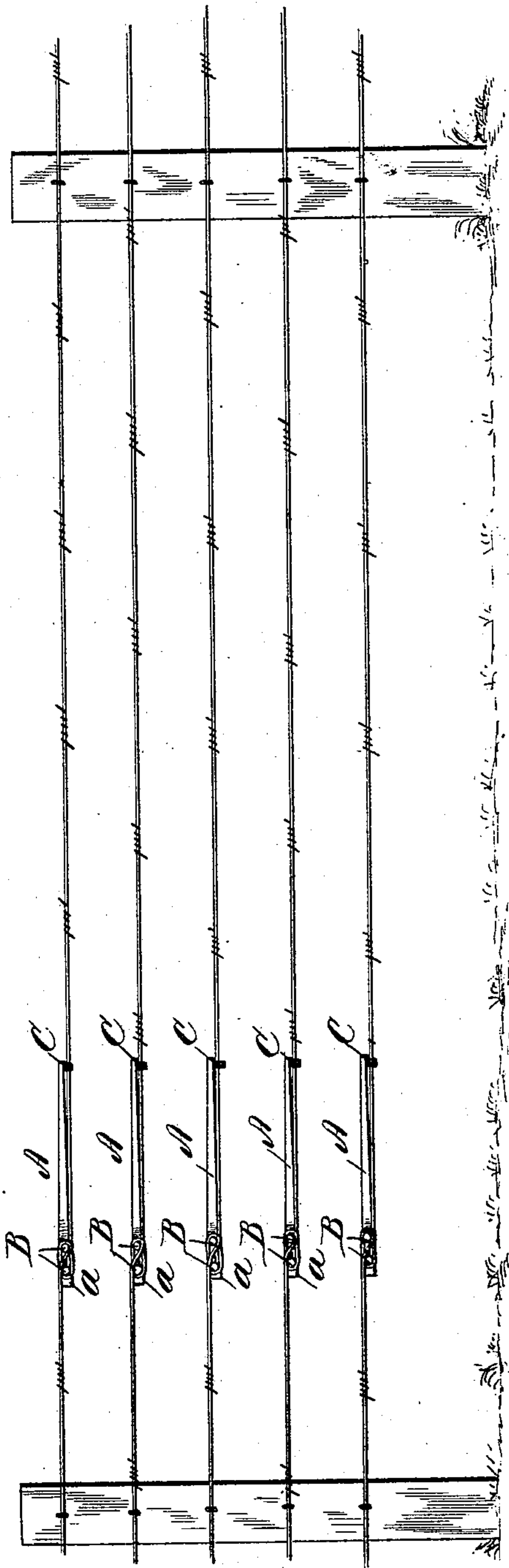
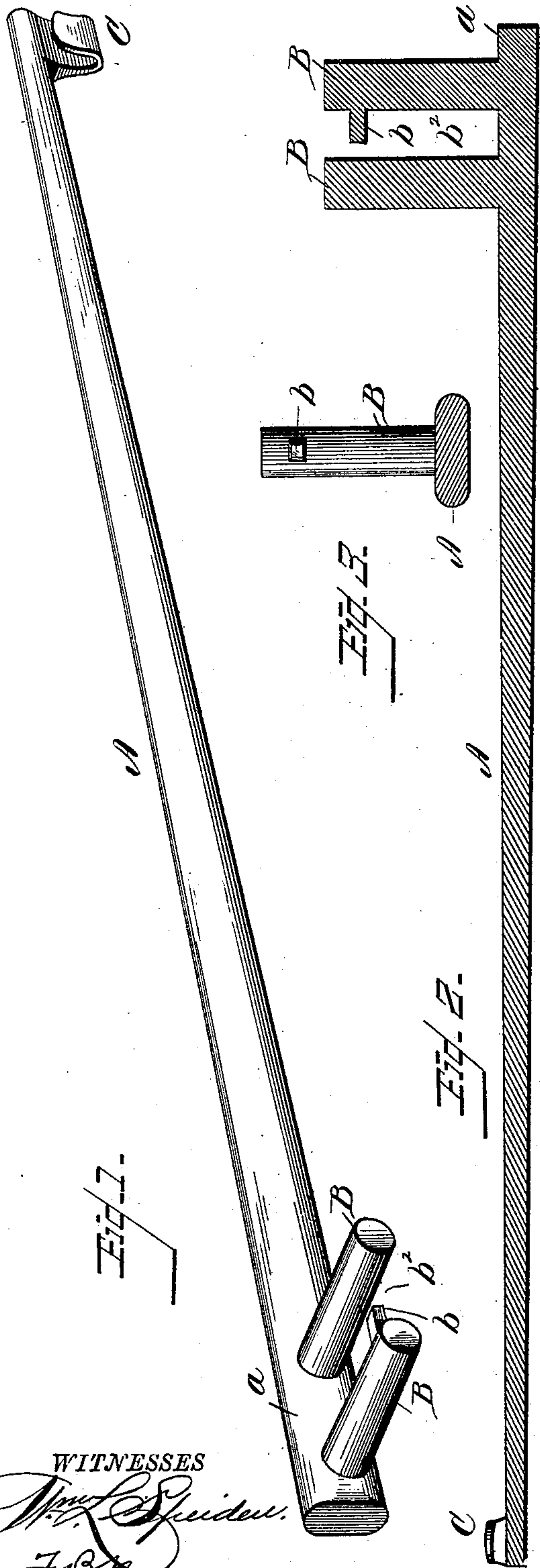


