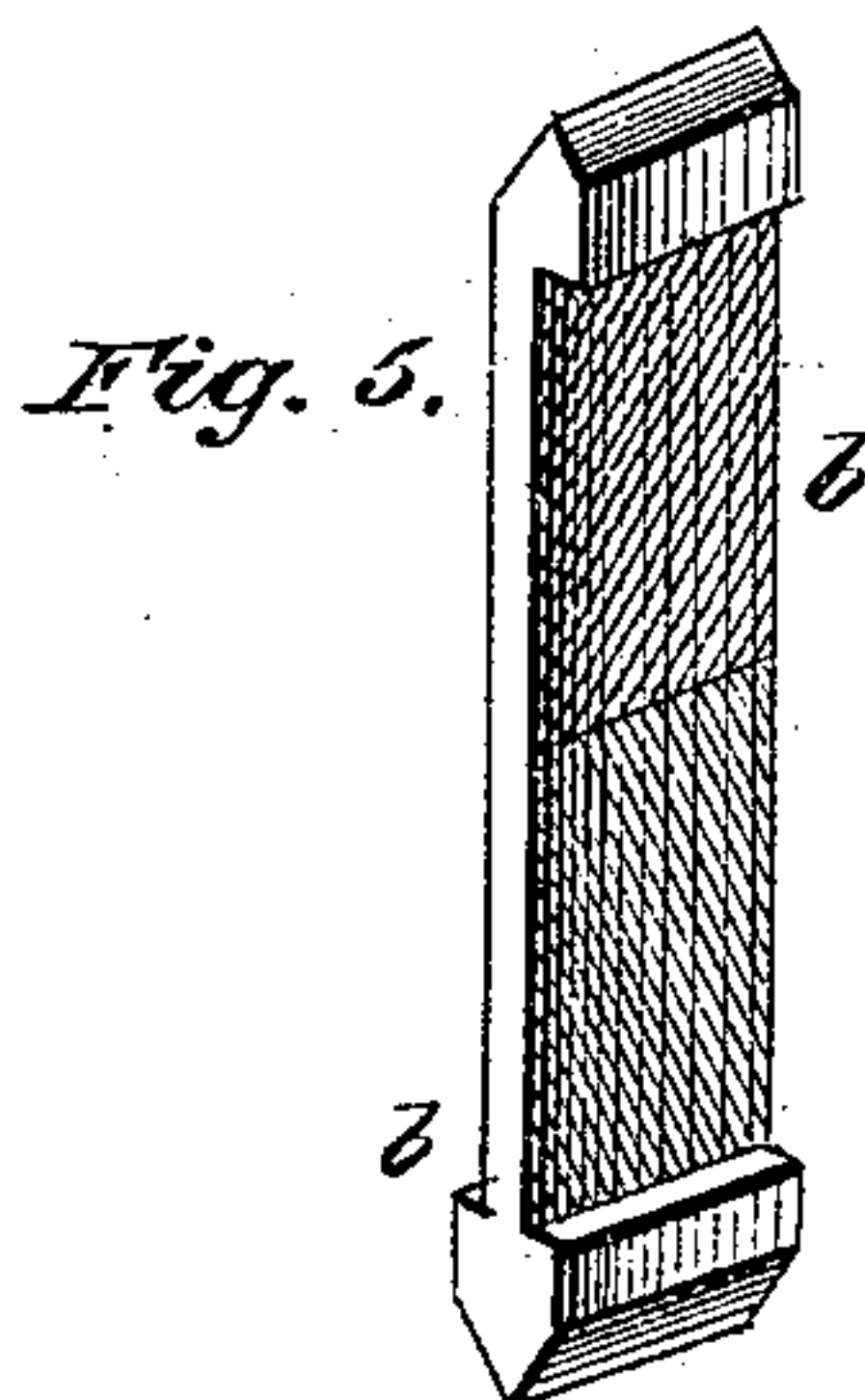
