

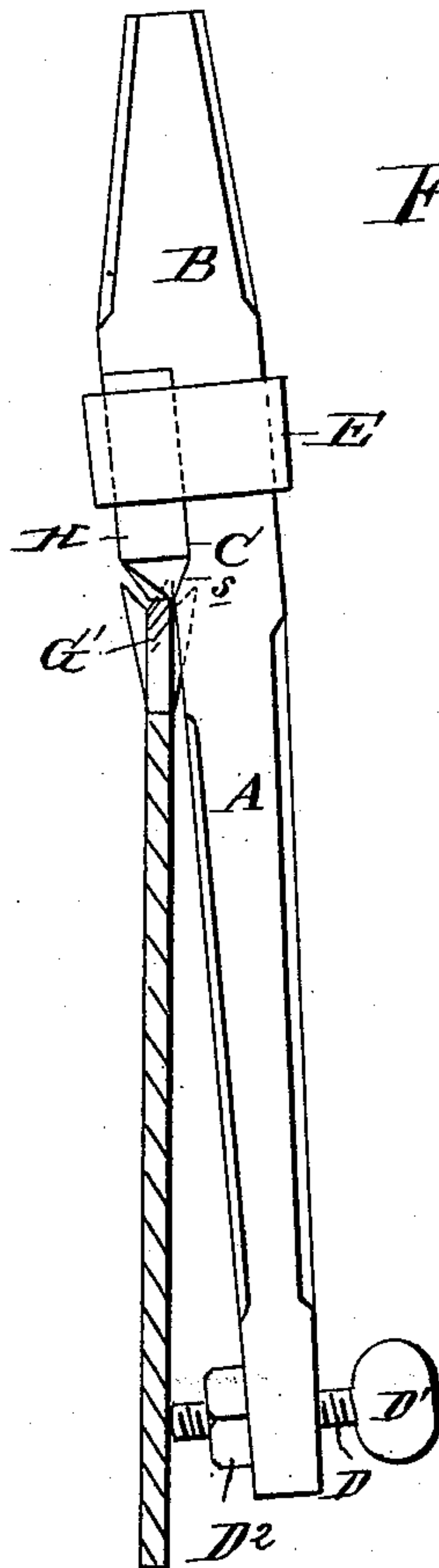
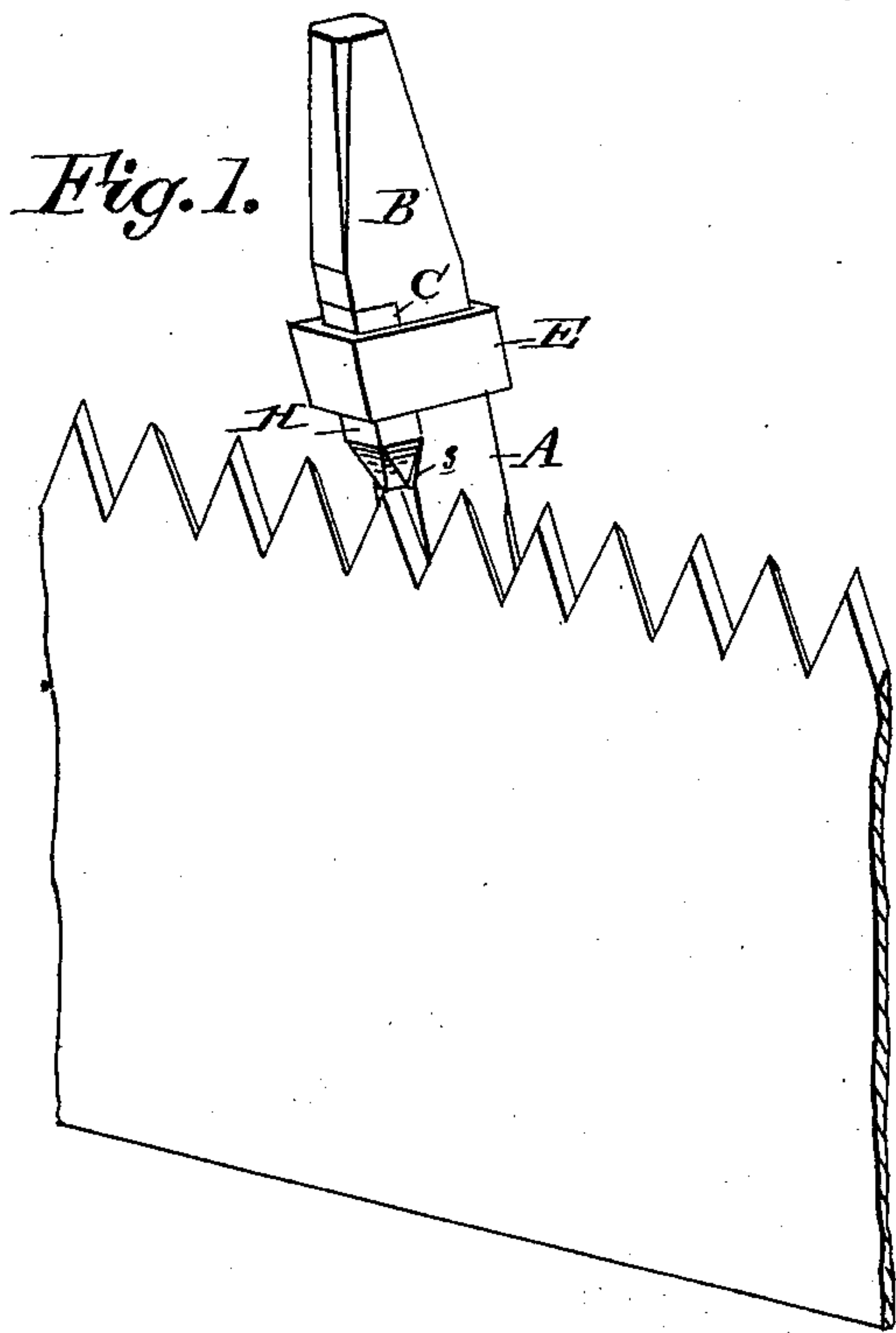
(No Model.)

