

S. Gamwell,

Pruning Tool.

No. 107,172.

Patented Sept. 6. 1870.

Fig. 1

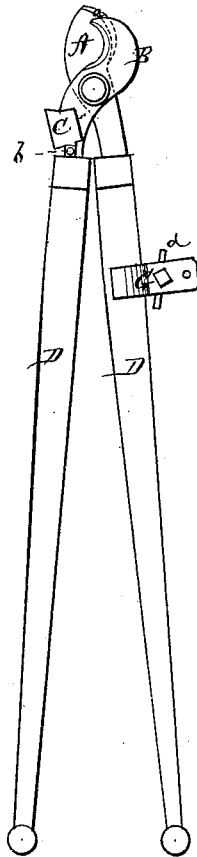
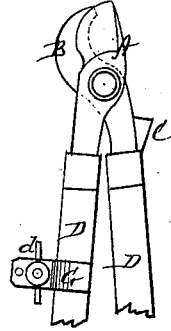


Fig. 2



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL GAMWELL, OF WAYLAND, MICHIGAN.

IMPROVEMENT IN PRUNING-TOOL.

Specification forming part of Letters Patent No. **107,172**, dated September 6, 1870.

To all whom it may concern:

Be it known that I, SAMUEL GAMWELL, of Wayland, in the county of Allegan, and in the State of Michigan, have invented certain new and useful Improvements in Pruning-Tool; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a pruning-tool, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of the entire pruning-tool, and Fig. 2 is an opposite side view of the upper end thereof.

A represents the knife, and B the guard, pivoted together, as shown, and provided with handles D D.

The knife A and guard B are so shaped that they let the limb rest on the joint. With the knife drawing it cannot slide or roll and slip the bark; also, it cuts much easier.

The guard and knife are made with all the concave portions swaged round, so that there are no square corners, as steel will break much easier from a concave corner than if it is rounded.

The knife is short, only long enough to pass through as large a limb as the tool is intended to cut, so that all are cut in the same place.

The guard is just long enough to pass the

center of as large a limb as the tool can cut, sufficient to hold, and no longer, as any more is in the way when putting it on the limb.

There is a short bevel, *a*, on the inside of the knife, or round up close to the edge, so that it will not run toward the guard and chill the knife.

As the tool always works with the knife toward the tree, the bevel *a* inclines the knife still closer, and cuts all the timber the guard touches.

A chisel, C, for sprouting, is made fast at the end of handle, with a joint, *b*, so that it can be shut, and be entirely out of the way when not wanted.

A short stiff saw is attached to one of the handles by means of a clasp, G, and set-screw, *d*, so that any size limb can be cut off.

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

1. In combination with knife A and guard B, the chisel C, pivoted at *b*, as described, and for the purposes herein set forth.

2. The combination of the knife A, guard B, handles D D, chisel C, and clasp G, all constructed and arranged as described, to operate substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of July, 1870.

SAMUEL GAMWELL.

Witnesses:

A. N. MARR,
HARRY KING.