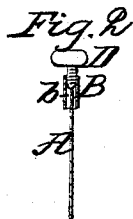
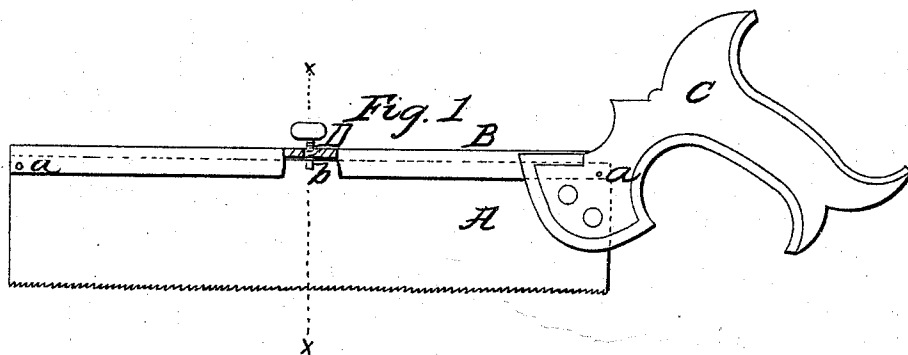


E. H. Roe,
Hand Saw,
N^o 66,174, Patented June 25, 1867.



Witnesses:
Thos. Tuscher
Wm. Swain

Inventor:
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United States Patent Office.

EDWARD H. ROE, OF JERSEY CITY, NEW JERSEY.

Letters Patent No. 66,174, dated June 25, 1867.

IMPROVEMENT IN HAND-SAWS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWARD H. ROE, of Jersey City, in the county of Hudson, and State of New Jersey, have invented a new and useful Improvement in Back-Saws, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

This invention relates to a new and useful improvement in what are commonly termed by joiners "back-saws," and has for its object the straining, by a simple means, of the saw-plate whenever the same becomes bent, or "kinked," as it is technically termed, so that it may be brought in a plane, and have a straight cutting edge, or one free from lateral bends or kinks. These "back-saws" have their plates as they are used for fine work, the cutting of tenons, etc., and the plates are consequently very liable to become bent or "kinked," so much so as to frequently render it difficult to use them and make a smooth "kerf" or cut. In the accompanying sheet of drawings—

Figure 1 is a side view of my invention partly in section.

Figure 2, a transverse section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

A represents the plate of a "back-saw;" B the back, and C the handle thereof. These parts are constructed in the usual manner. The back B is secured to the saw-plate A by two rivets *a a*, one passing through the front and the other through the rear end of the back, as shown in fig. 1. Through the centre of the back B a screw, D, passes, and bears against the centre of the upper edge of the saw-plate, or against a small rod or pin, *b*, fitted thereon, (see both figures.)

In case of the saw-plate becoming bent or "kinked," it may be brought in a plane, and so as to have a straight cutting edge, or one free from lateral bends or kinks, by screwing downward or inward the screw D, thereby depressing the centre of the upper edge of the plate, which, in consequence of being secured to the back at its front and rear ends only, will cause the plate to be strained, and all bends and "kinks" taken out of it. In lieu of a screw, a key or wedge may be used; but a screw would be preferable.

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

The application of a screw or its equivalent to a "back-saw," substantially in the manner as and for the purpose herein set forth.

EDWARD H. ROE.

Witnesses:

WM. F. McNAMARA,
ALEX. F. ROBERTS.