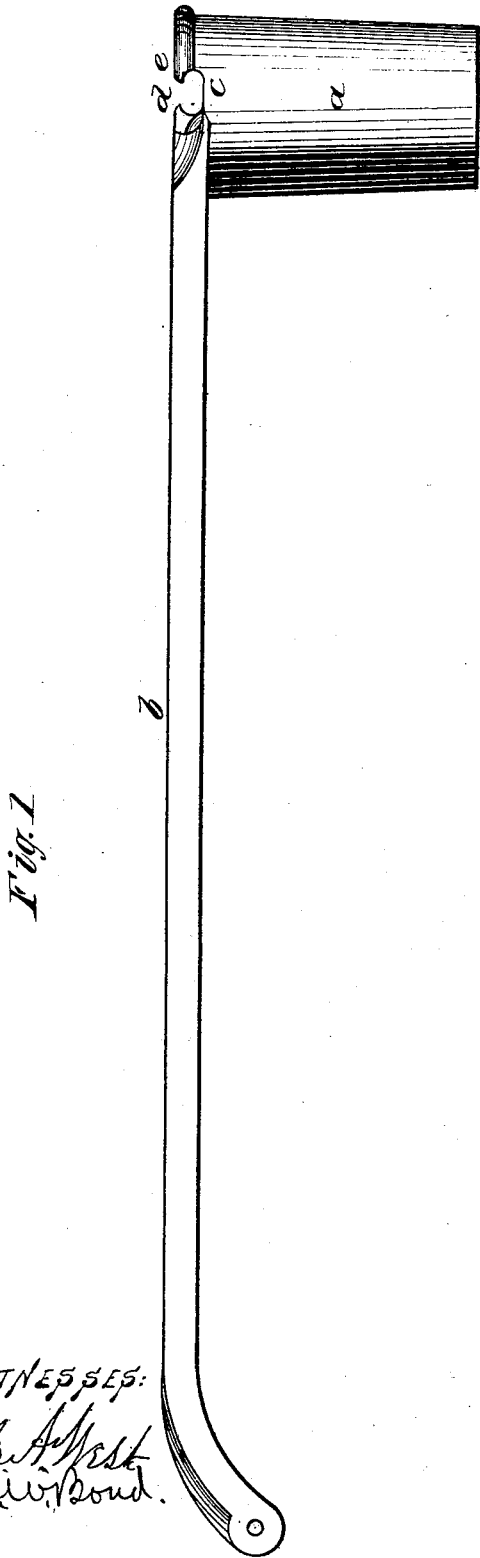


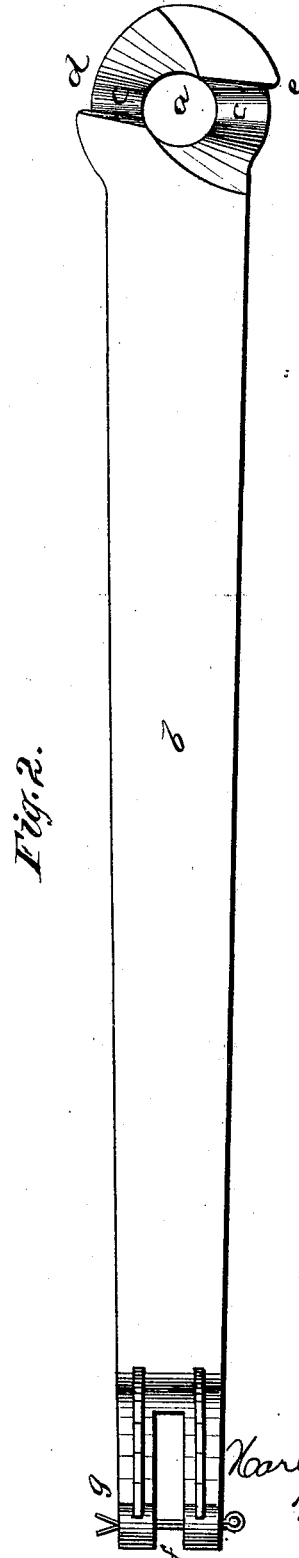
H. P. BARNES.
Wire-Fence Tighteners.

No. 167,052.

Patented Aug. 24, 1875.



WITNESSES:
E. A. West
O. W. Bond.



Harlan P. Barnes
INVENTOR.

UNITED STATES PATENT OFFICE.

HARLAN P. BARNES, OF BRISTOL, ILLINOIS.

IMPROVEMENT IN WIRE-FENCE TIGHTENERS.

Specification forming part of Letters Patent No. **167,052**, dated August 24, 1875; application filed July 21, 1875.

To all whom it may concern:

Be it known that I, HARLAN P. BARNES, of Bristol, Kendall county, State of Illinois, have invented a new and useful Improvement in Wire-Fence Tighteners, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a side view; Fig. 2, a top view.

I am aware that wire-tighteners are now in use which have a head, around which the wire passes as it is tightened. After they have been applied they are liable to turn over, bringing the outer end of the head uppermost. When in this position, in consequence of the weight of the instrument, if the wire becomes a little loose, the head drops out from the wire coiled around it, and the wires at once become loose. To obviate this difficulty is the object of my invention; and I accomplish it by providing the top of the head with a groove and points so arranged that the wire can be passed into such groove and under the points, so that the head cannot slip away from the wire.

In the drawings, *a* represents the head of the device; *b*, an arm or lever attached to *a*. *c* is a groove across the top of the head. *d e*

are two projections located on opposite sides of the top of the head *a*, and on opposite sides of the groove *c*. The outer end of the lever *b* is provided with a notch or claw, *f*, into which the wire is passed after it has been tightened; and by means of a key or pin, *g*, passing through holes the device can be held upon the wire. The instrument can be made of cast-iron.

In use the tightener is to be placed under the wire to be tightened, with the wire in the groove *c*. The instrument is then to be turned, twisting the wire around the head and under the projections *d e* until sufficiently tight. It is then secured by means of the claw and key. To save metal the head may be hollow.

What I claim as new is as follows:

The wire-tightener herein described, consisting of a head, *a*, having a groove, *c*, in the top, and projections *d e* thereon, and an arm or lever, *b*, provided with a notch, *f*, substantially as and for the purposes set forth.

HARLAN P. BARNES.

Witnesses:

E. A. WEST,
O. W. BOND.