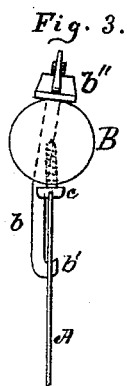
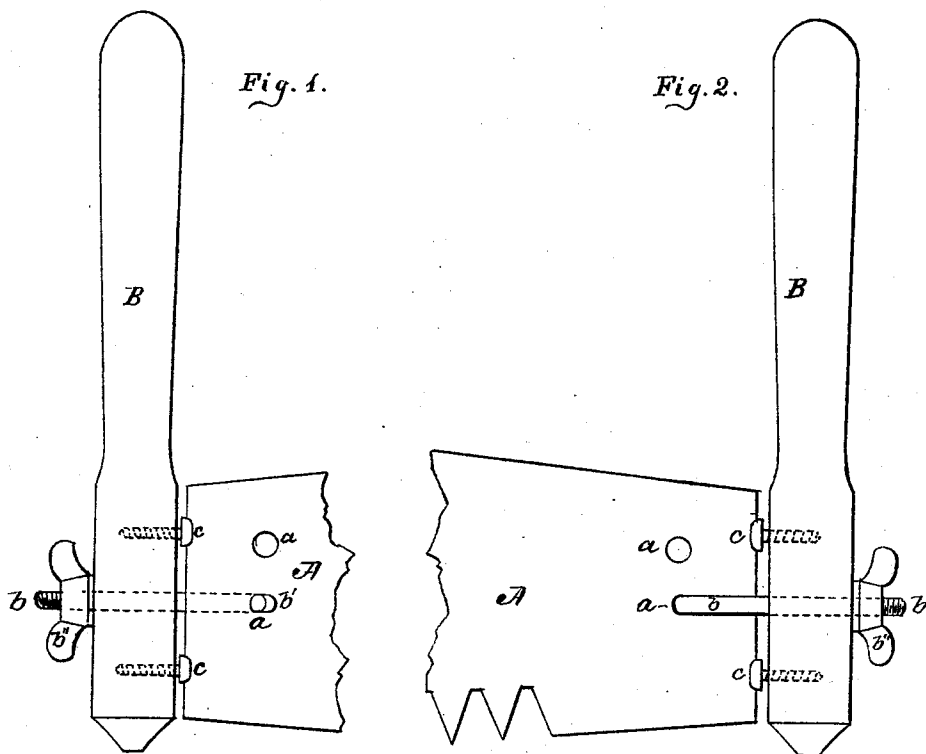


W. CLEMSON.

Improvement in Handles for Cross-Cut Saws.

No. 130,980.

Patented Sep. 3, 1872.



Witnesses:

C. S. Whitman

W. d. Daniels

Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM CLEMSON, OF MIDDLETOWN, NEW YORK.

IMPROVEMENT IN HANDLES FOR CROSS-CUT SAWS.

Specification forming part of Letters Patent No. 130,980, dated September 3, 1872.

I, WILLIAM CLEMSON, of Middletown, in the county of Orange, in the State of New York, have made certain Improvements in Handles for Cross-Cut Saws, of which the following is a specification:

In the drawing, Figure 1 is a side view of the improvement; Fig. 2, the reverse side, and Fig. 3 a cross-section, of the same.

When the blades of cross-cut saws come from the manufacturer the ends are more or less angular or inclined to a right angle of a right line through the saw longitudinally; hence some provision for the cheaply attaching the handle to the saw-blade, and a means of adjusting the handle to be upright or perpendicular with the central longitudinal line through the saw, has to be provided for. The invention, therefore, consists in the means for adjusting the handle to be upright and have it bear against the angular end of the saw, in combination with the means of attaching the handle to the saw, whether the end of the saw may have a greater or less angularity or inclination, as more fully hereinafter set forth.

A represents the section or piece at the end of a saw-blade, and to which the handle is attached and adjusted to suit any angle that the end of the saw may have. *a a* represent the usual holes in the end of the saw for riveting the ordinary thimbles thereon. B is the wooden handle without a metal ferrule. *b* is a screw-hook bolt, having the hook end *b'* to

go through one of the holes *a* in the saw-plate, and the screw-tang end through the handle B, and a thumb-nut, *b''*, to turn on the screw-bolt *b*, and thus firmly attach the handle to the saw. *c c* are simple wood screws turned into the handle, as seen in the drawing, so that the end of the saw will enter into the nick or groove in the head of the screw, where it is held to prevent any lateral play. The adjusting-screws *c c* can be turned into the handle B, more or less, as the end of the saw-blade A may be more or less angular, and thereby adjust the handle to be in the correct position for operating the saw.

This construction forms a cheap and simple mode of attaching and adjusting the handles to cross-cut saws—one that is easily understood by any person that may use such saws; is durable, and not liable to get out of order.

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

The combination of the handle B, adjusting-screws *c c*, hook screw-bolt *b*, and saw-blade A, when the end of the saw-blade enters into the nicks or grooves of the adjusting-screws, and all constructed to operate in the manner substantially as described.

WM. CLEMSON.

Witnesses:

CHAS. I. HUMPHREY,
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