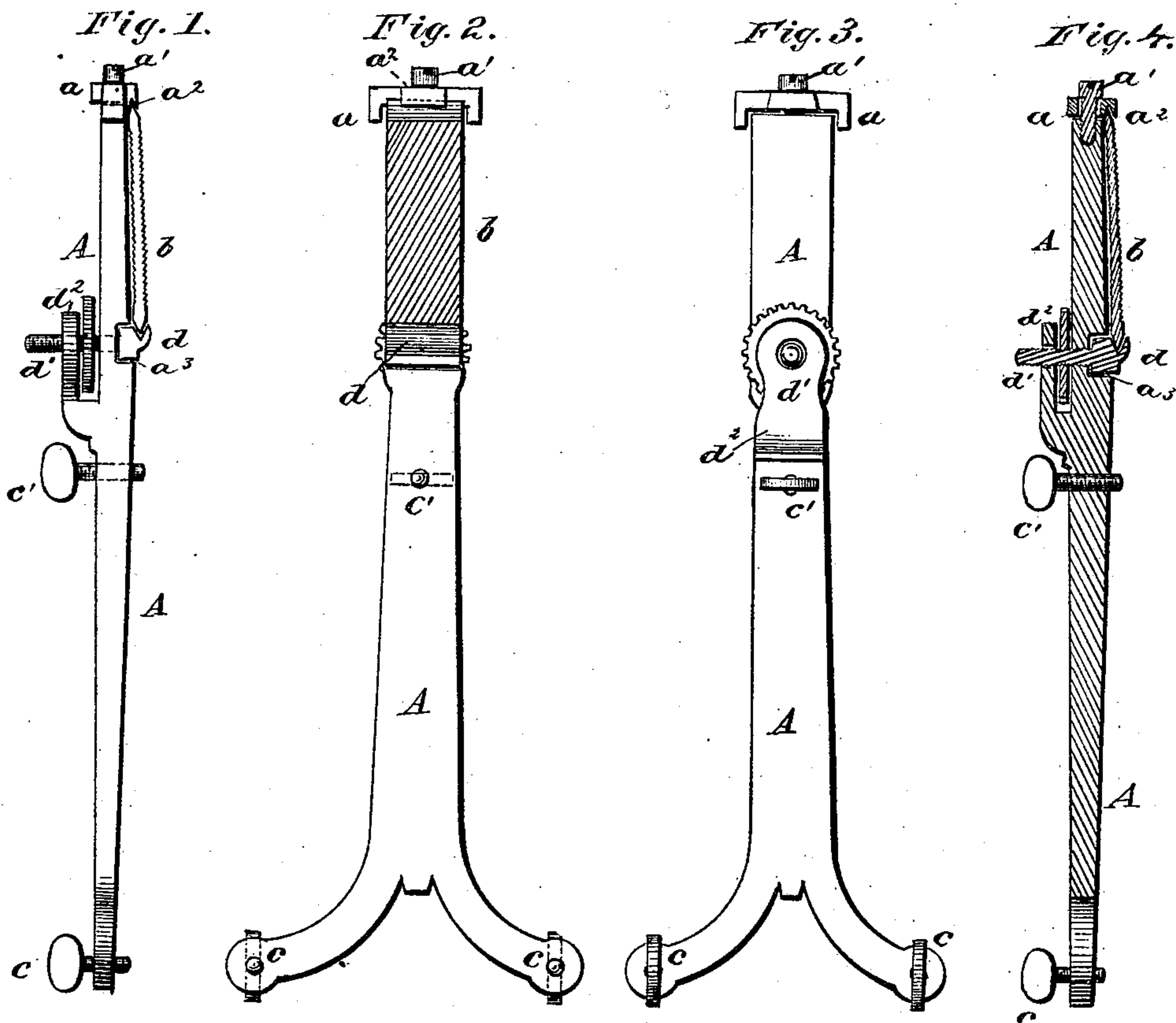


