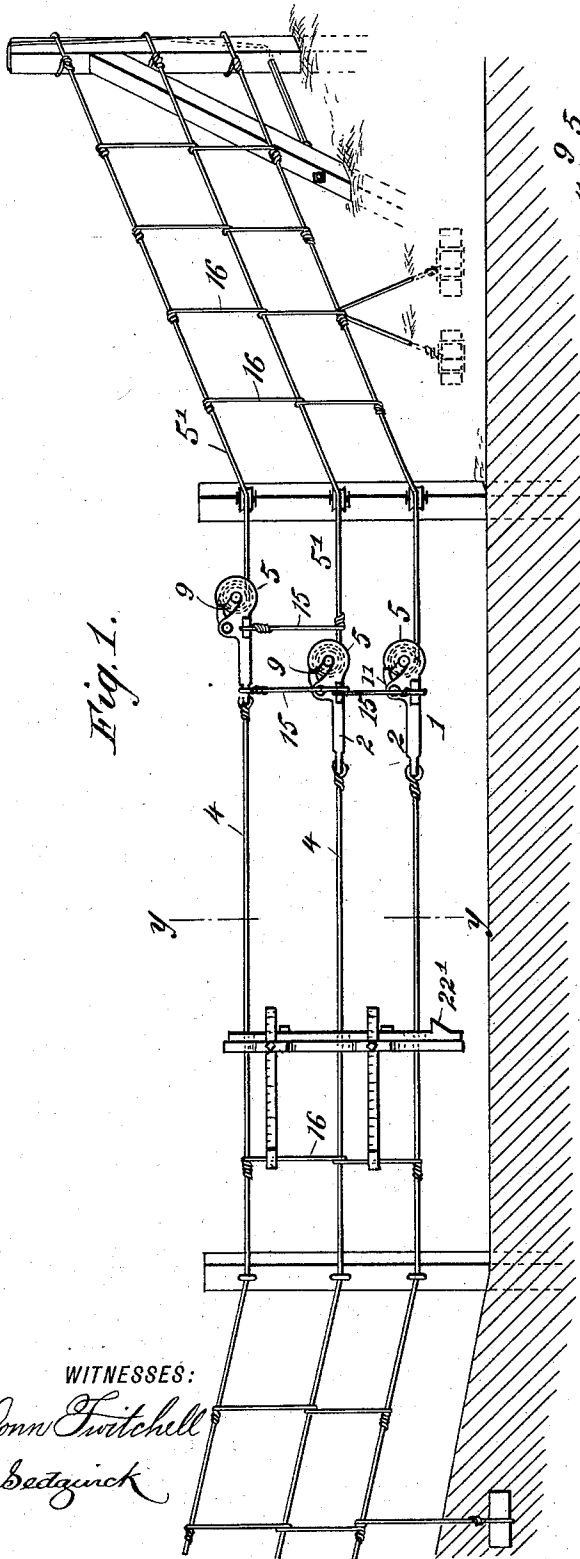


Fig. 1.

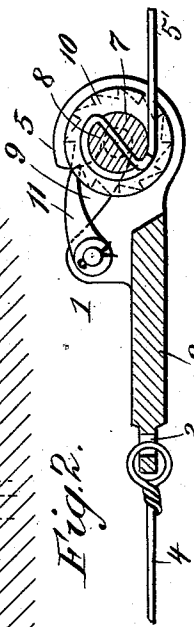


Fig. 2.

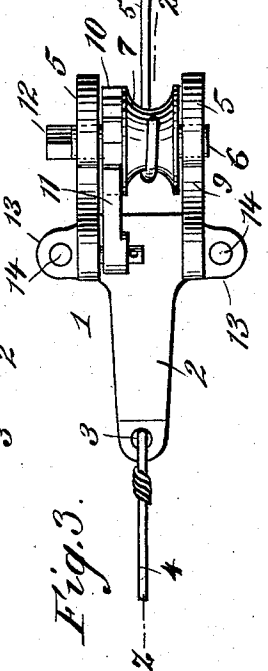


Fig. 3.

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# UNITED STATES PATENT OFFICE.

WILLIAM G. FROST, OF LEBANON, INDIANA.

## WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 406,642, dated July 9, 1889.

Application filed October 3, 1888. Serial No. 287,097. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM G. FROST, of Lebanon, in the county of Boone and State of Indiana, have invented a new and Improved Wire-Stretcher, of which the following is a full, clear, and exact description.

This invention relates to wire-stretchers, and has for its object to provide a wire-stretcher which will be effective in use and may be made a permanent fixture with a wire fence.

The invention consists in a wire-stretcher constructed as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a view of a wire fence with wire-stretchers applied. Fig. 2 is a vertical longitudinal section of the wire-stretcher on the line  $z z$ , Fig. 3, with the ends of a fence-wire broken away; and Fig. 3 is a plan view of the wire-stretcher, with the ends of a fence-wire broken away.

The wire-stretcher consists of a frame 1, preferably of metal and formed with the horizontal portion 2, having an eye or hole 3 at one end, to which is secured an end of a fence-wire 4, passed through the eye 3 and twisted upon the wire 4. The other end of the horizontal portion 2 is provided with two vertical side pieces 5, in which is mounted the axle 6 of a grooved wheel or pulley 7. The latter is formed with a transverse hole 8, through which passes the end of a fence-wire 5', which is secured to the pulley 7 by bending it about the same.

The ends of the axle 6 rest in inclined slots 9 in the side pieces 5, so that the pulley may be readily lifted out of the side pieces 5, when desired. The pulley 7 is provided at one end with a ratchet-wheel 10, with which a pawl 11 on one of the side pieces engages. The axle 6 is formed with a squared end 12, with which a crank may be engaged. By this means the pulley may be turned and held in position by the pawl 11 engaging ratchet-wheel 10 when the fence-wire has been drawn taut.

To steady the wire-stretcher, it is formed

with lateral projections 13, having eyes or holes 14, to which one end of vertical wires 15 may be fastened, the other end of wire 15 being fastened to the fence-wire below or to the hole 14 in projection 13 of the wire-stretcher on fence-wire next below.

The wire-stretcher may be left permanently in position on a fence-wire, a number being so shown in connection with the fence-wires in Fig. 1, or the wire-stretcher may be temporarily employed to stretch the end of a wire, and then detached, the wire being secured in any suitable manner.

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

1. A wire-stretcher consisting of a horizontal frame with means at one end for securing the end of a fence-wire, and a pulley or wheel at the other end with a pawl-and-ratchet wheel and means for operating the same, and lateral projections with means for securing brace-wires thereto, substantially as described.

2. A wire-stretcher consisting of frame 1, with horizontal portion 2, having at one end eye 3, and at the other vertical side pieces 5, a pulley 7, with ratchet-wheel 10, having its axle 6 provided with squared end 12, mounted in inclined slots 9 in the side pieces 5, pawl 11, engaging ratchet-wheel 10, and lateral projections 13, with holes 14, substantially as described.

3. The combination, with a wire-stretcher consisting of frame 1, with horizontal portion 2, having the eye 3 at one end and the vertical side pieces 5 at the other, pulley 7 and ratchet-wheel 10, having axle 6, with squared end 12, mounted in inclined slots in said side pieces, pawl 11, engaging ratchet-wheel 10, and lateral projections 13, with holes 14, of the brace-wires 15, having their ends secured to projections 13, the horizontal fence-wire 4, secured to eye 3, and the fence-wire 5', secured to pulley 7, substantially as described.

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Witnesses:

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