(No Model.)

J. B. IRVINE.
WIRE STRETCHER.

No. 316,039.

Patented Apr. 21, 1885.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN B. IRVINE, OF SHERMAN, TEXAS.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 316,039, dated April 21, 1885.

Application filed July 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. IRVINE, a citizen of the United States, residing at Sherman, in the county of Grayson and State of Texas, have invented certain new and useful Improvements in Wire-Stretchers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to that class of wire stretchers or tighteners which are adapted to be applied upon the strands of wire forming a fence, and are used to tighten or stretch the same by winding the strand about one end of the device and engaging the other end of the latter with the strand.

The object of my improvements is to provide a simple device of this class which will possess advantages in point of inexpensiveness and durability of construction, and convenience, strength, and general efficiency in operation.

In the drawings, Figure 1 is a perspective view of a wire-tightener embodying my improvements. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view in detail, taken on a plane between the winding-pins. Fig. 4 is a side view showing the device in position upon the wire.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates a bar or lever, which forms the body of the wire-tightener, and is preferably flattened at one end, *a*.

From the face of the end *a* project two lateral pins, B B, formed integral with the body, and disposed about centrally and in a longitudinal plane.

A small space, *b*², is left between the integral pins, and from the inner face of one of the pins projects an integral pin, *b*, extending nearly across the space *b*², and disposed near the outer end of the pin B, which carries it. The other end of the bar or lever A is provided with the integral hook C, which projects laterally on a plane at right angles with the pins B B.

My improved stretcher or fastener is preferably formed of cast or malleable iron, and is constructed in a single piece, all of its parts being integral, as shown.

The operation and advantages of my improved wire-stretcher will be readily understood by those skilled in the art to which it appertains. It can be manufactured at a comparatively small cost, and its construction, especially in the arrangement of the two simple lateral pins and the small pin projecting between the same, is exceedingly simple, and enables the device to be readily cast or formed in a single piece.

To stretch and tighten the wire, it is only necessary to place the wire in the space *b*² between the pins B, (in which position it will be retained by the small pin *b*,) and then turn the device until the wire is wound to the desired extent upon the pins, when the hook C is adjusted over the wire to secure the device in position thereon.

It is manifest that my improved wire-tightener is not only useful in repairing breaks and for tightening racked fences, but will answer every purpose in constructing new fences that can be accomplished by more complicated and cumbersome devices of its class; and it is also manifest that in tightening the wire this improved form of tightener draws the latter from both directions at the same time, thus accomplishing efficient action upon great length of wire.

I am aware that wire-stretchers have been heretofore constructed of a bar or lever having a drum at one end, around which the wire is wound, and provided with a hook or catch at the other end, and also that in some constructions of this class of stretchers pins have been employed in lieu of the drum, and I therefore do not broadly claim such construction.

I claim and desire to secure by Letters Patent—

As an improved article of manufacture, the herein-described wire stretcher and tightener, comprising the bar or lever A, having the flattened end *a*, the cylindrical pins B B, projecting laterally from the face of said flattened end, and arranged apart, as described, the

pin *b*, projecting laterally from the inner face
of one of the pins B, near the outer end there-
of, and extending nearly across the space be-
tween the pins, and the single curved hook-
5 piece C, projecting from the other end of the
lever, substantially as and for the purpose set
forth.

In testimony whereof I affix my signature
in presence of two witnesses.

JOHN B. IRVINE.

Witnesses:

J. A. WILLSON,
JULIAN HEDRICK.