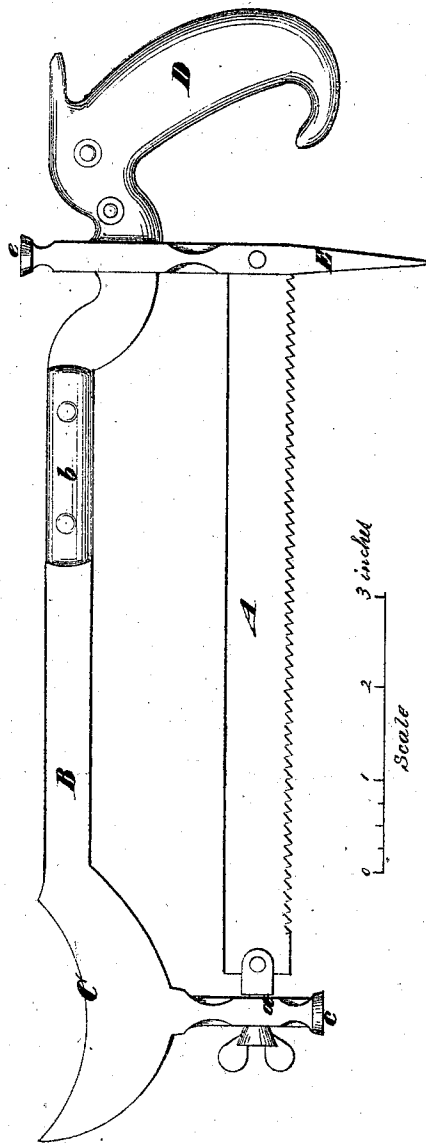


JOHN MADDY.

Improvement in Grafting Tools.

No. 120,986.

Patented Nov. 14, 1871.



Witnesses
J. H. Haines
R. L. Kabeau

per John Maddy
By [Signature]
Attorney

UNITED STATES PATENT OFFICE.

JOHN MADDY, OF CLEARFIELD, PENNSYLVANIA.

IMPROVEMENT IN GRAFTING-TOOLS.

Specification forming part of Letters Patent No. 120,986, dated November 14, 1871.

To all whom it may concern:

Be it known that I, JOHN MADDY, of the city and county of Clearfield, in the State of Pennsylvania, have invented a new and Improved Grafting-Tool; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming a part of this specification.

This invention consists in the combination and arrangement in one instrument of a hack-saw, a splitting-knife, and a wedge, whereby the necessity for carrying a number of tools up into a tree is obviated, and a very handy instrument is obtained.

The accompanying drawing represents a side or face view of my grafting instrument.

A is the saw, which is strained from its frame B in the ordinary manner. At the extreme forward end of said frame there is formed a knife, C, of curved form, whose edge is on the opposite side of the frame from that of the saw. On the rear portion of said frame, near the main handle D, is a handle, *b*, composed of two wooden strips riveted in place, which is held during the use of the knife or wedge. Projecting from the middle of the back of the knife is a portion, *a*, of the frame, to which the forward end of the saw is secured, and at the end of this portion is a head, *c*, which is struck by a hammer or mallet to drive the knife. On the rear portion of the frame B is a wedge, E, that projects considerably below

the saw A, and has a head, *c*, formed on it, which is hammered to drive the wedge.

The instrument is used in the following manner: The handle D is first taken hold of in the usual way, and the stock or limb of the tree to be grafted is sawed off. The instrument is then taken hold of by the handle *b*, and the edge of the knife C placed on the end of the limb just sawed off, and the head *c* is struck with a hammer or mallet so as to cut the cleft for the reception of the grafts. When the cleft is finished the instrument is reversed, and the wedge is driven by striking its head *c* into the cleft to keep it open while the grafts are being inserted.

The great advantage gained by this instrument is that all of the tools necessary for grafting being combined together, there is no danger of losing one of them, and they can be carried about from tree to tree much more easily than when separate. The instrument is also very handy for pruning and trimming stocks or limbs preparatory to grafting.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combined tool, consisting of a saw, knife, and wedge, all combined and arranged substantially as specified.

JOHN MADDY.

Witnesses:

AMOS KENNARD,
P. A. GANLIN.

(63)