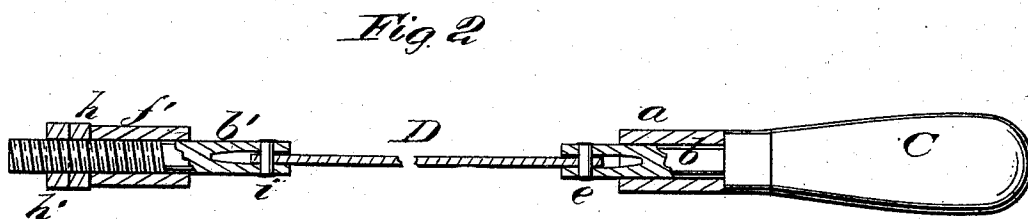
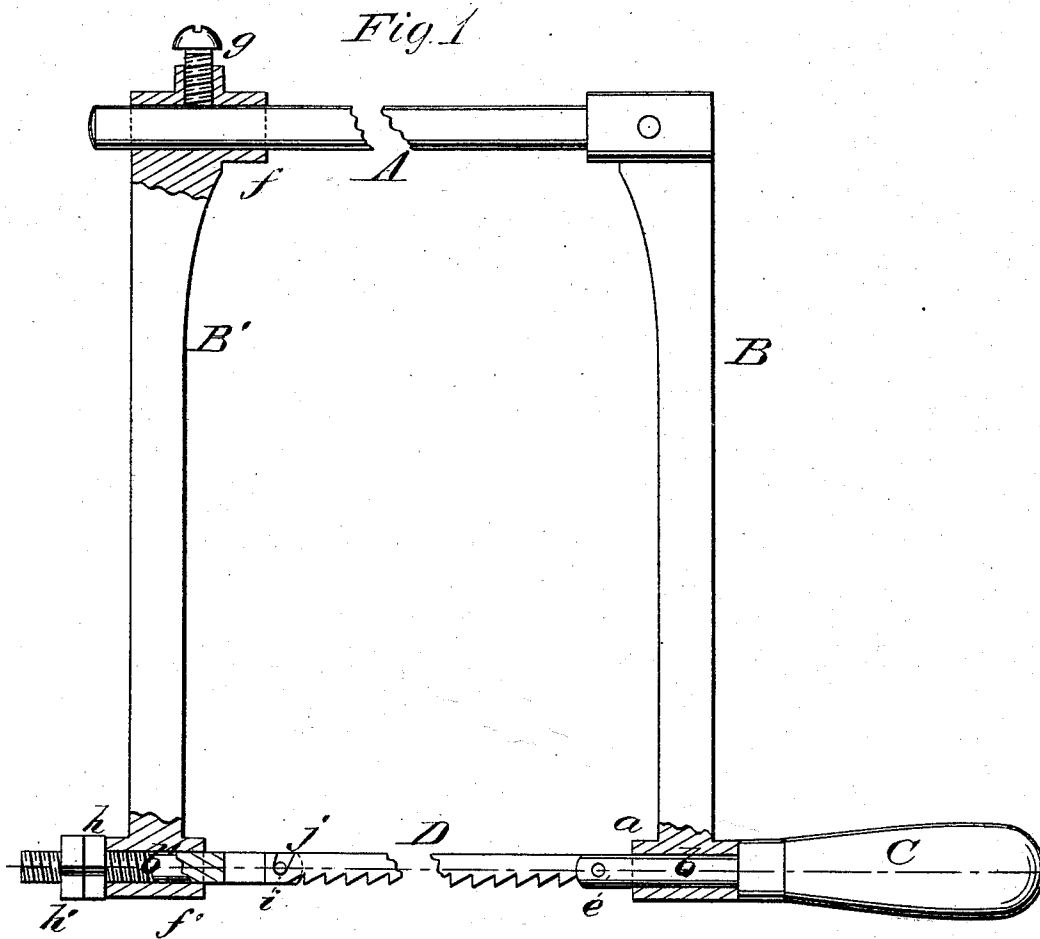


W. H. BRIGGS.

SCROLL-SAW.