G. MARSH.

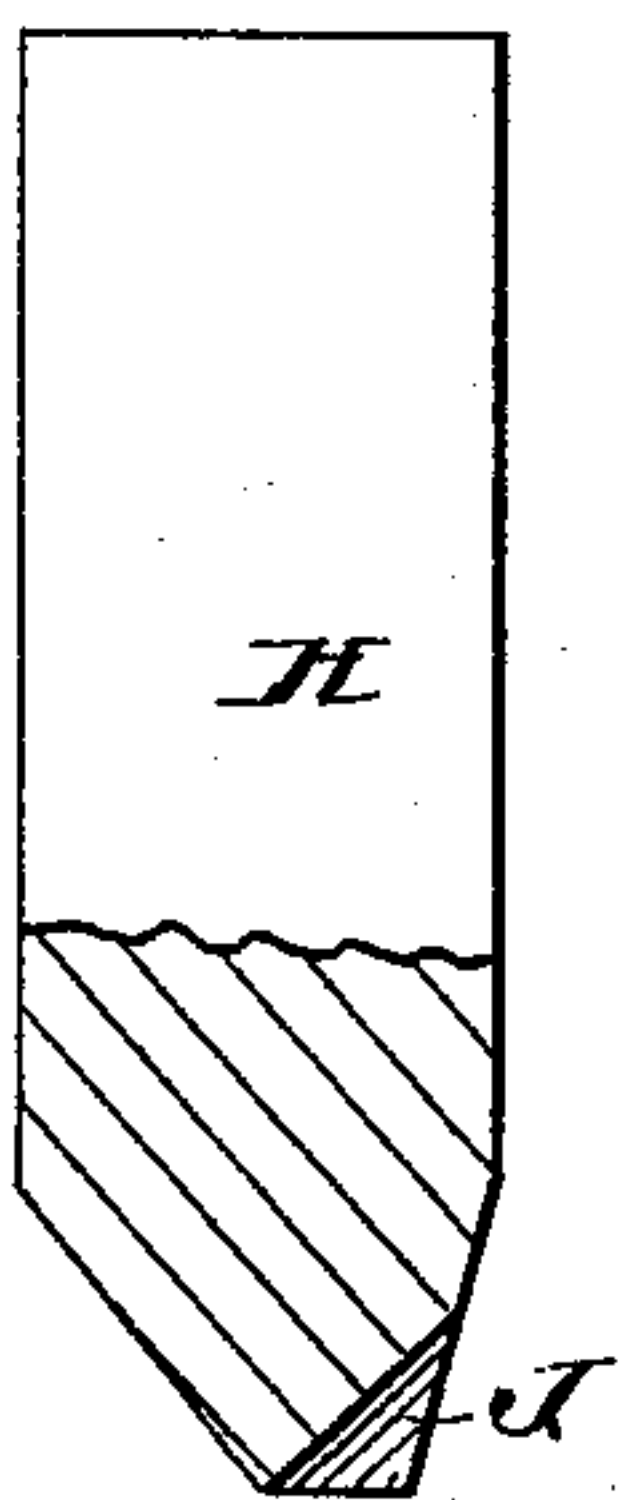
SAW SET.

No. 326,308.

