

(Model.)

E. PRESTON.
DEVICE FOR JOINTING SAWS.

No. 253,555.

Patented Feb. 14, 1882.

Fig. 1.

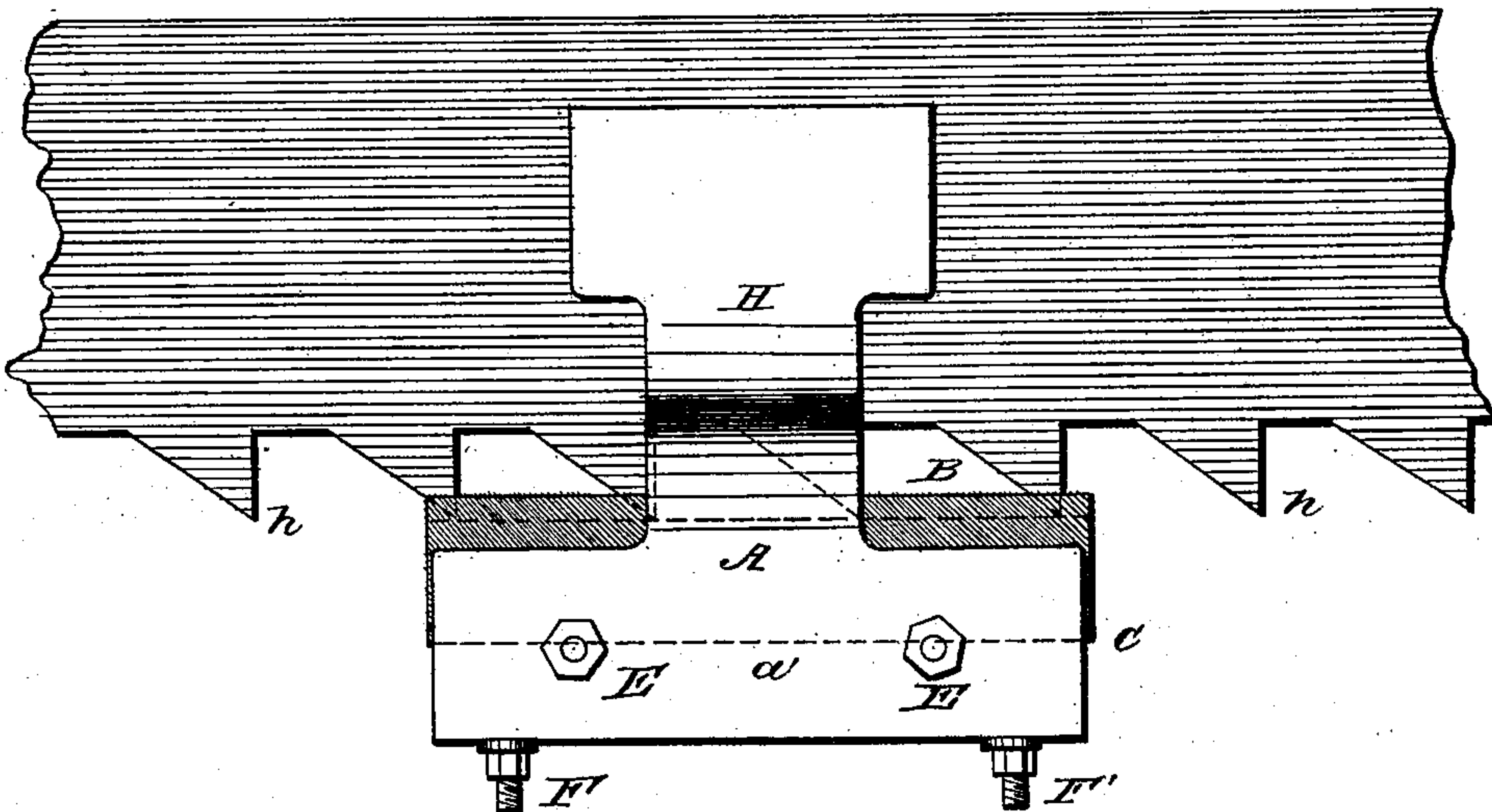


Fig. 2.

