

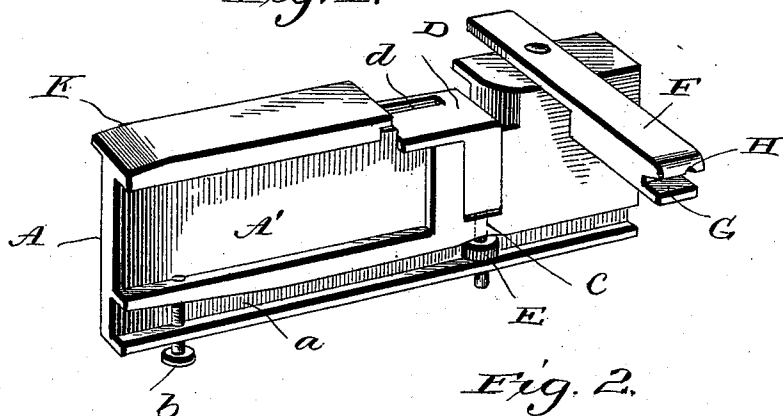
(No Model.)

R. BENNETT.  
SAW TOOL.

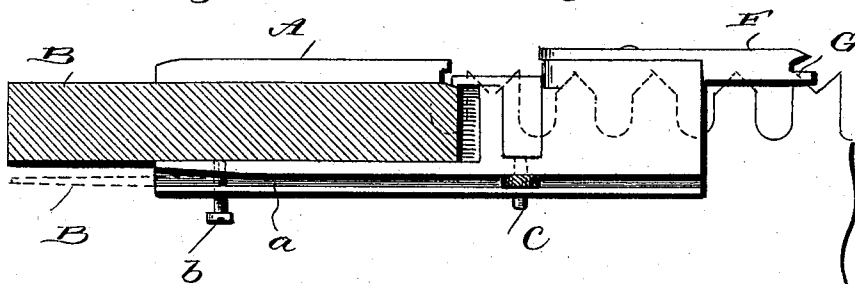
No. 569,993.

Patented Oct. 27, 1896.

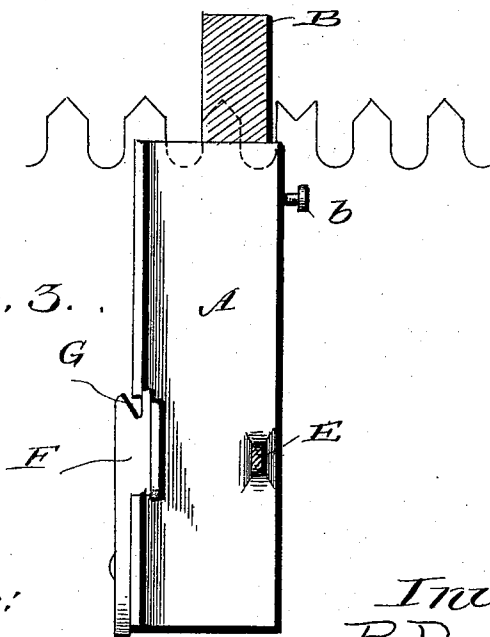
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:  
L. C. Wilco.  
a L. Hough

Inventor:  
R. Bennett,  
by Franklin A. Hough  
Atty.

# UNITED STATES PATENT OFFICE.

RICHARD BENNETT, OF RACKET LAKE, NEW YORK.

## SAW-TOOL

SPECIFICATION forming part of Letters Patent No. 569,993, dated October 27, 1896.

Application filed June 15, 1896. Serial No. 595,680. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD BENNETT, a citizen of the United States, residing at Racket Lake, in the county of Hamilton and State of New York, have invented certain new and useful Improvements in Saw-Tools; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in saw-tools, and it has for its object the provision in a single element of a saw-jointer, side dresser, and setting-tool, by the use of which it will be possible to perfectly set the teeth of a saw and to cut off the side edges of the teeth after the same has been set.