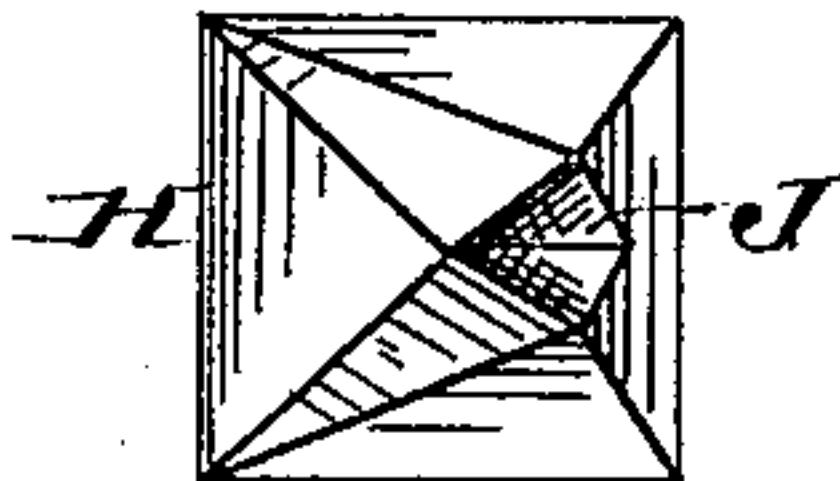
Patented Sept. 15, 1885.



*Fig. 3.*



*Fig. 4.*



WITNESSES:

*H. Beyer*  
*C. Sedgwick*

INVENTOR:

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# UNITED STATES PATENT OFFICE.

GIDEON MARSH, OF MANCELONA, MICHIGAN.

## SAW-SET.

SPECIFICATION forming part of Letters Patent No. 326,308, dated September 15, 1885.

Application filed August 29, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, GIDEON MARSH, of Mancelona, in the county of Antrim and State of Michigan, have invented a new and Improved Saw-Set, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for setting the teeth of saws by placing the device on the teeth and striking the device with a hammer.

The invention consists in a bar or stock having a shoulder against which a die is held by a band passed around the die and the stock. The die is placed on the top or point of the tooth and one or more blows are delivered on the top of the stock. The inclination of the teeth is regulated by the inclination of the stock, which in turn is regulated by a suitable set-screw.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved saw-set, showing the manner in which it is used on the saw. Fig. 2 is a side view of the same, also showing the manner in which it is used. Fig. 3 is a longitudinal elevation of a detachable die. Fig. 4 is a plan view of the under side of the same.

The steel stock or bar A is provided at one end with a slightly-tapered head, B, and below the head with a notch, C, in one edge.

A screw, D, having a suitable head, D', is passed through the lower end of the bar or stock in such a manner that the head of the screw will be on that edge of the stock or bar A opposite the one in which the notch C is formed. A locking-nut, D<sup>2</sup>, is mounted on the screw D. A die, H, has its lower end tapered, and is provided with a notch or recess, J, the top of which is inclined from the inner edge of the die downward toward the middle of the lower end of the die, the sides of the notch being beveled, as shown in Figs. 3 and 4. The die H is placed in the notch or recess C in the stock, and is held on the same by a wedge-band, E, surrounding the stock and the die, and holding the die firmly. The lower end of the recess C for receiving the die H is inclined outward—that is, it is provided with a beveled shoulder, s, which faces the recess J in the bottom of the die.

To set a saw, the same is first secured firmly in the horizontal position, and edgewise, in a vise, or in any other device, in such a manner that the teeth project upward, and then my improved saw-set is placed on the saw, on that side opposite the bevel of the teeth to be set, in such a manner that the point of the tooth G' to be set passes into the notch J in the lower end of the die H, and the point of the screw D rests against the side of the saw. A blow is then delivered on the top of the head or upper end of the stock, whereby the point of the tooth is pressed over by the die against the inclined shoulder s, and thus the saw is set.

If the point of the screw D projects but a short distance from the inner side of the stock A, the stock will rest almost flat against the side of the saw, and if a blow is delivered on the stock the die can press the point of the tooth against the inclined shoulder s. If the screw D is turned so as to project a greater distance from the inner edge of the stock, the stock will be inclined to the side of the saw, and thus the angle between the inclined shoulder s and the tooth will be less, and by delivering a blow on the stock the point of the tooth will be bent but a short distance. By turning the screw to project still farther from the inner edge of the stock the bevel of the shoulder s and the side of the tooth will finally be brought in line with the saw, and thus no set at all will be given to the tooth. By means of the screw the inclination of the stock to the saw can thus be governed and the desired set given to the teeth. As the inclination of the stock to the saw increases the set given to the tooth decreases.

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

In a saw-set, the combination, with a bar or stock, B, having a notch, C, and a shoulder, s, of the die H, held in the notch, the band E, surrounding the stock and die, and the screw D, substantially as herein shown and described.

GIDEON MARSH.

Witnesses:

GETTIS LAYMAN,  
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