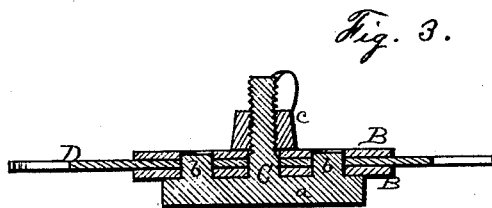
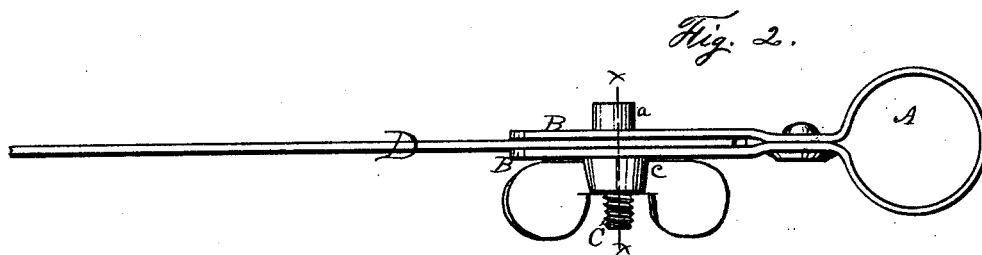
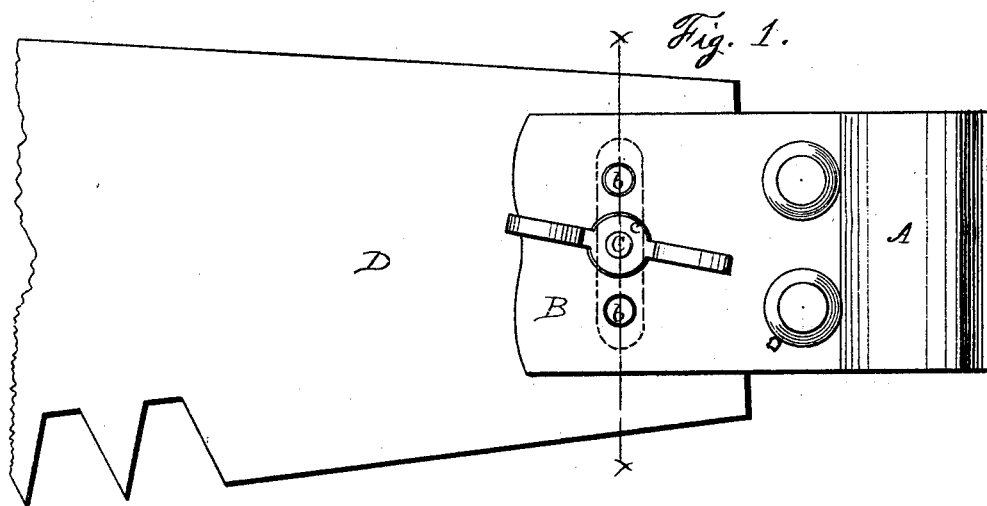


S. W. Valentine,

Cross Cut Saw Handle.

No. 111,792.

Patented Feb. 14. 1891.



Witnesses,
G. A. Shepard,
Nellie Shepard

Inventor,
Samuel W. Valentine
By *James Shepard Atty.*

United States Patent Office.

SAMUEL W. VALENTINE, OF BRISTOL, CONNECTICUT, ASSIGNOR TO PORTER SAW COMPANY, OF SAME PLACE.

Letters Patent No. 111,792, dated February 14, 1871.

IMPROVEMENT IN METHODS OF ATTACHING HANDLES TO SAWS.

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

I, SAMUEL W. VALENTINE, of Bristol, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement in Attaching Handles to Crosscut-Saws, of which the following is a specification.

My invention consists in the employment of a T-bolt provided with two short pins, which bolt and pins pass through corresponding holes in the saw-plate and the flanges of the ordinary handle-band, and are secured by means of a thumb-nut, as hereinafter more fully described, the whole combined and operating together.

In the accompanying drawing—

Figure 1 is a side elevation of an attachment of my invention;

Figure 2, a top view of the same; and

Figure 3, a transverse section of the same on line *x x*.

A designates the ordinary ferrule or band for receiving the wooden handle, and

B B the flanges of the band A.

C is a T-bolt, the head *a* of which bolt is provided with pins *b b*. Said pins are a little shorter than the

combined thickness of the flanges B B and saw-plate D, and therefore do not project through the flanges B B far enough to interfere with the operation of the thumb-nut *c*.

The saw-plate D and flanges B B are each provided with three holes to correspond in shape and size with the body of the T-bolt C and the pins *b b*.

By placing the saw-plate D between the flanges B B and inserting the T-bolt C, with its body and pins *b b* in their respective holes, as shown in fig. 3, and securing the same by the thumb-nut *c* or its equivalent, the saw-plate is firmly secured to the flanges B B, and is, if properly fitted, secured substantially as rigid as if secured by three separate rivets.

I claim as my invention—

The combination of the saw-plate D, flanges B B, T-bolt C provided with the pins *b b*, as described, and the nut *c*, the whole combined and operating together substantially as and for the purpose described.

SAML. W. VALENTINE.

Witnesses:

JAMES SHEPARD,

L. A. MUNSON.