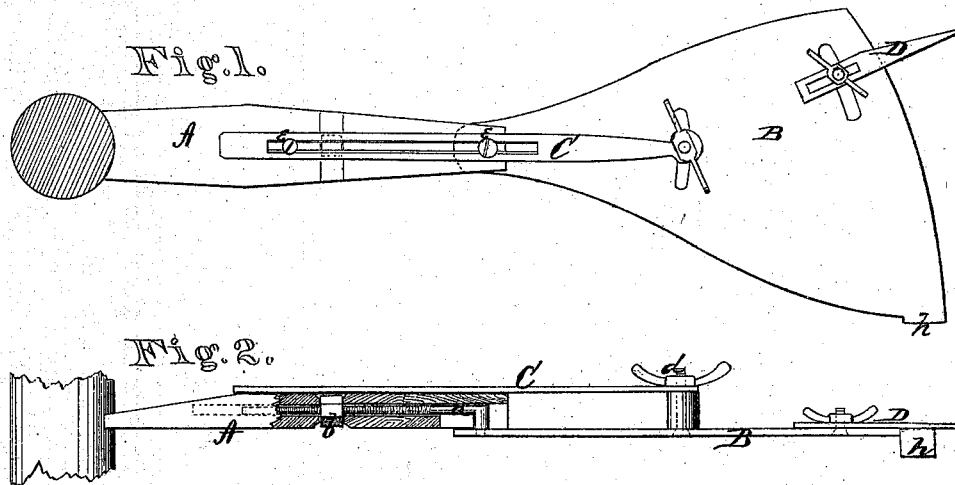


J. H. Stevenson,
Saw Jointer.
No. 112,296. Patented Feb. 28, 1871.



Witnesses.
Chas. Kimball,
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United States Patent Office.

JOHN H. STEVENSON, OF BIRMINGHAM, OHIO.

Letters Patent No. 112,296, dated February 28, 1871.

IMPROVEMENT IN SAW-JOINTERS FOR CIRCULAR-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, JOHN H. STEVENSON, of Birmingham, in the county of Erie and State of Ohio, have invented a new and valuable Improvement in Saw-Jointer for Circular-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 drawing 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 my saw-jointer, taken from the side; and—

Figure 2 is an edge view of the same, part of the main stem or handle being in longitudinal section.

The nature of my invention consists in the construction and arrangement of an adjustable "saw-jointer," which can be used on circular-saws of any size, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation.

A represents the main stem or handle of my saw-jointer, the lower end of which is concave, to fit on the mandrel of the saw on the inside, that is, the side next to the log.

From the outer end of the stem A is inserted a screw-rod, *a*, which runs longitudinally through the stem, and passes through a nut, *b*, inserted in a mortise made at about the center of the stem.

By turning the nut *b* it will readily be seen that the screw-rod *a* can be made to extend beyond the stem, or be drawn into the stem.

The outer end of the screw-rod *a* is bent at right angles, as shown in fig. 2, and projects through a slot cut in the side of the stem A.

On this end of the rod *a* is pivoted the segmental blade B, of the peculiar formation shown in fig. 1.

This blade is held firmly by means of a bolt, *d*, (and nut,) which passes through a curved slot in the center of the blade, and attaches to the outer end of a brace, C.

The brace C passes downward along the opposite side of the stem A, to which it is secured by means

of two screws, *e e*, passing through a longitudinal slot in the brace into the stem.

By this means the blade B can not only be moved up and down, but may also be turned on its pivot and be firmly held in any position desired.

Upon the outer point of the blade B is a projecting lip, *h*, which, when the jointer is placed in position on the saw, comes against the point of the tooth.

The tooth is then filed down to the top of said lip, and also to the convex edge of the blade back of the lip, which will give uniform scroll to the top of every tooth from point to base.

By turning the plate B on its pivot, the scroll may be changed to suit saws of different sizes.

There is also a slotted bar, D, attached to the plate B, by means of a bolt passing through a slot in the plate, which bar can be adjusted in any desired position to protect the adjoining tooth from the file.

This gauge may be applied in a perpendicular position, or in any manner suitable to the operator.

Having thus fully described my invention,

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

1. The segmental blade B, provided with a lip, *h*, and capable of twofold adjustment, one upon its pivot, and the other out and in from the main stem, substantially as and for the purposes herein set forth.

2. The arrangement within the main stem A of the bent screw-rod *a* and nut *b*, for the purpose of adjusting the blade B, substantially as herein set forth.

3. In combination with the stem A and blade B, the slotted brace C, constructed and arranged substantially as and for the purposes herein set forth.

4. The combination of the stem A, screw-rod *a*, nut *b*, blade B, lip *h*, brace C, and bar D, all constructed and arranged to operate substantially as and for the purposes herein set forth.

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

JOHN H. STEVENSON.

Witnesses:

O. F. FULLER,
JAMES HALL.