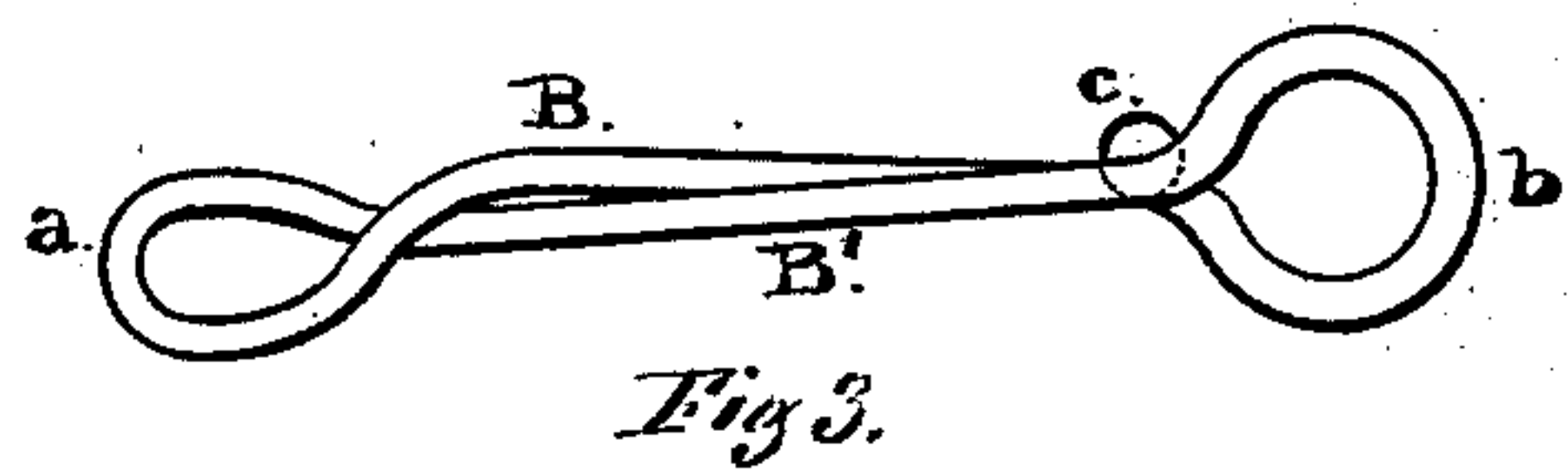
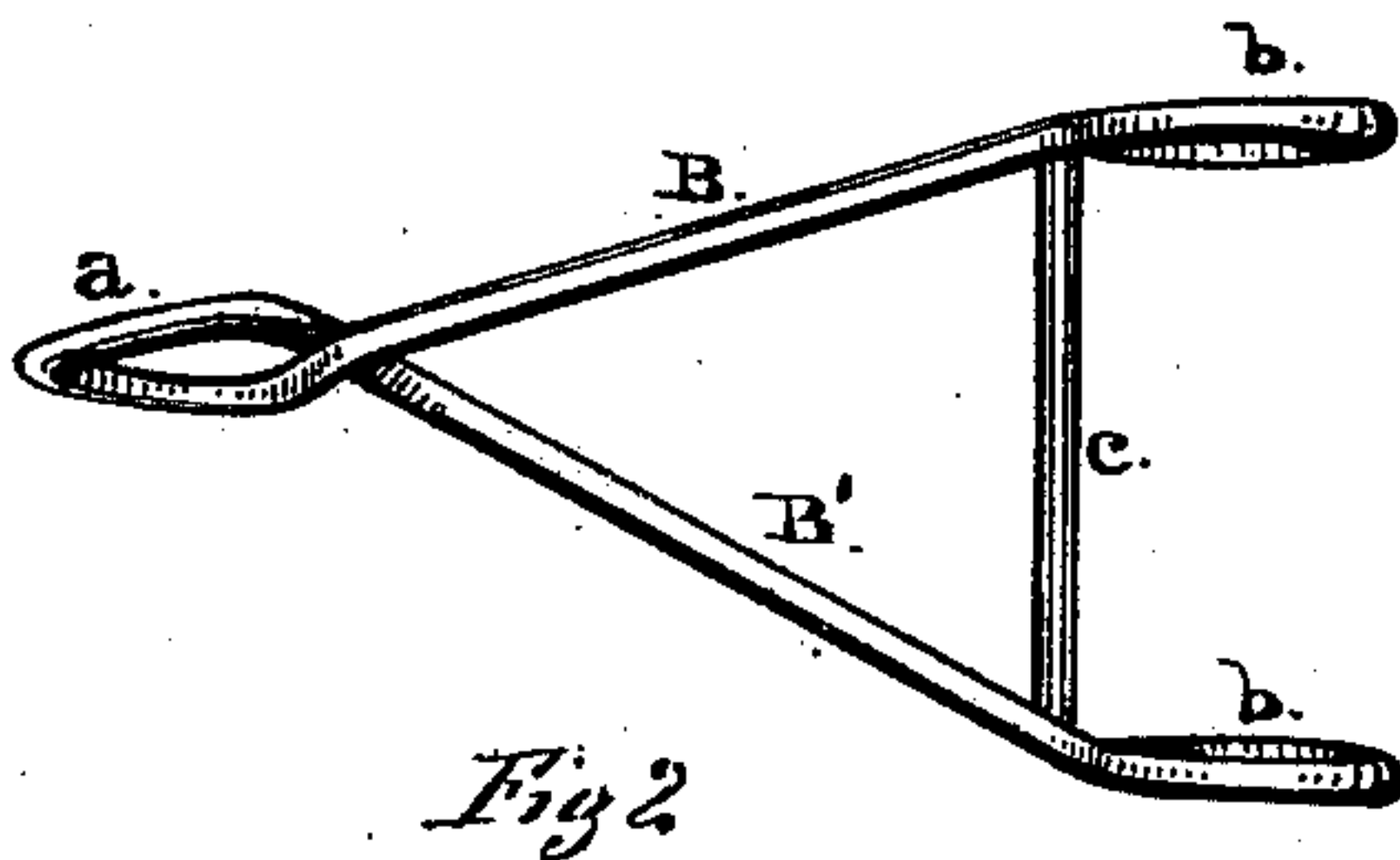