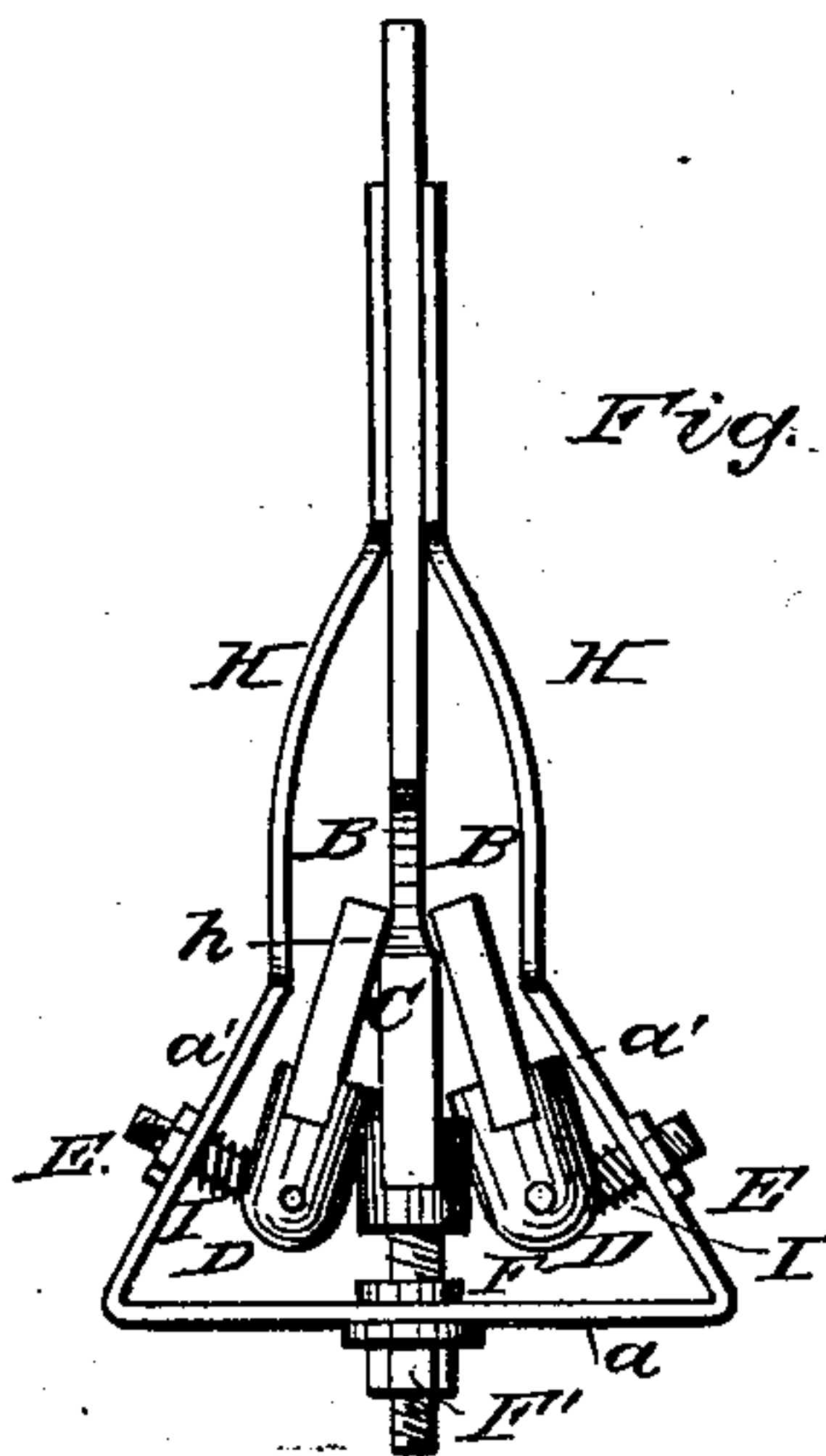
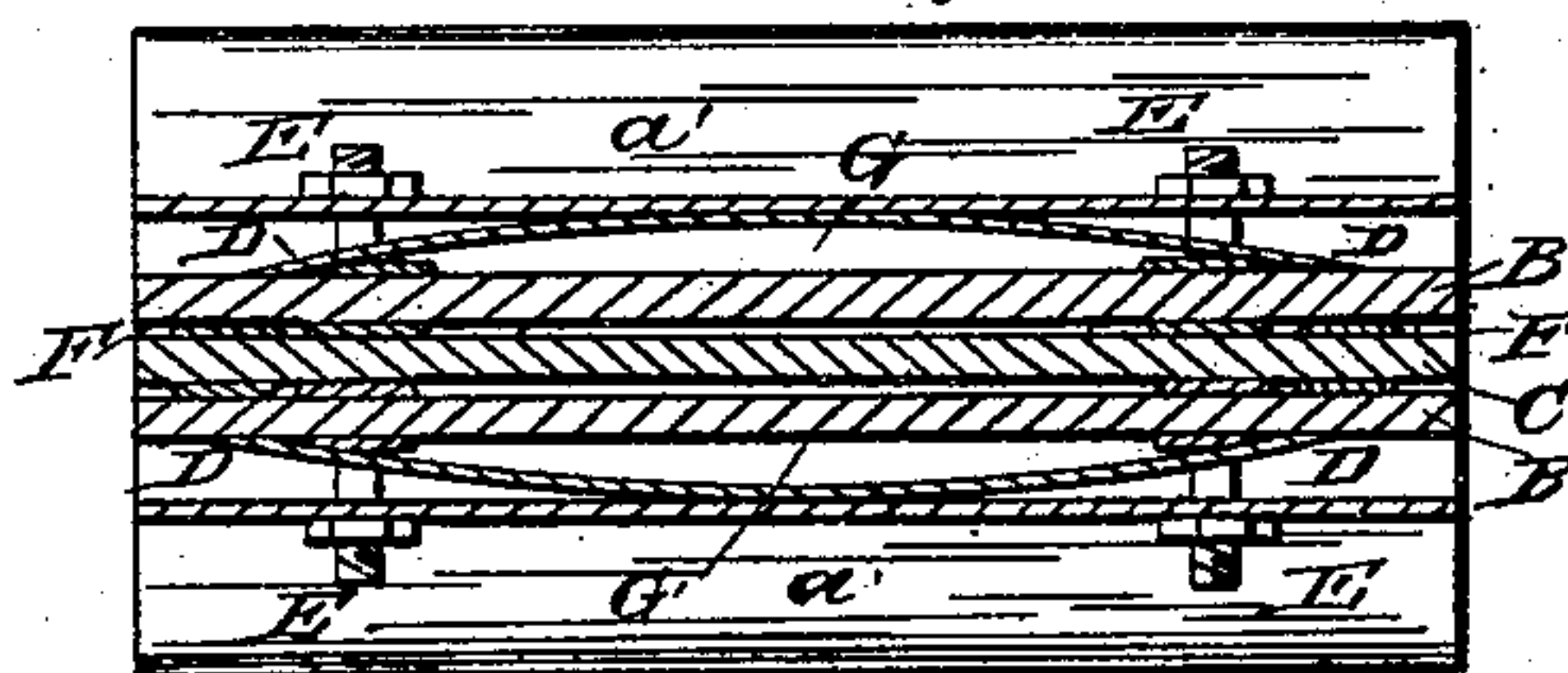


