

A. C. MARTIN.

Improvement in Handles for Crosscut Saws.

No. 125,899. Patented April 23, 1872.

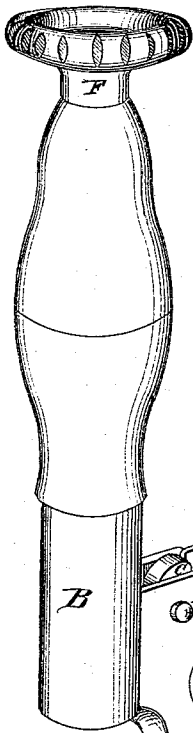


Fig. 1

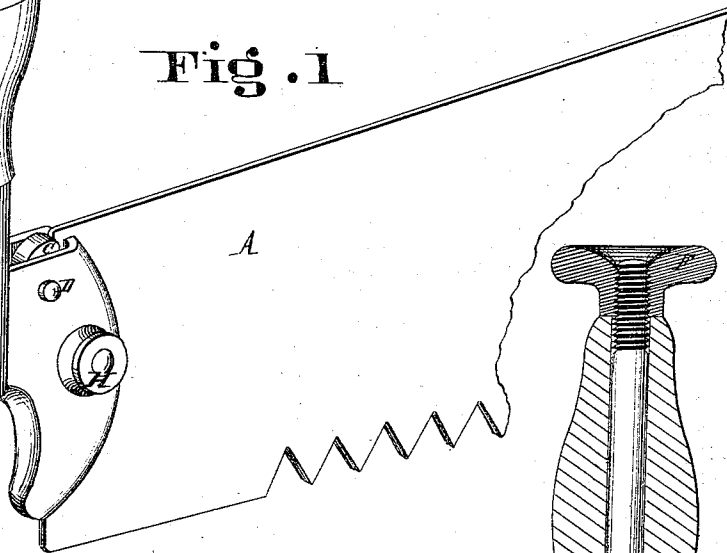
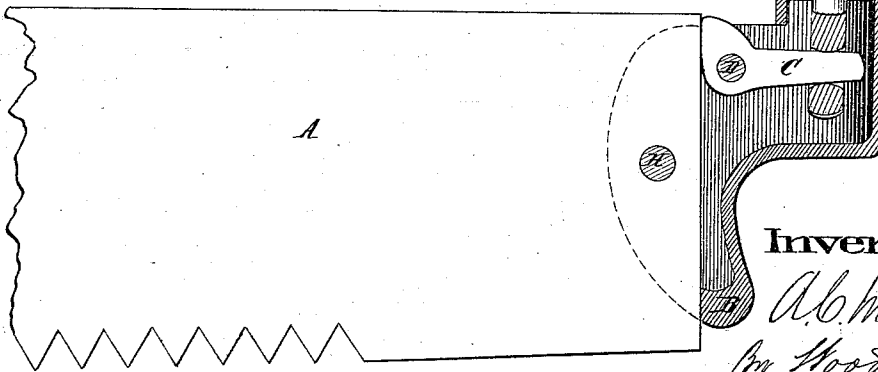


Fig. 2

Attest

John Bode.
Marcus & Hunt



Inventor

A. C. Martin.
By Wood & Boyd
Attorneys.

UNITED STATES PATENT OFFICE.

ALEXANDER C. MARTIN, OF CINCINNATI, OHIO.

IMPROVEMENT IN HANDLES FOR CROSS-CUT SAWS.

Specification forming part of Letters Patent No. 125,899, dated April 23, 1872.

I, ALEXANDER C. MARTIN, of Cincinnati, Hamilton county, Ohio, have invented certain Improvements in Handles for Cross-Cut Saws, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to the arrangement of an eccentric, a rod, and a nut, in combination with the handle of a cross-cut saw, for attaching the handle to the saw, whereby a cheap, secure and convenient handle is produced, and to the arrangement of a drop-pin which acts as a fulcrum in attaching the handle to the saw.

Description of the Accompanying Drawing.

Figure 1 is a perspective view of the handle of a saw embodying my invention, attached to the end of a saw. Fig. 2 is a longitudinal section through the center of the same.

General Description.

A represents the blade of an ordinary cross-cut saw. B is the metallic portion of the handle, and is made broad and flat at its lower end, with a slit for the end of the saw to enter. This slit should be just sufficiently wide to allow the saw to enter freely, so that its jaws or cheeks may rest against and support the blade when in operation. Upon the upper end of B is a ferrule to receive the wooden portion of the handle. C is an eccentric or lever, pivoted at D, the flat, short, or outer end of which rests against the end of the saw-blade, and the inner or longer end passes through an eye in the lower end of the rod E, which passes through the center of the handle, and has a cap or nut, F, upon its upper end. H is a loose pin, which serves to keep the handle in place before being screwed on tight, and, in the act of fastening, serves as a fulcrum. Any loose pin will answer the purpose, but as loose pins are liable to get lost, I prefer to so incase it that it can not get separated from the handle. I therefore make a concave on one cheek deep enough to allow the pin to drop free of the saw-blade without dropping out. A spring may also be used to keep the pin in place.

The operation of the device is as follows: The saw-blade is to be provided with a hole for the pin H. The end of the saw-blade is placed in the slit of the handle and moved till the pin H drops into the hole in the blade. The nut F is then tightened, which draws the rod E up and with it the inner end of the lever C, which presses its other end against the end of the saw, which moves round the pin H till the lower corner of the end of the saw presses against the lower end of the handle, when the whole will be found to be firmly and securely attached. When it is desired to remove the handle, unloosen the nut F, turn the saw upon its side, and allow the pin H to drop out, when the saw may be removed.

The whole is very simple and durable, and being perfectly smooth and even there is nothing about it to catch and tear the clothes of the operator, who is enabled to hold the handle close to the saw, and thereby exert his power to better advantage. Another advantage in having the rod E pass through the handle is, in adjusting, the wood is screwed tightly into the ferrule, and is therefore always firm in the hands of the operator.

The peculiar arrangement of the devices composing my invention may be variously modified, and still perform the same function as herein described. I have shown what I deem the best form. My invention may be applied to other instruments where handles are desired to be attached, and in other kinds of saws.

Claim.

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

The combination of the metallic holder B, the handle with the screw-rod E, cam-lever C, and pin H, comprising a detachable handle for a saw or other instrument, substantially as herein described.

ALEX. C. MARTIN.

Witnesses:

EDWARD BOYD,
MARCUS A. HUNT.