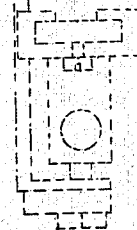
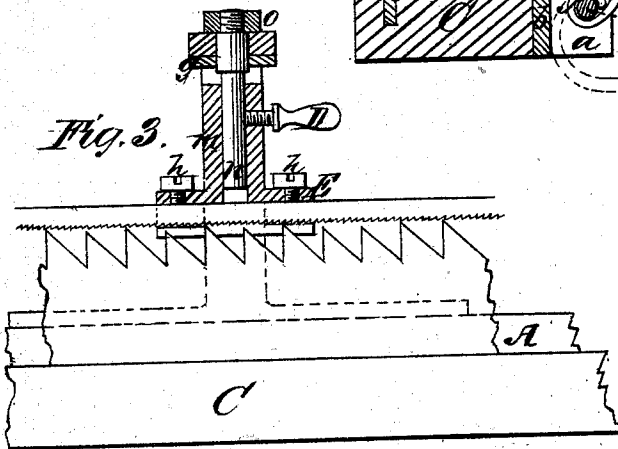
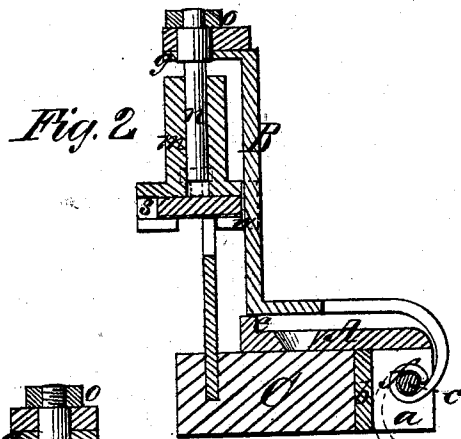
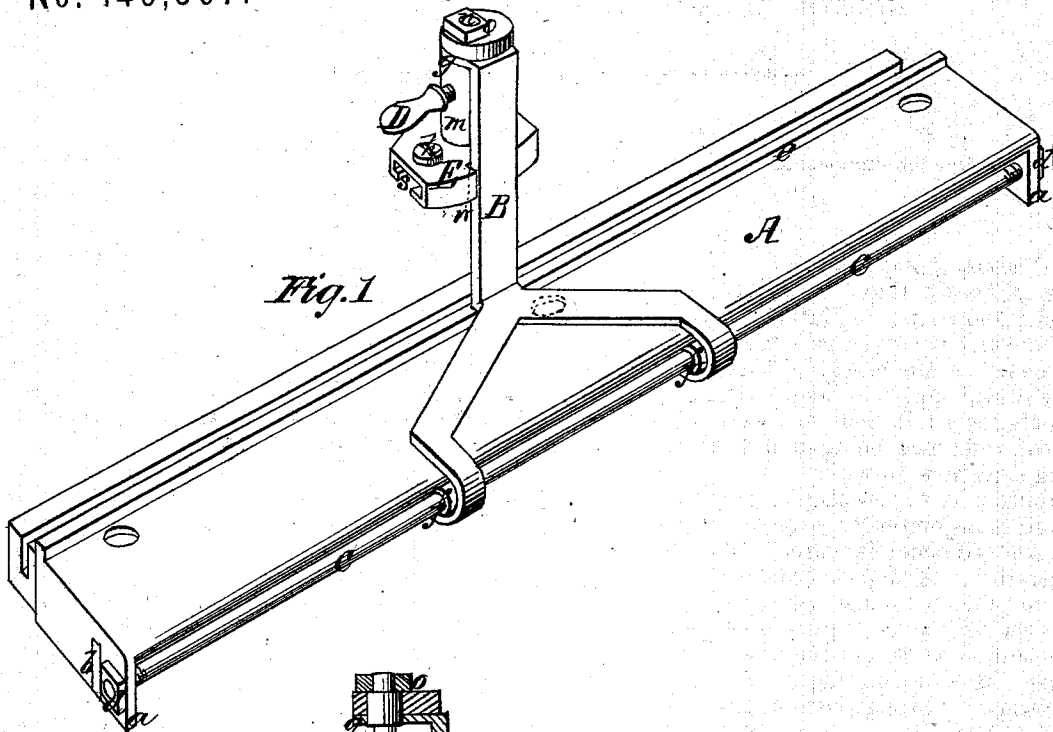


H. BARRON.
Saw-Jointers.

No. 146,567.

Patented Jan. 20, 1874.



Witnesses:
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Inventor:
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UNITED STATES PATENT OFFICE.

HORTON BARRON, OF EAU CLAIRE, WISCONSIN.

IMPROVEMENT IN SAW-JOINTERS.

Specification forming part of Letters Patent No. **146,567**, dated January 20, 1874; application filed November 7, 1873.