No. 170,048.

Patented Nov. 16, 1875.



WITNESSES

Mary E. Wiley.
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UNITED STATES PATENT OFFICE.

WILLIAM H. BRIGGS, OF WOONSOCKET, RHODE ISLAND.

IMPROVEMENT IN SCROLL-SAWS.

Specification forming part of Letters Patent No. 170,048, dated November 16, 1875; application filed December 5, 1874.

To all whom it may concern:

Be it known that I, WILLIAM H. BRIGGS, of Woonsocket, in the county of Providence and State of Rhode Island, have invented a new and valuable Improvement in Scroll-Saws; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my scroll-saw in parts broken away, and Fig. 2 is a longitudinal sectional view of the same.

This invention has relation to handsaws which are especially designed for sawing scroll-work; and the nature of my invention consists in a spring-frame, having one of its limbs adjustable on the saw-back, in combination with rotating stems, to which the saw is attached, a hooking attachment for the saw, and a straining-nut on one of said stems, whereby great facility of adjustment and use of the saw is obtained.

In the accompanying drawings, A designates the back of the saw-frame, which is a round rod of metal of suitable length, having its upper side flattened. To one end of this bar a limb, B, is rigidly secured, having a tube, *a*, on one end, in which a stem, *b*, is free to turn, on which stem a handle, C, is rigidly secured. The stem *b* has a slot in one end, and a perforation through it at right angles to the slot. It is to this end of stem *b* that one end of the saw D is secured by a pin, *e*. B' designates another limb of the saw, which has tubes *f f'* on its extremities, one of which, *f*, receives through it one end of the back A, and is rigidly, but removably, secured to this rod by means of a set-screw, *g*. The tube *f'* receives through it a stem, *b'*, which, like stem *b*, is free to turn about its axis, and which is screw-threaded to receive a straining-nut, *h*, and a jam-nut, *h'*. This stem *b'* is slotted, and has a pin, *i*, permanently fixed to it at right angles to the slot, and passing through the latter. That end of the saw D which is attached to the stem *b'* has an oblique slot, *j*, in it, forming a kind of hook, which receives the pin *i*, and thus attaches this end of the saw to the said stem.

Among many advantages attending my improved saw I will state, first, that the limb B', with its stem *b'*, can be readily adjusted for saw-blades of different lengths by simply loosening the set-screw *g*. Second, the stem *b'* is provided with a nut which will allow the saw to be strained and held under any desired degree of tension, whether the saw be a long one or a short one. Third, in combination with the above advantages named, the limbs B B' and the back A are sufficiently elastic to allow, by a slight compression of the two limbs B B', the slotted end of the saw to be detached from its pin *i*.

It will be observed that, incidental to my construction of saw-frame, the saw can be turned independently of the frame while making scroll-work.

I am aware that a saw-frame provided with vertical adjustable arms, pivoted to an arch connecting-piece, and provided with adjustable screws, as shown in Letters Patent of W. Cotter, dated October 15, 1872, has heretofore been employed, and I therefore disclaim such invention. I am also aware that saw-frames have heretofore been employed which are longitudinally adjustable for saws of different lengths, and I therefore lay no claim, broadly, to such adjustable saw-frames.

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

The saw-frame herein described, consisting of the arm B, having the arm A and tube *a* for the reception of the stem *b*, arm B', provided with tubes *f f'*, stem *b'*, and adjusting-screw *g*, in combination with the saw D, having a perforation at one end, and an oblique slot at the other end for the reception of pins, whereby the saw-frame may be adjusted to saws of different lengths, and at the same time may be readily removed, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM H. BRIGGS.

Witnesses:

FRANCIS L. O'REILLY,
GEORGE A. WILBUR.