A. GREEN.

Tool for Stretching Fence-Wires.

No. 199,904. Patented Feb. 5, 1878.

Fig. 1

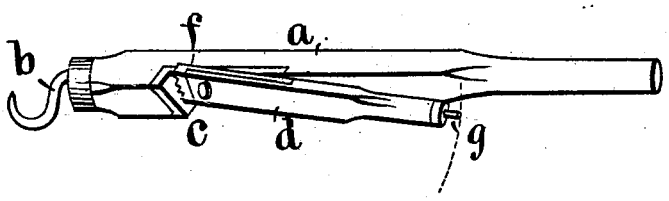


Fig. 2

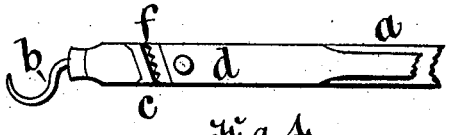


Fig 4.

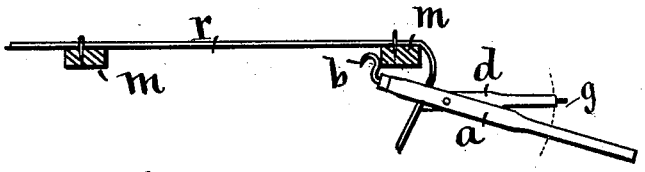
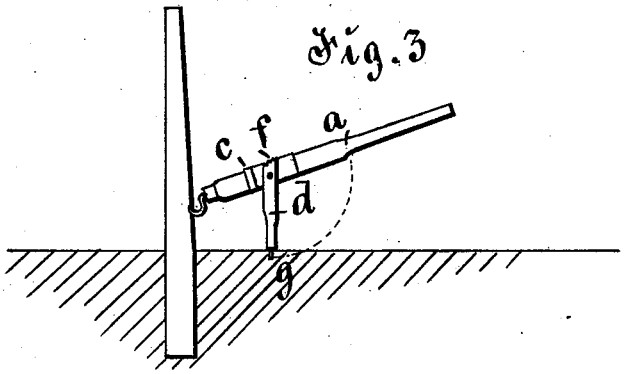


Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

ASAHEL GREEN, OF AURORA, IOWA.

IMPROVEMENT IN TOOLS FOR STRETCHING FENCE-WIRES.

Specification forming part of Letters Patent No. **199,904**, dated February 5, 1878; application filed September 29, 1877.

To all whom it may concern:

Be it known that I, ASAHEL GREEN, of Aurora, in the county of Keokuk and State of Iowa, have invented a Tool for Stretching Fence-Wires, of which the following is a specification:

The object of my invention is to save time and labor in stretching and securing fence-wires to a line of posts, and in taking posts out of the ground.

It consists in combining, with a hand-lever, a hook and an eccentric in such a manner that the complete tool can be alternately and advantageously used as a lever of the first and second kinds, as and for the purposes hereinafter fully set forth.

Figures 1 and 4 of my drawing are views illustrating the construction of my complete tool.

a represents a wooden hand-lever, about four and a half feet long. It may vary in size and weight, as desired. *b* is a hook, rigidly secured to the end of the hand-lever *a* by means of a ferrule, or in any suitable way. *c* represents a metal jaw or shoulder formed integral with a plate that is fitted to the side of the hand-lever, and rigidly fixed thereto by means of rivets or screw-bolts. *d* is a combined lever and eccentric-jaw, pivoted to the lever *a*. The short arm of this pivoted lever *d* has an eccentric and serrated jaw, *f*, formed thereon or fixed thereto, to engage the shoulder or fixed jaw *c*, and clamp and hold a fence-wire.

The serrated and eccentric jaw and the lever may be cast complete in one piece, or the lever may be wood and the jaw metal, and the two parts rigidly combined by means of rivets or bolts.

g represents a pin projecting from the free and square end of the long arm of the pivoted lever *d*. It is designed to prevent the end from slipping when the pivoted lever is placed upon the ground, to serve as a fulcrum for the hand-lever *a*, when the tool is used for pulling posts out of the ground.

Fig. 2 is a plan view illustrating the operation of my invention as a fence-wire stretcher. *m m* represent a series of posts to which the wire is to be attached. *r* is a fence-wire fastened to a row of posts, and its free end passed through the jaw *c* of the tool, and rigidly clamped fast therein. The back of the bent hook is placed against the post, as shown, and the end of the hand-lever seized and pressed around toward the posts to which the wire is fastened. The wire is thus readily stretched tight, and securely held, so that a second person can fasten it to the posts by means of staples, or in any suitable way. The complete tool is thus advantageously used as a lever of the second order by using the post for a fulcrum.

Fig. 3 is a side elevation, illustrating the use of my tool, as a lever of the first order, to pull posts out of the ground.

The minor and pivoted lever *d* is turned at right angles to the major lever *a*, and its end placed upon the ground near the post that is to be pulled out of the ground. The point of the hook *b* is pressed into the post, or hooked into a chain or rope tied around the post near the ground. By then pressing down the long arm of the lever *a* the pivoted lever *d* serves as a fulcrum, and the post is readily hoisted on the end of the short arm of the major lever *a*.

I claim as my invention—

As a new article of manufacture, the tool composed of the hand-lever *a*, having a hook, *b*, and stationary shoulder or jaw *c*, and carrying the pivoted lever *d*, having an eccentric-jaw, *f*, and pin *g*, substantially as shown and described, to be operated in the manner and for the purposes set forth.

ASAHEL GREEN.

Witnesses:

CHARLES SYKES,

GEO. W. HALFERTY.