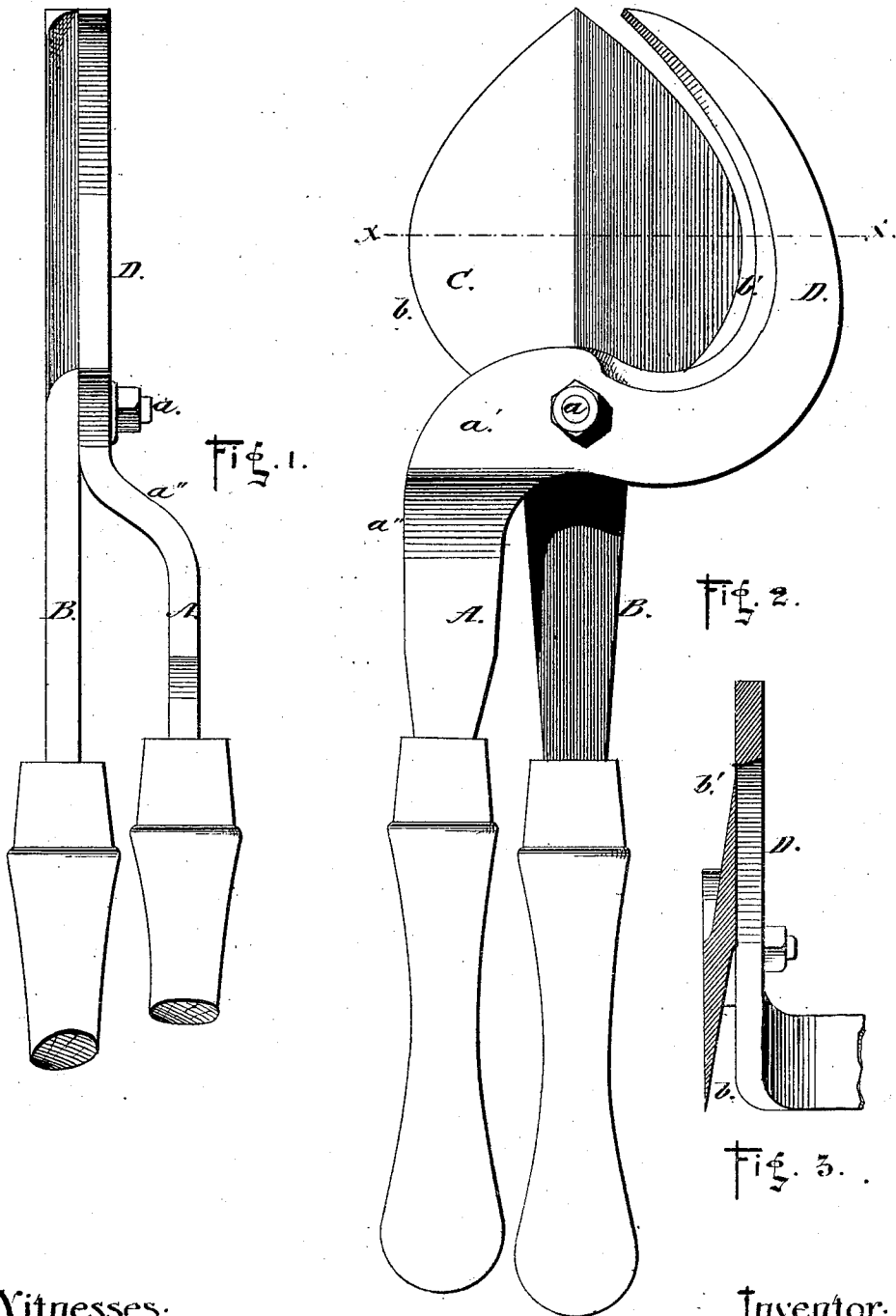


W. C. MOREAU & H. J. WALDO.
Improvement in Pruning-Shears.

No. 132,850.

Patented Nov. 5, 1872.



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UNITED STATES PATENT OFFICE.

WILBER C. MOREAU, OF BATAVIA, AND HOWARD J. WALDO, OF ELBA, N. Y.

IMPROVEMENT IN PRUNING-SHEARS.

Specification forming part of Letters Patent No. 132,850, dated November 5, 1872.

To all whom it may concern:

Be it known that we, WILBER C. MOREAU, of the town of Batavia, county of Genesee and State of New York, and HOWARD J. WALDO, of the town of Elba, county of Genesee and State of New York, have invented certain Improvements in Pruning-Shears, of which the following is a specification:

Our invention relates to improvements in pruning-shears having a double or reversible cutting-blade, and more fully hereinafter described.

In the annexed drawing, Figure 1 is an edge view; Fig. 2 is a side view; and Fig. 3, a section through line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

A and B represent the levers, having handles attached in the usual manner, and pivoted together by the screw-bolt *a*. The lever B is straight, and carries at its end the heart-shaped blade C, which operates in connection with the hook-jaw D on the lever A to form the pruning-shears. The heart-shaped blade has two cutting-edges, *b* and *b'*, thus forming a double or reversible cutting-blade. These blades have one flat side or plane surface, which coincides with the under side of the hook-jaw, thereby insuring a clean smooth cut. The other side of the said blade is beveled off so as to bring it to a sharp cutting-edge. These blades are joined as it were at a central line drawn from the pivot to the point of the blade, back to back, and each half having one plane and one

beveled side, as seen in Fig. 3. The jaw D extends beyond the pivot *a* so as to form an elbow, *a'*, where it joins the shank or lever A. The lever A is also bent, as seen at *a''*, so that the handles are not in the same plane, and do not meet but pass by each other, as seen in Fig. 1. By the use of the elbow *a'* we get good leverage, and by the bent shank we are enabled to use long handles, and use the shears for large limbs without giving the handles a movement so great as to be beyond the control of the operator's hands. This form of the lever A *a'' a'* is of great utility as used in connection with the reversible blade, as the lever carrying the reversible blade must always be straight, and unless used with our peculiar-shaped hook-jaw and lever will be unwieldy and inconvenient. When one of the cutting-blades becomes dull or unserviceable, the blade is easily reversed, so as to bring the other cutting-side into work, by withdrawing the bolt *b* and turning over the blade C and again adjusting the bolt.

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

The combination of the lever B, reversible blade C, and the lever A *a'' a'*, and hook-jaw D, substantially as described.

WILBER C. MOREAU.
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650