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PATENTED JUN 14 1870

E. ANDREWS'
HANDLE FOR CROSS-CUT SAWS.

Figure 1 -

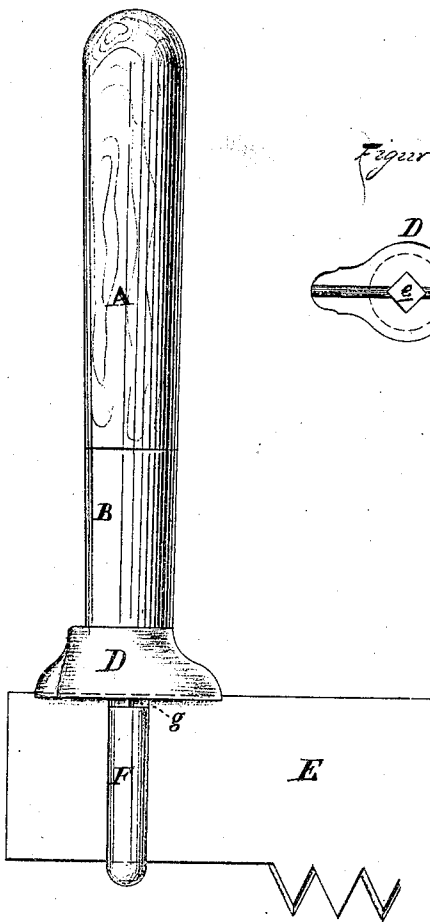


Figure 2 -

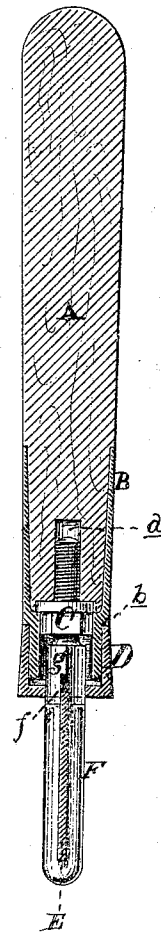
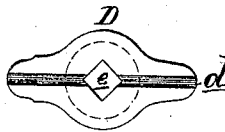


Figure 3 -



ATTEST:

James Thierry
H. F. Everts.

INVENTOR:

Emmanuel Andrews
Per Attorney
Wm. Sprague

United States Patent Office.

EMANUEL ANDREWS, OF WILLIAMSPORT, PENNSYLVANIA.

Letters Patent No. 104,095, dated June 14, 1870.

IMPROVEMENT IN HANDLE FOR CROSS-CUT SAWS.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, EMANUEL ANDREWS, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented a new and useful Improvement in Handles for Cross-cut Saws; and I do hereby declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is an elevation of my handle, as when attached to a cross-cut saw.

Figure 2 is vertical transverse section of the same: and

Figure 3 is a bottom plan of the winged sleeve.

Similar letters of reference indicate corresponding parts in each figure.

The nature of this invention relates to an improved construction of handles for cross-cut saws, and consists in a novel ferule, hexagonal in its upper inner portion, where it is provided with a hexagonal nut, and cylindrical in its lower inner part, where a wooden handle is inserted.

In the drawing—

A represents a handle, in whose lower end is bored a recess, *d*.

B is metallic ferule, slipped over the lower end of the handle, projecting its tip *b* therefrom; the interior of the tip *b* is hexagonal in form, and in its base, between it and the end of the handle is inserted a nut, C, which

is prevented from being drawn out by tapering it to correspond with the interior walls of the tip, or it may be provided with a flange, as shown in fig. 2.

D is a winged sleeve which fits loosely on the tip of the ferule, and is provided with a longitudinal groove, *d*, on its lower side, which embraces the back of the saw-blade E.

F is a tang having a slot, *f*, in its lower part to receive the saw-blade. The upper part of the tang is threaded, and engages with the nut C, while its central portion is squared, as shown at *g*, fig. 2, and passes through the square opening *e*, fig. 3, of the sleeve.

The handle is secured to the saw by partially unscrewing the handle from the tang; the saw is then inserted in the slot *f* of the tang, and the winged sleeve D dropped down, so that its groove *d* will embrace the edge of the saw, when, by screwing up the handle, the tang is drawn in toward the nut, carrying the saw with it, firmly binding the whole together; the handle is as readily detached, when necessary.

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

The ferule B, hexagonal in its upper inner portion, where it is provided with a hexagonal nut, C, and cylindrical in its lower inner part, when constructed as described and shown, and for the purpose set forth.

EMANUEL ANDREWS.

Witnesses:

H. S. SPRAGUE,
JAS. I. DAY.