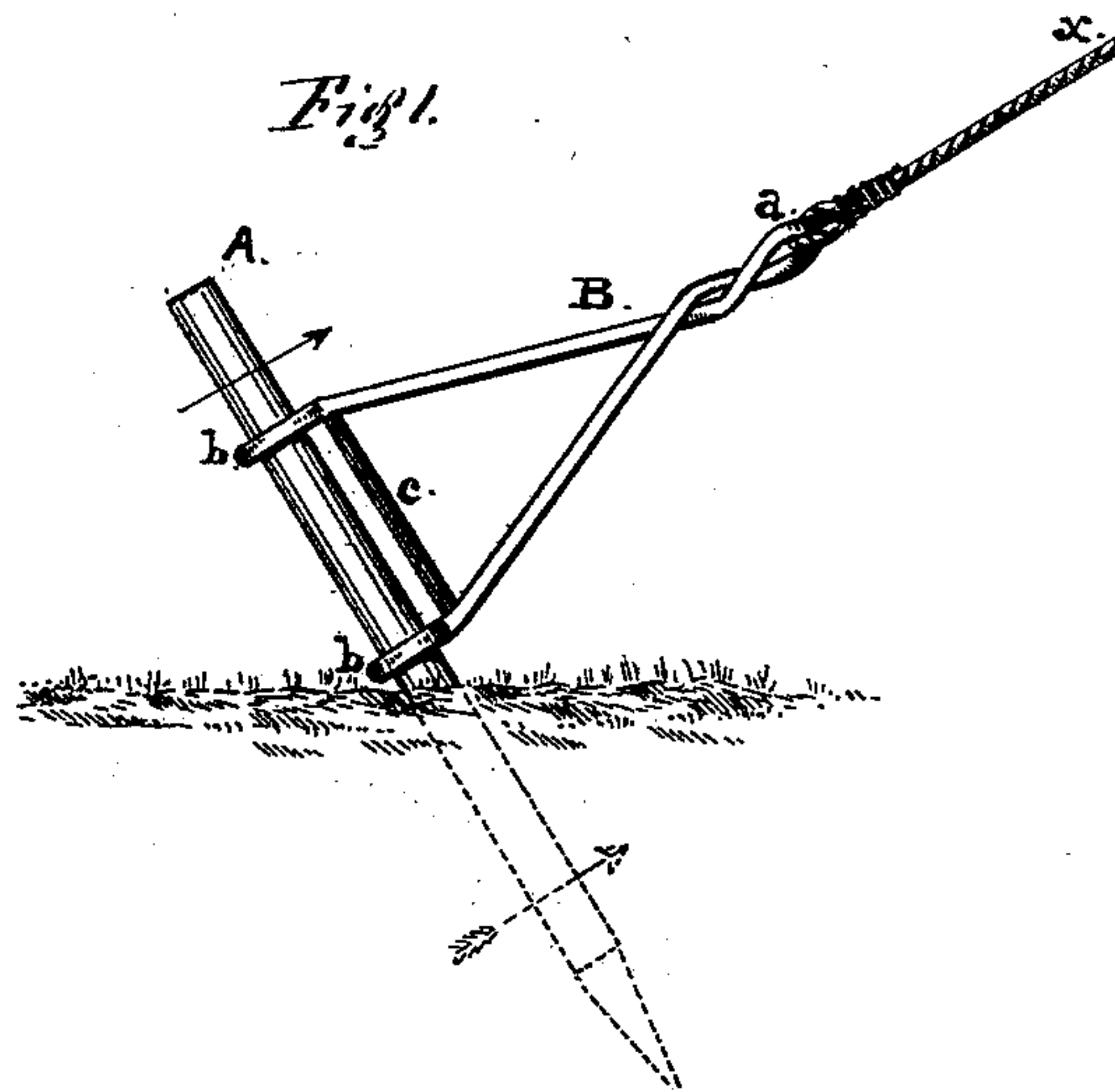