To these ends and to such others as the invention may pertain the same consists in the peculiar construction of the combination-tool, all as hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of my improved combination-tool with the setting member shown as swung open or to one side. Fig. 2 is a side elevation of the tool as applied to a saw in the position required in jointing the tips of the cleaner-teeth. Fig. 3 is a side elevation of the tool as it appears while holding a file in position for dressing a saw-tooth.

Reference now being had to the details of the drawings by letter, A designates the stock or body portion of the tool, having formed in one of its side faces a depression or recess A', which recess extends longitudinally from one end of the stock to a point adjacent to the longitudinal center of the same, where is located the racker tooth-gage, which will be hereinafter described. The recess A' is designed to receive and hold a file, and is of a depth slightly greater than the thickness of

the file used, so that when the file is placed within the recess the outer or exposed cutting-face of the file will extend slightly beyond the outer side face of the stock. The recess is made to conform to the shape of the file; that is to say, it has a uniform and gradual taper from end to end, being of the greatest width at the end of the stock. The depth is greatest at the end of the stock and the depth decreases uniformly as the opposite or inner end of the recess is approached.

It will be seen that when a file is placed within the recess and secured therein by the set-screw *b*, which is passed through a screw-threaded opening in the side edge of the stock and engages the edge of the file, the file will be held firmly within the recess with the cutting-face of the file at the angle with reference to the face of the stock which may be found to produce the best results in use.

The file when properly adjusted within the recesses A' is used in side-dressing the saw-teeth, in accomplishing which the tool is held in such position as to bring the flat exposed face of the file into contact with the blade of the saw, so as to act upon the side edges of the teeth, as will be readily understood.

The portion of the tool which is designed to retain the file in position to best adapt it for use in jointing the ends of the cleaner-teeth consists of a groove *a*, which is designed to receive the file when turned edgewise. This groove *a*, while of a uniform depth throughout its entire length, is of greatest width at the end of the stock A, so that when a file is placed within the said recess it may be adjusted within the recess so as to conform with the line of curvature of the teeth of the saw, as will be readily understood. To secure the proper adjustment and also to retain the file in its proper adjusted position, the set-screw *b* is employed.

Mounted on a screw-threaded pin C is the racker tooth-gage D, which has a slit *d* cut from its free end on one side of the stock of the tool, and the upright portion of the member D is vertically adjustable in a recess in the stock, the threaded nut E being turned either to the right or to the left, according as to whether it may be desired to raise or lower the gage.

When it is desired to set the teeth of a saw, the setting member F is closed. The edge of the stock beneath the notched end of the setting member is placed against the side of the saw with the flat or the V-shaped portion of the set, as the case may be, resting on the tooth to be set. A blow with a mallet is then imparted to the upper end of the setting member.

When it is desired to use the tool as a common hammer-set, one of the flat faces of the stock is beveled so as to permit the saw to be placed thereon with the teeth projecting over said bevel. In Fig. 1 of the drawings the narrow edge, as shown at K, is for this purpose, but it may also be used upon a flat side or face of the stock.

From the foregoing description, in connection with the illustrations of the device shown in the accompanying drawings, the various uses to which the tool is adapted will be readily understood, the essential object of the invention being, as stated, the production within a single device of features of construction which adapt the tool for use in jointing, side-dressing, and setting the teeth of saws.

Having thus described my invention, what

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

The herein-described combination-tool the same comprising a stock or body portion having one of its faces provided with a tapering recess or depression A' within which a file may be adjustably seated, a set-screw for adjusting and securing the file in said recess, an independent narrow and tapering recess within which the file is adjusted and held in position for convenient use in jointing saw-teeth, a racker tooth-gage D vertically adjustable within a dovetailed recess in the stock as described, means for vertically adjusting the gage-block, and the swinging setting member F, pivoted at a point adjacent to one of its ends to the stock, and having its opposite end notched as described substantially as described and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD BENNETT.

Witnesses:

JOHN McLAUGHLIN,  
WAUER STEWES, Jr.