

J. N. HARRISON & F. B. LEWIS.
Combined Hedge and Pruning Shears.

No. 217,531.

Patented July 15, 1879.

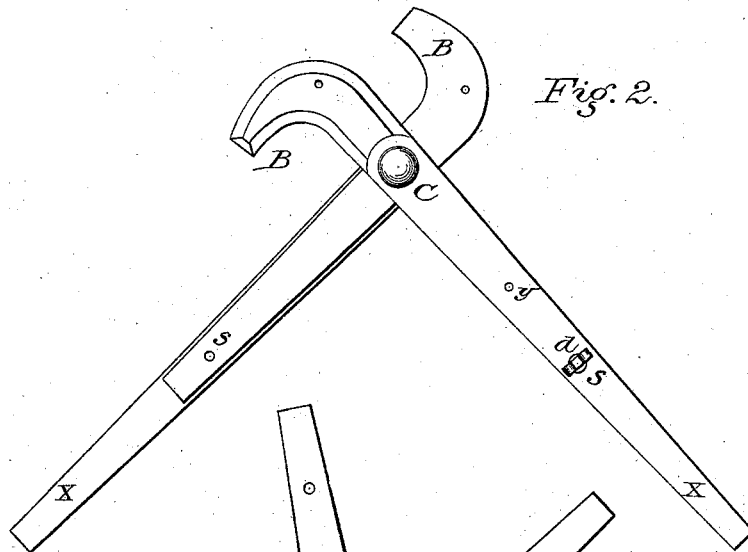


Fig. 2.

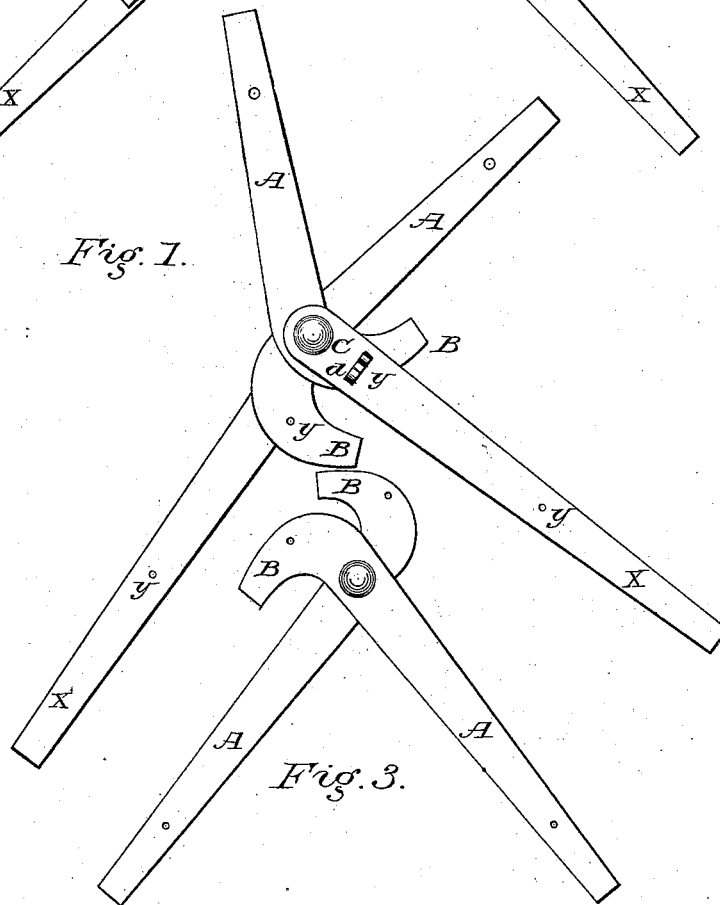


Fig. 1.

Fig. 3.

Witnesses:

A. J. Hart.
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UNITED STATES PATENT OFFICE.

JOHN N. HARRISON AND FRED B. LEWIS, OF ROCHESTER; SAID HARRISON
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IMPROVEMENT IN COMBINED HEDGE AND PRUNING SHEARS.

Specification forming part of Letters Patent No. **217,531**, dated July 15, 1879; application filed
February 17, 1879.

To all whom it may concern:

Be it known that we, JOHN N. HARRISON and FRED B. LEWIS, of Rochester, Monroe county, State of New York, have invented certain Improvements in Combined Hedge and Pruning Shears, of which the following is a specification.

Our invention relates to reversible hedge and pruning shears with eight cutting-edges, four for the portion used as hedge and four for the portion used as pruning shears, as more fully hereinafter described.

In the annexed drawings, Figure 1 is a view of the portion used as hedge-shears, and Fig. 2 is a view of the portion used as pruning-shears.

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

A B and A B represent the knives complete with eight cutting-edges before being attached to the handles, as shown in Fig. 3.

A A represent the portion used as hedge, and B B the portion used as pruning, shears, each having four cutting-edges, and being reversible by simply letting the handles X X pass.

The handles X X and blades or knives A B and A B are attached by the bolt C passing through both the knives and handles.

A lever for the hedge-knives A A is formed

by set-screws *d d* passing through holes *y y* in the handles into the knives B B, and, when reversed, a lever for the pruning-knives is formed by passing set-screws *d d* through holes *s s* in the handles into knives A A, making a complete lever.

We are aware that reversible pruning-shears similar to ours have been used, but not in connection with reversible hedge-shears, which we believe to be entirely new, and do not believe that reversible shears with straight levers have been used in which the handles are allowed to pass as in our invention.

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

The handles X X, provided with holes *s s* and *y y*, in combination with the reversible blades A B A B, adapted to be secured to the handles by bolt C, and set-screws *d d*, substantially as and for the purpose set forth.

In witness whereof we have hereunto signed our names in the presence of two subscribing witnesses.

JOHN N. HARRISON.
FRED B. LEWIS.

Witnesses:

A. S. HART,
E. H. GANTT.