R. P. WILLIAMS.
Derrick-Stake.

No. 215,190.

Patented May 6, 1879.



Witnesses:

Edward G. Osborn.

G. W. Morgan

Inventor:

R. P. Williams.

By C. M. Smith

his Atty.

UNITED STATES PATENT OFFICE.

R. P. WILLIAMS, OF ALAMEDA, CALIFORNIA.

IMPROVEMENT IN DERRICK-STAKES.

Specification forming part of Letters Patent No. **215,190**, dated May 6, 1879; application filed February 14, 1879.

To all whom it may concern:

Be it known that I, R. P. WILLIAMS, of Alameda, in the county of Alameda and State of California, have invented a certain new and useful Improvement in Derrick-Stakes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being made to the accompanying drawings, and the letters and figures marked thereon.

My invention, herein described, relates to an improvement in derrick-stakes of that class for which Letters Patent of the United States were granted to me February 25, 1879.

It consists, mainly, of a solid wood or metal stake, with a pointed end for driving, and a movable yoke or means for securing the guy-rope to the stake, by which the strain or pull upon the rope is distributed along the length of the stake, instead of being confined to one point; and it has for its object to produce a guy-yoke or holder for stakes which shall be of cheaper and simpler construction than any heretofore made.

In the accompanying drawings, Figure 1 is an elevation of my invention as in position. Fig. 2 is a view in elevation of the yoke. Fig. 3 is a plan view of the same.

A represents a solid stake of wood or metal, with a pointed end for driving. B is a sliding yoke, which fits over the stake and has secured to it the guy-rope *x*. This yoke is formed of a rod of proper thickness by bending it at or near the middle and making at that point an eye or loop, *a*, and then bending each end around a mandrel or former, into an eye or ring, *b b*, to embrace and slide upon the stake. These rings are held at a distance apart, and directly over each other, by a brace, *c*, consisting of a rod secured rigidly between these rings thus formed on the ends of the rod B.

The diagonal arms B' and the brace *c* have the shape of a triangle when they are thus fixed together, and with the loop *a* at the apex

and the rings *b b* at the opposite angles vertically over each other.

The rings *b b* are formed or secured solidly, so that they shall resist any tendency to be pulled apart or out of shape, and they can be made of any form to fit the stake.

As thus constructed my invention operates to apply and distribute the pull or strain of the guy-rope equally upon and along the length of the stake, and cause the two forces of power and resistance to act in a direction more directly opposed to each other. The tendency of the stake to overturn is greatly reduced, also, as the earth in front of the driven portion of the stake for its entire depth must yield and be moved horizontally before the stake will be loosened from its place.

The strain upon the stake, instead of being at one point and in a diagonal direction, is caused to act more nearly at right angles.

In order to insure against slipping in cases where the stake may not be driven in a proper direction, a set-screw, or a pin working through the side of one of the rings and against or into the stake, can be used to hold the yoke.

As thus constructed it is believed that a considerable saving in cost of manufacture of my yoke will be effected when compared with the cost of my former invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In combination with a driven wood or metal stake, a yoke, B, consisting of the arms B' B', eye or loop *a*, rings *b b*, and rod or brace *c*, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 28th day of January, 1879.

R. P. WILLIAMS. [L. S.]

Witnesses:

WM. S. CAMPBELL,
C. W. M. SMITH.