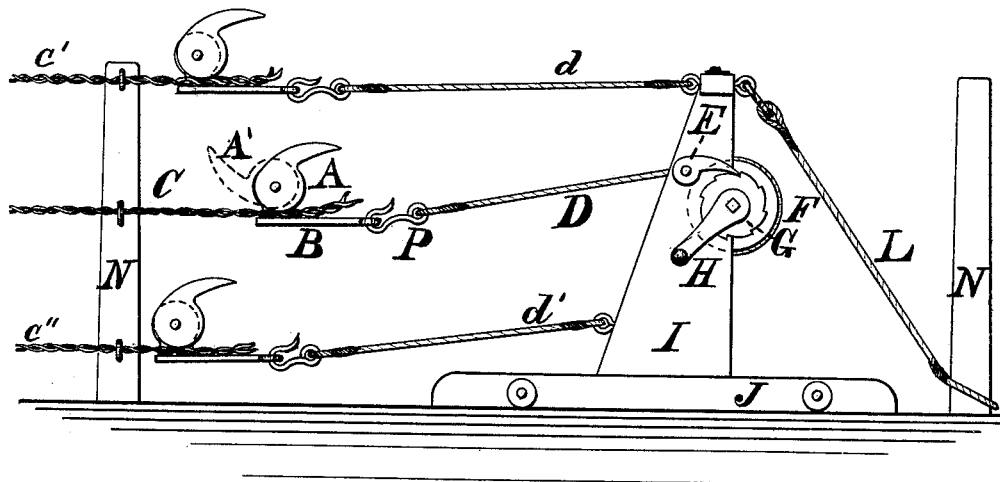


M. SMITH.  
Wire-Stretcher.

No. 220,676.

Patented Oct. 14, 1879.

*Fig. 1.*



*Fig. 2.*



WITNESSES;

Edward H. Hill. }  
Edward F. Tolman. }

INVENTOR;

Moore Smith.

BY HIS ATT'Y: James J. Arnold

# UNITED STATES PATENT OFFICE.

MOORE SMITH, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN WIRE-STRETCHERS.

Specification forming part of Letters Patent No. **220,676**, dated October 14, 1879; application filed June 13, 1879.

*To all whom it may concern:*

Be it known that I, MOORE SMITH, of the city and county of Worcester, State of Massachusetts, have invented a new and useful Improvement in Machines for Stretching Wire Fencing, of which the following is a specification.

My invention is designed to stretch the wires of the fence and hold them until they are secured, and to operate on any number of wires without moving from its position, so that they can all be stretched whether there be one or more wires to the fence, thus completing it at one operation.

Its nature is shown in the accompanying drawings and description.

In said drawings, Figure 1 is a side view of a wire-stretcher embodying my invention as applied to a three-wire fence; and Fig. 2 shows an end view of one of the cam-holders, the same letters indicating the same parts in each.

F is a drum or windlass, hung in the usual way in two standards, I, supported on the base J, and having a ratchet, G, pawl E, and crank H, or other means of operation. To the drum F is attached one end of a flexible connection, D, the other having a hook, P, or other means of attaching the holder B. This holder is made with a cam, A, so arranged that the wire can be laid in from one side when the cam is turned as at A', Fig. 1; and when turned to position A it pinches with a firm hold, the open space for the wire being shown in Fig. 2.

At *d* and *d'* are shown connections for similar cam-holders for relievers to hold the stretched wires.

L is a guy or anchor rope to secure the stretcher to one of the posts N N, between which it is placed. *c*, C, and *c''* are the fence-wires.

In operation, the holder on D is first applied to wire C, and by turning the drum F the desired tension or stretch is obtained, and held by the pawl E until the holder *d* is applied to relieve it. D is then released and applied to *c''*, which is stretched, and D relieved by the holder *d'*. *c'* is then stretched and held while the operator goes and secures the wire to the posts.

The stretching mechanism is then moved and another section of fence operated on, and when placed at the end of a straight line of fence or a corner a crow-bar stuck slanting into the ground, or other anchor, is used for the guy L to hold by, instead of a post.

Having thus fully described my improved wire-stretcher, what I claim therein as new, and desire to secure by Letters Patent, is—

The open-cam relieving-holders *d d'*, in combination with the stretching mechanism and its open cam-holder B, substantially as and for the purposes set forth.

MOORE SMITH.

Witnesses:

C. V. PUTNAM,  
J. G. ARNOLD.