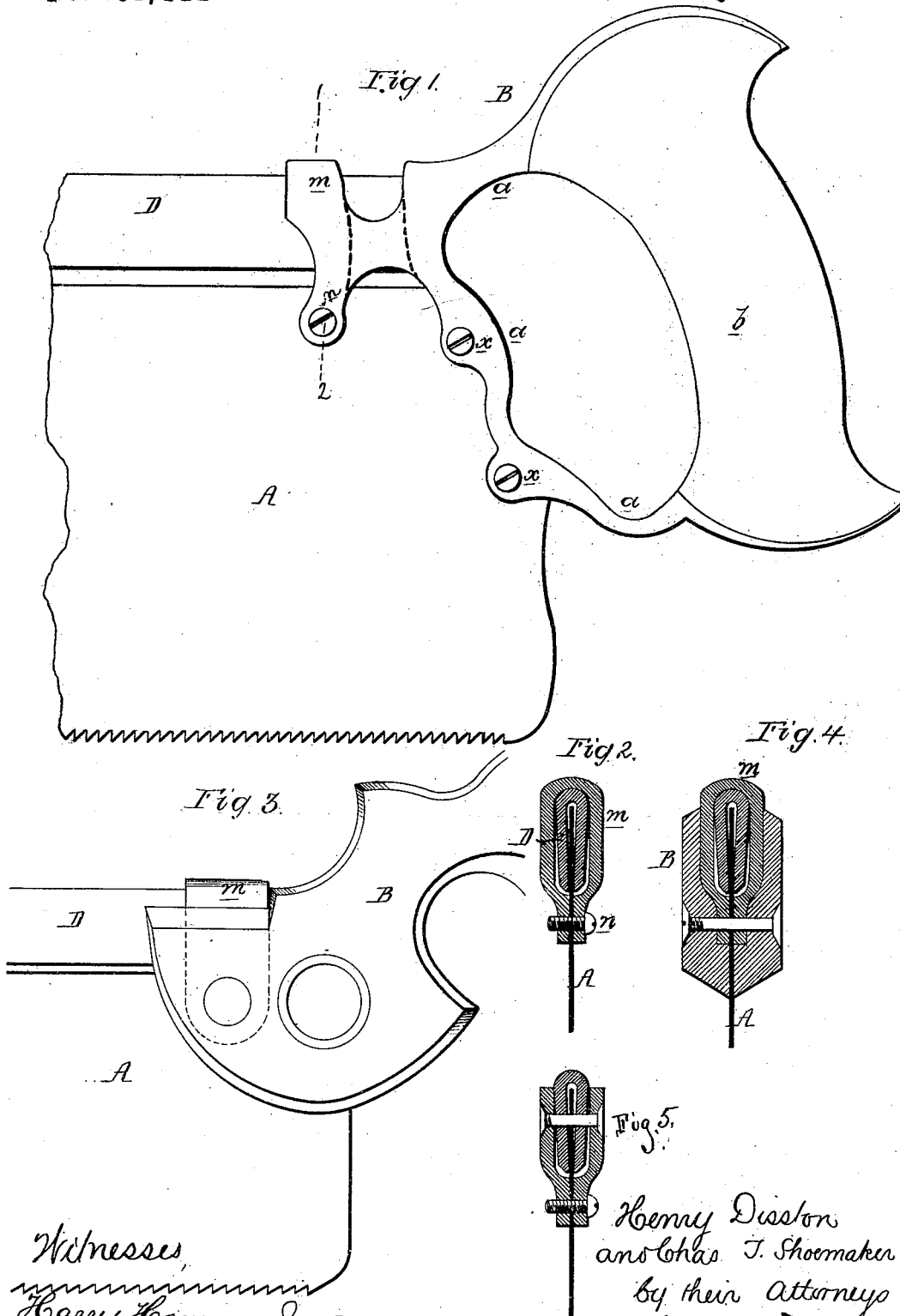


H. DISSTON & C. T. SHOEMAKER.

HAND-SAW.

No. 181,422.

Patented Aug. 22, 1876.



Witnesses  
 Harry Robinson  
 Harry Smith

Henry Disston  
 and Chas. T. Shoemaker  
 by their Attorneys  
 Howson and Son

# UNITED STATES PATENT OFFICE.

HENRY DISSTON AND CHARLES T. SHOEMAKER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNORS TO HENRY DISSTON, HAMILTON DISSTON, AND ALBERT H. DISSTON, OF SAME PLACE.

## IMPROVEMENT IN HANDSAWS.

Specification forming part of Letters Patent No. 181,422, dated August 22, 1876; application filed April 29, 1876.

*To all whom it may concern:*

Be it known that we, HENRY DISSTON and CHARLES T. SHOEMAKER, of Philadelphia, Pennsylvania, have invented certain Improvements in Handsaws, of which the following is a specification:

The main object of our invention is to secure the back of a back-saw firmly to the blade; and this object we attain in the manner which we will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 illustrates our invention as applied to a back-saw having a handle partly of metal and partly of wood; Fig. 2, a transverse section on the line 1 2. Fig. 3 shows our invention applied to a back-saw with the ordinary wooden handle; Fig. 4, a transverse section on the line 3 4, and Fig. 5 a modification of our invention.

A represents the blade of the saw, to which the back D is clamped in the usual manner. A clamp, *m*, embraces this back D and a part of the blade, as best observed in Figs. 2 and 4, this clamp being so secured by a screw, *n*, that the blade, back, and handle are rigidly connected together.

When this clamp *m* is applied to the ordinary back-saw, as seen in Fig. 3, the wooden handle may be recessed to receive the said clamp; or, if desired, the latter may be secured to the blade and back independently of the handle.

In Figs. 1 and 2, the handle B is composed partly of the cast-iron frame *a*, and partly of the wooden gripe *b*, secured to the frame, which is slotted to receive the blade, the latter being secured by screws *x*. In applying the clamp *m* to the saw in this instance, we prefer, for purpose of greater security, to make the clamp *m* a continuation of the frame *a*, as shown by full lines, Fig. 1; but it may be formed of a separate piece, as shown by dotted lines.

Instead of making the clamp of one bent piece of metal, it may be made of two pieces riveted to the back and blade, as shown in Fig. 5.

We claim as our invention—

1. In a back-saw, the combination of the blade A and back B with clamp *m*, by which the said back and blade are secured together, substantially as described.

2. The combination of the blade, back, and handle of a handsaw with a clamp, *m*, forming part of the handle, substantially as shown and described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

HENRY DISSTON.  
C. T. SHOEMAKER.

Witnesses:

A. H. SHOEMAKER,  
GEO. S. GANDY.