E. GOWDY.

Saw-Jointers.

No. 147,631. Patented Feb. 17, 1874.

Fig. 1

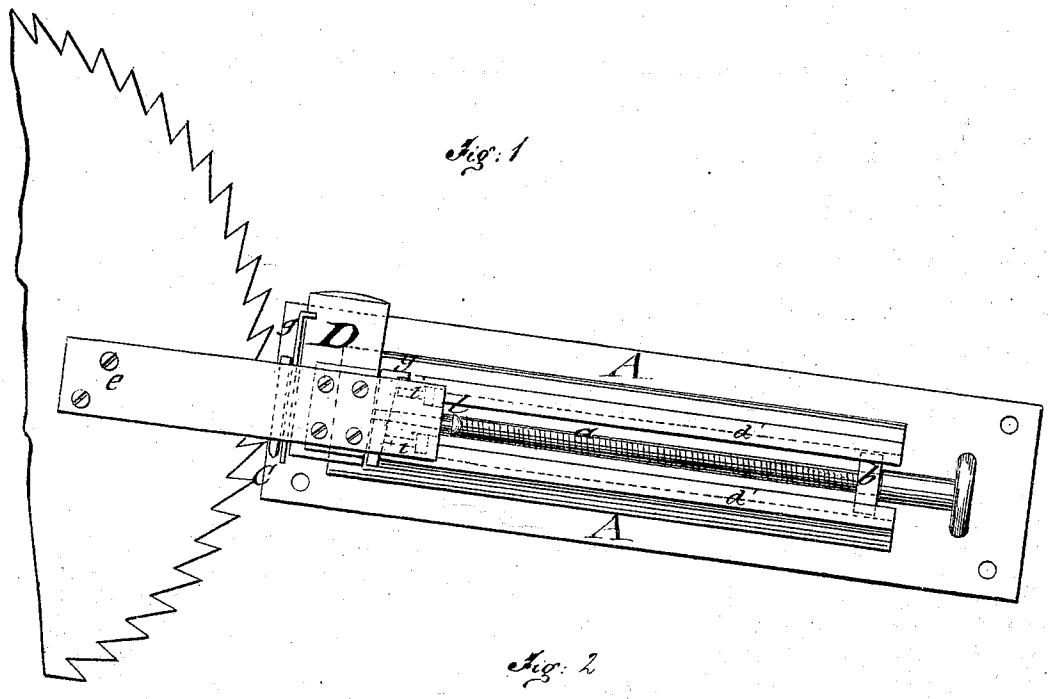


Fig. 2

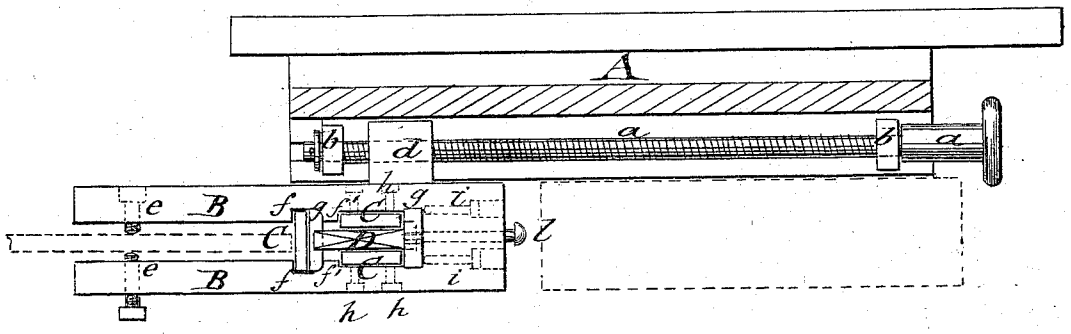
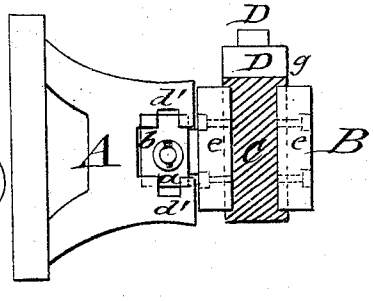


Fig. 3.



WITNESSES:

Chas. Nida.

D. Sedgwick

INVENTOR:

E. Gowdy

BY Munn & Co

ATTORNEYS.

A.M. PHOTO-LITHOGRAPHIC Co. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

EDWIN GOWDY, OF PETTISVILLE, OHIO.

IMPROVEMENT IN SAW-JOINTERS.

Specification forming part of Letters Patent No. **147,631**, dated February 17, 1874; application filed December 6, 1873.

To all whom it may concern:

Be it known that I, EDWIN GOWDY, of Pettisville, in the county of Fulton and State of Ohio, have invented a new and Improved Machine for Dressing Saws, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side view of my improved machine for dressing saws, as applied to a circular saw. Fig. 2 is a sectional plan view, and Fig. 3 is an end view, of the same.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide for the use of sawyers an improved machine for dressing and truing the teeth of circular and other saws, by which the operation is accomplished in a rapid and accurate manner. The invention will first be fully described, and then pointed out in the claim.

In the drawing, A represents the base or guide piece, which is secured in suitable manner to the saw-frame, so that the file-holding frame or carriage B may be instantly applied for use or withdrawn, as required. The file-holder B is carried backward and forward by a screw, *a*, which turns in bearings *b* of base A, and acts on the socket *d*, applied to the bottom of the file-holder, which socket runs in suitable guide-grooves *d'* of base-piece A. The file-holder B consists of a U-shaped frame, with adjustable screws *e* at the front ends of the parallel legs, which screws project toward the inside for guiding the saw steadily between them. Three files, C, are secured to the inside of the rear part of file-holder B, one being placed vertically to the legs in grooves *f* of the same, the two other files being set in recesses *f'*, parallel to the legs back of cross-file C. The files C are firmly retained in the file-holder B by means of a wedge-shaped key, D, and washers *g*. The parallel files C are adjusted nearer or wider by supporting set-screws *h*, according to the thickness of the saw to be filed. The front file C and rear washer *g* are made of wedge shape, and adjusted by means of screws *i*, which pass through the end of file-holder B, and produce the square setting of the files. A central guide-screw, *l*, passes also to the rear of file-holder B, and through rear washer *g*, to key D, binding thereby the key and files firmly together.

After the teeth of the saw have been swaged, so that the teeth are spread a little more than necessary for use, and the shorter teeth raised sufficiently to strike the first file, the file-holder is adjusted on the saw so that the same runs steadily between the end screws. By turning, then, the saw backward the first file acts as a gage and file on the circumferential edge of the teeth; gives a true edge, and dresses them smoothly and evenly. The key is then loosened and taken out with the front file and washer. The file-holder is then screwed forward and the side files adjusted to the saw, which is then passed several times along the same until the rough side edge of the teeth is taken off, and a perfectly smooth and square edge is produced. The file-holder is then carried back, requiring, after being once set, but little adjustment, which is, however, easily obtained by detaching the sliding file-holder and adjusting the bottom set-screws. The saw, when dressed in this manner, will cut evenly and quickly through the wood, and produce a smooth quality of lumber.

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

The machine for dressing saw-teeth, consisting of base-piece A, with longitudinal screw *a* for carrying thereon the file-holder B, with files C, secured firmly therein by key D and washers *g*, and arranged and operating substantially in the manner and for the purposes set forth.

EDWIN GOWDY.

Witnesses:

WILLIAM P. FOSTER,

DANIEL J. WALTER.