Fig. 3.



WITNESSES

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DEVICE FOR JOINTING SAWS.

SPECIFICATION forming part of Letters Patent No. 253,555, dated February 14, 1882.

Application filed October 1, 1881. (Model.)

To all whom it may concern:

Be it known that I, EDWARD PRESTON, of Winona, in the county of Winona and State of Minnesota, have invented certain new and useful Improvements in Side-Jointers and Sharpeners for Gang-Saws; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a device for facilitating the side-jointing and sharpening of the swaged or spread-out points of gang-saw teeth.

The object of the invention is to provide the device with adjustable and yielding file-blades which will readily conform to the shape of the teeth, and also to provide certain improved details of construction, as hereinafter described, and illustrated in the drawings, in which—

Figure 1 is a side elevation, with a section of the saw-blade held therein by the spring clamp-plates. Fig. 2 is an end view. Fig. 3 is a horizontal section taken on a plane just above the adjustable screws.

A indicates the file-holder, which consists of a flat plate, *a*, with the upturned sides *a'* *a'*, which converge toward their upper edges.

B B are two file-plates arranged longitudinally within the holder and converging toward their upper edges.

C indicates an intermediate plate, having its upper edge formed with file-teeth. This plate C is arranged between the two inclined file-plates, with its upper edge somewhat lower than the upper edges of the inclined plates, thus forming a channel with serrated sides and bottom. The inclined file-plates B are secured in the recessed upper ends of small bearing blocks or brackets D, which are pivoted at their lower ends to the inner ends of set-screws E, arranged to pass through the inclined sides of the holder. The central file-plate, C, is secured in place between the inclined file-plates by means of heads or blocks F upon the upper ends of set-screws F', which pass through the bottom plate of the holder.

G indicates semi-elliptic springs arranged

between the outer inclined file-plates and the inclined sides of the holder.

H H are the spring clamps or jaws, which extend upwardly from the inclined sides of the holder and normally stand in a closed position. The saw-blade, with its teeth spread out or swaged at their points, as at *h*, Fig. 2, is inserted between the spring-jaws, whereby the device will be held and guided upon the saw-blade. The pivoted inclined file-plates adapt themselves to the teeth-points, while the springs serve to hold the said plates against the sides of the teeth, in order that as the device is drawn along the saw the teeth will be jointed or sharpened and the proper inclination of their sides maintained. The upper edge of the intermediate file-plate will during such operation effectively sharpen the points or lower edges of the teeth. It will be observed that all of these file-plates can be adjusted to suit different saws by adjusting the set-screws, and that upon the set-screws holding the inclined plates I arrange springs I between the recessed pivoted brackets and the sides of the holder A. These springs can take the place of the half-elliptic springs, if desired.

Having thus described my invention, what I claim is—

1. The combination, with the file-holder, of the inclined files, supported by pivoted adjustable bearings, and the intermediate file, arranged to be adjusted vertically between the inclined files, substantially as described.

2. The combination, with the file-holder A, having spring-jaws for embracing the saw-blade, of the inclined file-plates B, secured in brackets that are pivoted to set-screws passing through the sides of the holder, the intermediate file-plate, supported between the inclined file-plates by set-screws, and the springs, arranged to act against the inclined file-plates, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

EDWARD PRESTON.

Witnesses:

J. M. SHEARDOWN,
A. CROCKETT.