(No Model.)

E. HOLDERMAN.
DEVICE FOR DRESSING SAW TEETH.

No. 251,362.

Patented Dec. 27, 1881.



WITNESSES:
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UNITED STATES PATENT OFFICE.

EDMUND HOLDERMAN, OF LIBERTY MILLS, INDIANA.

DEVICE FOR DRESSING SAW-TEETH.

SPECIFICATION forming part of Letters Patent No. 251,362, dated December 27, 1881.

Application filed March 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, EDMUND HOLDERMAN, a citizen of the United States, residing at Liberty Mills, in the county of Wabash and State of Indiana, have invented a new and useful Improvement in Devices for Dressing Saw-Teeth, of which the following is a full, clear, and exact description, reference being had to the drawings hereto annexed.

The object of my invention is to give uniform set to saw-teeth after having been set and filed; and my invention consists in a bar of metal having set-screws and an adjustable guard for gaging the degree of set in saw-teeth, and suitable clamping devices for holding a reversible file at any desired angle of inclination.

In the accompanying drawings, Figure 1 represents a side view of my invention; Fig. 2, a bottom view; Fig. 3, a top view; Fig. 4, a longitudinal section, and Fig. 5 a modification of the file.

The difficulty of giving even and uniform set to saw-teeth is well known. After a saw is set and filed it becomes necessary to measure the set and to reduce all surplus by filing. In doing this with most instruments there is danger of filing off too much, which necessitates a resetting of the teeth and repeated filing. My invention is designed to obviate this difficulty, in that it is so constructed as to measure and file with great precision, so as to remove no more than the surplus set.

The bar A is made with branches or arms at its rear end, which are provided with set-screws *c c*. The forward end of the bar which carries the file is provided with a stirrup, *a*, which fits closely over the same, and is held adjustably in position by a screw, *a'*, passing through a vertical slot in the stirrup and screwing into the end of the bar. The under side of this stirrup is provided with a projection, *a²*, having an angular horizontal groove for receiving the edge-shaped end of file *b*. The rear end of the file is secured in a similar manner in a horizontal groove in the adjustable guard *d*, which is provided with a screw, *d'*, passing up through the bar A, and a suitable bracket, *d²*, on the upper side, the said screw being provided with a thumb-nut for raising and depressing the guard in the trans-

verse recess *a³* on the under side of the said bar. The file is thus designed to be held in an inclined position, and to accommodate this inclination the under side of the bar at its forward end, where the file is attached, is depressed or deflected upward from the plane in which the bar moves. The said guard will be a fraction higher than the upper surface of the file, the rear end of the file being thus carried close to the side of the saw and parallel with the set in the tooth when the guard strikes the set. To prevent the tooth from dropping behind the said guard, a set-screw, *c'*, is provided, which passes through the bar just behind the guard.

In combination with the bar as above described I purpose using a file which may be reversed endwise and sidewise, so as to have four grades of file, and as each grade of file will require a guard in proportion to coarseness of file, I shall place suitable guards on the rear ends of said files whenever required.

My invention is operated as follows: The guard *d* and set-screws *c c* in the arms of the bar are adjusted so as not to permit the file to reduce the set beyond the required degree. Then, if greater or less angle is desired, operate set-screws *c c* and raise or depress the slotted stirrup *a* by means of its screw. Then adjust set-screw *c'* in line with *c c* and *d*. This can be done by placing the device on the side of the saw or other flat surface. Move the device to and fro upon the flat surface of the saw, so that the file will pass entirely over the points of saw-teeth until the surplus set is removed. The extreme point of the tooth will thus have the widest set, so that the tooth will pass clear of the kerf cut by the saw without binding.

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

1. In a device for dressing saw-teeth, a straight narrow bar having two branches at one end and the under surface of its opposite end deflected upward from a right line, in combination with a reversible file and means for securing the file to the bar, substantially as shown and described, and for the purpose set forth.
2. In a device for dressing saw-teeth, the combination of the bar A, having the under

surface of its forward end deflected upward from a straight line, the vertically-adjustable stirrup *a*, secured to said end by screw *a'*, the guard and file-holder *d*, having a suitable thumb-nut, and reversible file *b*, substantially as shown and described.

3. In a device for dressing saw-teeth, the bar *A*, having set-screws *c c* and *c'*, in combi-

nation with adjustable guard *d*, slotted stirrup *a*, and reversible file *b*, substantially as shown and described, and for the purpose set forth.

EDMUND HOLDERMAN.

Witnesses:

JESSE ARNOLD,
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