To all whom it may concern:

Be it known that I, HORTON BARRON, of the city and county of Eau Claire and State of Wisconsin, have invented a new and useful Improvement in Machines for Jointing Straight-Edge Saws; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved saw-jointer as attached to a bench. The grooved bench is merely shown by way of illustration. A suitable saw-clamping bench will in practice be used. Fig. 2 is a vertical cross-section of the saw-jointer. Fig. 3 is a longitudinal section of the file-holder and portion of the saw-clamping bench, a saw being represented in the groove of the bench under the file.

My invention relates to a machine or implement for bringing all of the teeth of a saw (gang-saws or any other straight-edge saw) to a uniform length. This operation is usually effected by passing a flat file over the toothed edge of the saw-blade while the blade is held horizontal between clamping-jaws of a vise or bench. My improvement consists, first, in a file-holder attached to a swinging slide, which has an upright standard carrying an overhanging pendent post, on which the holder for a flat file is adjustably fitted, whereby the file can be moved over the toothed edge of a saw-blade in contact with the same in one direction, and swung up and over out of contact with the saw-blade in going back for a new operation upon the blade; second, in providing the file-holder bed with two narrow guides, and having one of these guides serve as the hinge upon which the file-holder swings as well as slides, and the other as a rest for the standard of the file-holder while it is being moved over and in contact with the toothed edge of the saw; third, in the bed-piece of the file-holder, constructed to serve as a support for the hinging-guide of the file-holder, and to fit upon the edge of the saw-clamping bench, and bear with its two ends, its back, and top upon the bench, and thus, when confined by screws passed down through its top, not only afford a firm, steady support for the file-holder during its operation, but also re-

lieve the holding-screws from strain, this construction being very simple, convenient, and cheap; fourth, in the file-holder grooved and shouldered, and furnished with a tubular stem, and also with screws for confining the file and adjusting its height, in combination with the pendent post, swinging standard, and the bed-piece, as will be hereinafter described.

A is the bed-piece, made of metal, say about five feet long and six inches wide. At each end there is a flange, *a*, turned down at right angles. These flanges are tied together by a narrow strip, *b*, of metal. This strip forms a vertical rib between the front and rear edges of the bed-piece, and is of the same depth as the flanges. Through the flanges, under the bed-piece, and in rear of the strip, a circular metal rod, *c*, is passed, and confined in place by nuts *d d*, screwed on its ends outside the flanges. At the front edge of the bed-piece, on top, a narrow horizontal rib, *e*, is turned up, as shown. The rod *c* serves as a hinging axis for the file-holder, and also as a guide thereto. The rib *e* serves as a guide and rest for the standard of the file-holder. The rib and flanges strengthen the bed-piece, and also serve to assist the screws which confine it upon the edge of the clamping-bench in holding it in position. B is the standard of the file-holder, resting loosely on the rib *e* of the bed-piece. It has a horizontal bifurcated base, which terminates in two hinging-eyes, *f f*, and hinges thereby to the rod *c*, as shown. It also has a horizontal bracket-extension, *g*, at its upper end, which overhangs the clamping-groove of the saw-clamping bench or vise C. Through this bracket a vertical post, *n*, is passed, and confined by a nut, *o*, on its upper end, so as to be pendent from the bracket *g*. On this post the file-holder is confined by means of the set-screw D, and can be set up or down to accommodate narrow or broad saw-blades. The file-holder E has a groove, *s*, cut longitudinally through it on its under side. This groove is in the form of a T, and, therefore, the file-holder is open at the bottom, and has two side shoulders or supports for the file to rest upon. The open portion exposes the file to the teeth of the saw under it when the holder is adjusted to bring the file down upon the teeth or to cause the teeth

to pass into the lower narrow portion of the groove. *h h* are set-screws for confining the file in the groove of the holder. *m* is a tubular sleeve or extension from the top of the holder, which fits around the pendent post, and is confined to the post at any point desired by the set-screw *D*, as shown. *w* is a groove in the back of the file-holder. It receives the standard, and thus the holder is guided by it, as shown.

To use the jointing machine or implement, it is adjusted to the edge of a suitable clamping-bench over a saw-blade clamped in the same, and the sliding post is swung over, so as to bring the file from the position shown in dotted lines in Fig. 2 down upon the saw-teeth, and then, with the file-holder, is moved from one end of the saw to the other, and then swung back and slid to the starting-point, and again swung over in contact with the teeth and moved forward. This is done as many times as necessary, and as the operation proceeds the holder is let down, so as to maintain the contact of the file with the saw-blade.

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

1. In a saw-jointer, the combination of the bed-piece, affording two guides, *c c*, the vertically-adjustable file-holder *E*, and the swinging and sliding standard, substantially as and for the purpose set forth.

2. The file-holder *E*, constructed as described, in combination with the swinging slide, consisting of a standard, *B*, with hinging-eyes *f f*, and pendent post *n*, as described.

3. The bed-piece of the file-holder *E*, constructed with the guides *c c*, flanges *a a*, and stay-strip *b*, as set forth.

4. The file-holder *E*, with the T-shaped groove *s*, tubular extension *m*, and screws *D h*, in combination with the pendent post *n*, standard *B*, hinging-eyes *f f*, and the bed-piece *A c c*, as set forth.

HORTON BARRON.

Witnesses:

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