

W. L. SHAW.
Pruning-Hook.

No. 197,415.

Patented Nov. 20, 1877.

Fig. 1.

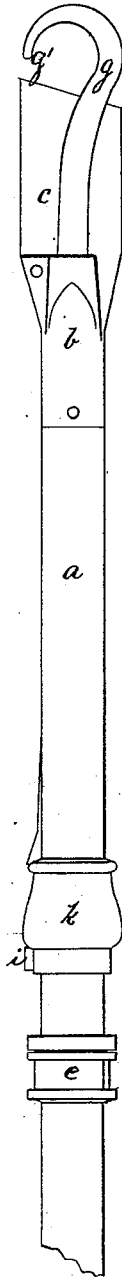


Fig. 2.

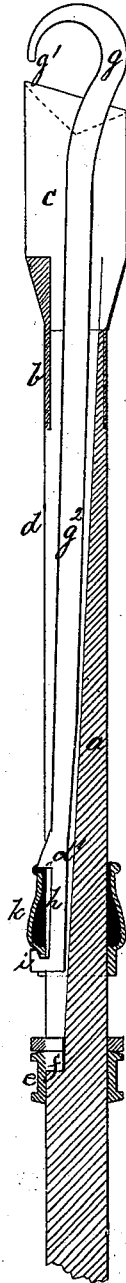


Fig. 3.

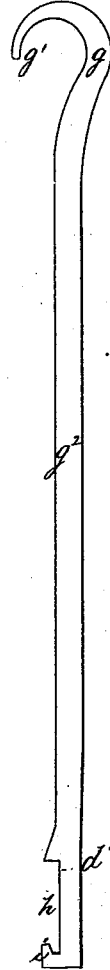
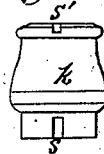


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

WALTER L. SHAW, OF BULLSKIN TOWNSHIP, FAYETTE COUNTY, PA.

IMPROVEMENT IN PRUNING-HOOKS.

Specification forming part of Letters Patent No. **197,415**, dated November 20, 1877; application filed September 20, 1877.

To all whom it may concern:

Be it known that I, WALTER L. SHAW, of Bullskin township, in the county of Fayette and State of Pennsylvania, have invented a new and useful Improvement in Pruning-Hooks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is an elevation of a pruning-hook embodying my invention. Fig. 2 is a longitudinal section of the same. Figs. 3 and 4 are detached views of the hook and its hand-ring.

Like letters refer to like parts wherever they occur.

My invention relates to pruning-hooks, wherein a hook is employed to steady the branch under the stroke of a sliding chisel.

My invention consists, first, in the novel combination of the hook provided with a stem adapted to rest in a slot or groove in the chisel-stock; a chisel-stock grooved to receive the hook-stem, and slide upon the same; a chisel connected directly to the chisel-stock and operated thereby; and a hand-ring for steadying the hook while the chisel is moved thereon, whereby a simple, compact, and effective implement is obtained; secondly, in connecting the sliding hand-ring of the hook to the hook-stock by a recess and slots, or equivalent devices, thus simplifying the construction and adjustment of the devices; and, finally, in combining, with the chisel-stock, a ring or ferrule, which serves as a stop for the hand-ring of the hook-stock, as well as to strengthen and bind the chisel-stock, all as hereinafter more fully described and claimed.

The object of the present invention is to simplify and cheapen the cost of manufacture, and at the same time to make a substantial, durable, and effective pruning-hook.

I will now proceed to describe my invention so that others skilled in the art to which it appertains may make and use the same.

a represents the pole or chisel-stock, provided at its upper end with a ferrule or slotted cap, *b*, to which is secured the chisel *c*.

The chisel *c* may have an oblique edge, as shown, or, if preferred, may be otherwise shaped or notched, as indicated in dotted line.

Extending longitudinally along the pole or stock *a*, to within about an arm's length of the foot of the stock, is a groove or recess, *d*, for the reception of the stock or tang of the hook. Around the pole *a*, at the end of slot *d*, is placed a ferrule, *e*, provided with a tongue or lip, *f*, which extends into the recess *d'*, said tongue, together with the ring or ferrule *e*, serving to bind the pole and prevent its splitting, and to receive the thrust of the butt of the hook stock or stem.

g represents the hook, whose point *g*¹ is preferably turned in sufficiently far to avoid any liability of its catching with and crossing the chisel. This hook has a stem, *g*², continuous therewith, of flat metal, one-half (or less) the diameter of the chisel-stock, and somewhat less in length than the stock *a*. Its lower end is cut out or notched, as at *h*, to receive the sliding hand-ring, and has a hook, *i*, to lock therewith.

k represents a sliding hand-ring for controlling the hook, usually formed with a protuberant portion or flange, to form a purchase for the hand of the operator. This ring is somewhat wider than the slot formed in the hook-stock, and is notched, as at *s s'*, so that it will engage with the slot *h* of the hook-stock.

The groove *d* of the chisel-stock should correspond in depth with the width of the hook-stock, or else the hand-ring *k* may slip out of the notches and wedge the hook so that it cannot be readily manipulated; and, for convenience in adjusting and connecting the parts, the lower part of the stem or hook-stock *g*² is preferably hollowed or cut away slightly, as at *d'*.

To prevent the battering of the hand-ring *k* and the lower end of the hook stock or stem *g*², a leather or rubber washer, with lip corresponding to tongue *f*, may be interposed between ring or ferrule *e* and hand-ring *k*.

The several parts are put together as follows: The ring or ferrule *e* is slipped upon the chisel-stock, with its tongue *f* sliding in groove *d*, and is driven down to its seat. The hand-ring *k* is then slipped upon the chisel-stock, and the chisel secured in position, after which the stem or lower end of hook-stock *g*² is passed through the slot of the chisel-ferrule *b* until it projects slightly beyond the same; the hand-ring is

brought up to position, and its lower edge slipped under hook *i* until the upper edge will enter with its slot the slot of stem *g*², when the hand-ring *k* may be drawn down on the stock, carrying with it the stem or hook-stock *g*².

In using the devices, the hand-ring *k* is pushed along the rod until the hook *g* projects a sufficient distance. The hook is then passed over the branch to be cut, is steadied and fixed by holding the hand-ring *k*, and the chisel is then operated through its stock *a*.

The advantages of my devices are strength, durability, simplicity, and power.

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

1. The combination, in a pruning-hook, of the hook provided with the stem adapted to rest in a groove in the chisel-stock; a chisel-stock grooved to receive the hook-stem and

slide thereon; a chisel connected directly to the chisel-stock, and operated thereby; and the hand-ring for steadying and controlling the hook while the chisel-stock is slid thereon, substantially as specified.

2. In a pruning-hook, the hook having the open slotted stem, as at *h i*, in combination with the hand-ring, notched as at *s*, substantially as and for the purpose specified.

3. In combination with the grooved chisel-stock, the ferrule or ring, having a lip which enters the groove of the chisel-stock, substantially as and for the purpose specified.

In testimony whereof I, the said WALTER L. SHAW, have hereunto set my hand.

WALTER L. SHAW.

Witnesses:

JAMES I. KAY,
JAMES K. BAKEWELL.