

(No Model.)

A. HILL.  
WIRE STRETCHER.

No. 286,302.

Patented Oct. 9, 1883.

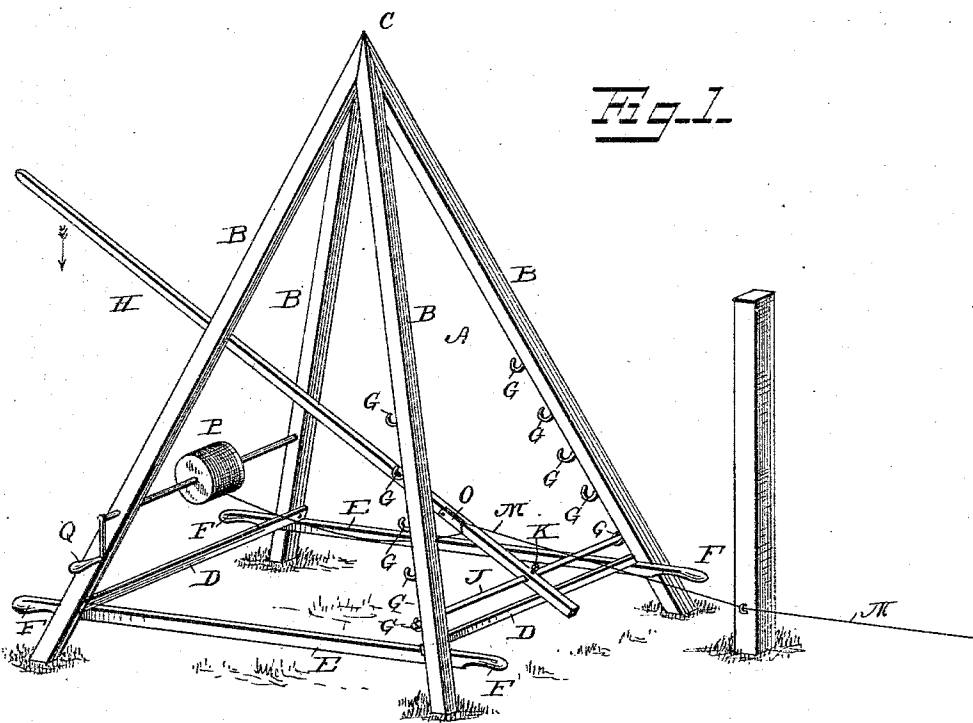
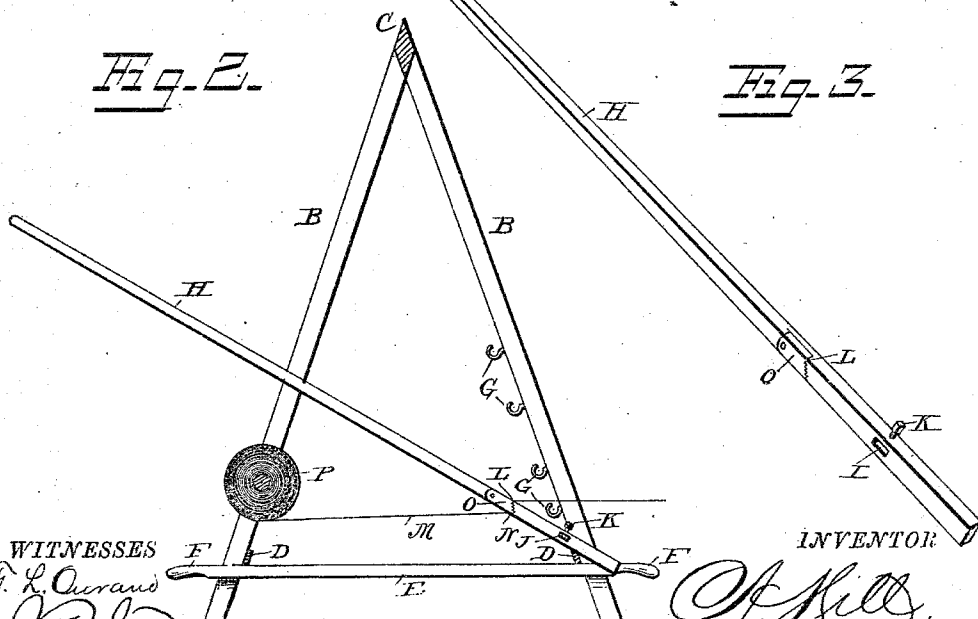


Fig. 2.

Fig. 3.



WITNESSES

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# UNITED STATES PATENT OFFICE.

ALEXANDER HILL, OF BRIGHT SEAT, MARYLAND.

## WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 286,302, dated October 9, 1883.

Application filed June 6, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, ALEXANDER HILL, a citizen of the United States, residing at Bright Seat, in the county of Prince George and State of Maryland, have invented a new and useful Wire-Stretcher, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to wire-stretchers, and its object is to provide a device possessing superior advantages in point of simplicity, durability, inexpensiveness, and general efficiency.

In the drawings, Figure 1 is a perspective view of my improved wire-stretcher in position for operation. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a detail perspective view of the stretching-lever.

Referring to the drawings, A designates the main frame of the device, which comprises four main posts, B, that converge upwardly and inwardly, so that they can be united at their top ends C, and are braced at their lower ends, by cross-pieces D D, at the ends of the frame, and by longitudinal connecting-strips, E E, that are arranged at the sides of the frame, and have their ends F projecting from the latter, to serve as handles in transporting the device. The rear edges of the front posts, B B, of the frame, are provided with a vertical series of projecting hooks or loops, G, the purpose of which will be presently described.

H is the stretching-lever, which is provided near its lower end with a perforation, I, in which is adjustable a transverse fulcrum-bar, J, by means of a set-screw, K, as shown. This fulcrum-bar operates between the bars B of the frame, and is adjustable in the hooks G, the pairs of which correspond in height to the different strands of the fence, so that the fulcrum of the lever can be adjusted to about the same horizontal plane as the strand of the fence that is being stretched. In one side of

the lever is formed a recess that provides an upwardly and rearwardly beveled shoulder, L, against which the wire, which is designated by the letter M, is clamped by the corresponding beveled end, N, of a plate or lever, O, that is pivoted to the lever H in the said recess. These beveled edges L and N are preferably serrated, as shown, to secure a better hold upon the wire, and will tightly secure the latter while the lever H is being brought down in the direction of the arrow, Fig. 1, to stretch the wire. By reason of the bevel being upward and rearward, the plate O is clamped tighter against the shoulder L, as the strain caused by stretching the wire is greater. A drum, P, is journaled between the rear beams, B B, of the frame, to carry the wire and pay it out as the stretcher is moved forward. The shaft of the drum is preferably provided with a crank, Q, as shown.

The operation and advantages of my invention will be readily understood and appreciated. It is very simple and can be conveniently operated.

I claim as my invention—

The combination of the portable frame, comprising the upwardly and inwardly convergent bars, carrying the vertical series of bearing hooks or loops, and the bottom braces, forming transportation-handles, the drum journaled at the rear end of the frame, the stretching-lever having the recess and shoulder and the clamping plate or lever and formed with the fulcrum-opening, and the fulcrum-bar, adjustable in the said opening by means of a set-screw, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALEXANDER HILL.

Witnesses:

W. I. HILL,  
J. H. S. SASSCER.