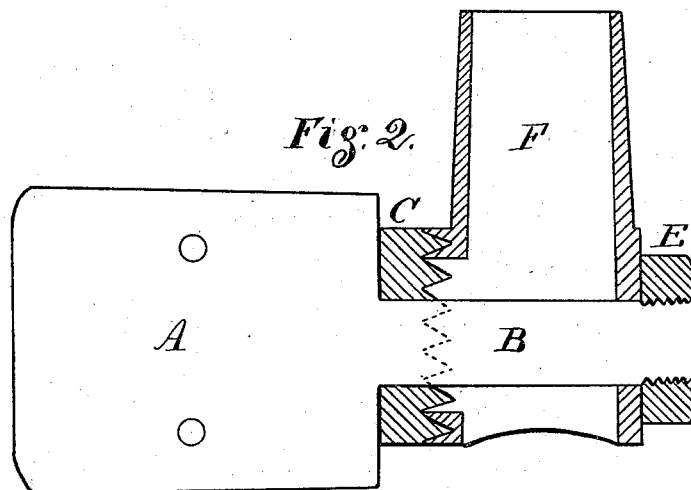
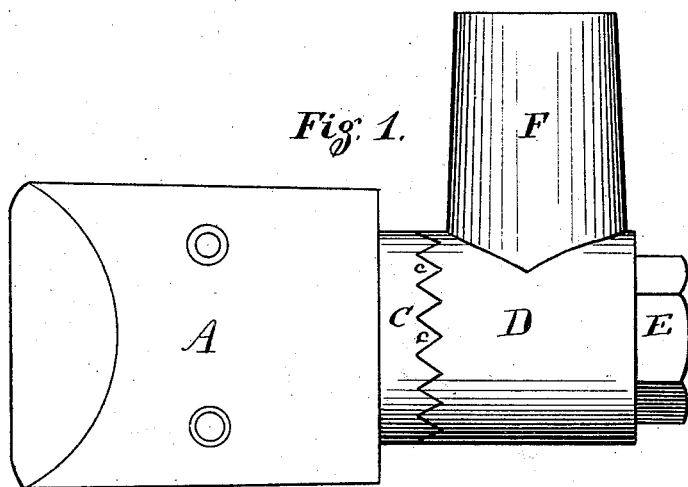


C. M. TANNER.  
Cross-Cut Saw-Handles.

No. 168,590.

Patented Oct. 11, 1875.



*Witnesses.*

*B. S. DeFonds*  
*H. B. Tibbitts*

*Inventor.*

*Charles M. Tanner*  
*Per Geo. W. Gibbette, Atty.*

# UNITED STATES PATENT OFFICE.

CHARLES M. TANNER, OF DEFIANCE, OHIO.

## IMPROVEMENT IN CROSSCUT-SAW HANDLES.

Specification forming part of Letters Patent No. **168,590**, dated October 11, 1875; application filed August 25, 1875.

*To all whom it may concern:*

Be it known that I, CHARLES M. TANNER, of Defiance, in the county of Defiance and State of Ohio, have invented an Improvement in Crosscut-Saw Handles, of which the following is a specification:

This invention relates to a means of attaching handles to saws in such a manner that the handle may be adjusted readily at any desired angle by simply loosening the nut. It consists of two plates riveted to the end of the saw, each having half of the shank, on which the handle is secured by means of a sleeve having ratchet-teeth, which mesh with like teeth on a collar next to the said plates, said sleeve being held by a nut on the end of the shank. A socket is cast on the said sleeve to receive the handle. The object of this is to enable the handle to be turned, when desired, on the saw, for sawing logs when lying or standing in various positions.

To enable others to fully understand my invention, I proceed to describe the same in detail with the aid of the accompanying drawing, in which—

Figure 1 is a side elevation. Fig. 2 is a longitudinal section.

A A are the said plates, which are riveted,

one on each side of the saw, and each has one-half of a round shank, B. C is a collar fitted onto said shank against the end of the plates, and has a groove in its face, which lies over the end of the saw. Its opposite face has a series of ratchet-teeth, *c c*, on its edge. D is a sleeve placed on the shank, having on one end a series of ratchet-teeth, which mesh with the teeth on the collar. Said sleeve is held on by a nut, E. F is a socket for a wooden handle. I make the number of teeth sixteen or other even number, so that in turning the handle it may be set at a right angle, or other even angle, with the saw-blade.

The mode of turning the handle is by loosening the nut E until the sleeve is freed from the collar, then turning the handle to the angle desired, and again tightening the nut.

Having described my invention, I claim—

The plates A A, having each the half-shank B, the toothed collar C, the toothed sleeve D, having the handle-socket F, and the nut E, all constructed as and for the purpose herein set forth.

CHARLES M. TANNER.

Witnesses:

GEO. W. TIBBITTS,  
ANDREW SQUIRE.