

(No Model.)

A. L. & E. BUELL.

SAW SET.

No. 399,490.

Patented Mar. 12, 1889.

Fig. 1.

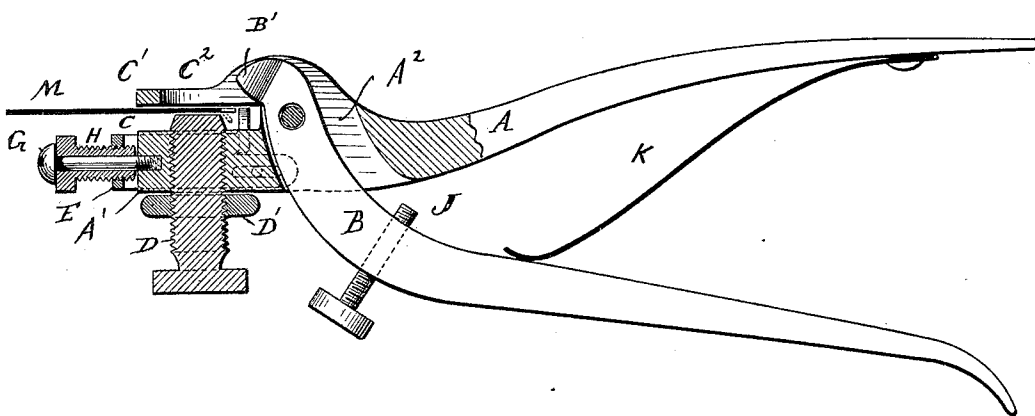


Fig. 2.

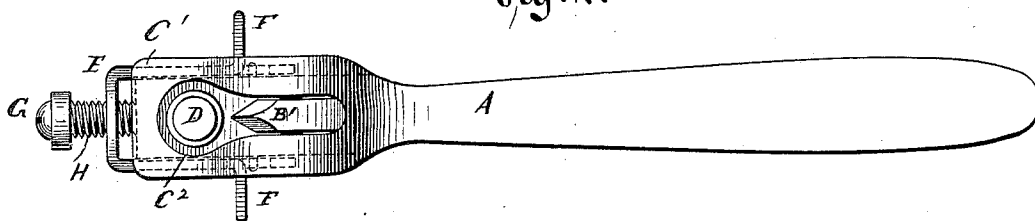


Fig. 3.

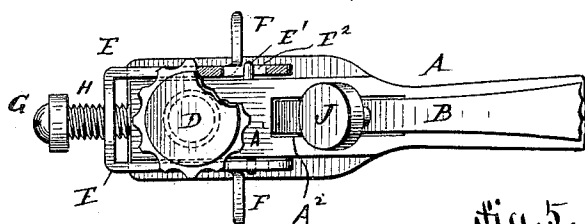


Fig. 4.

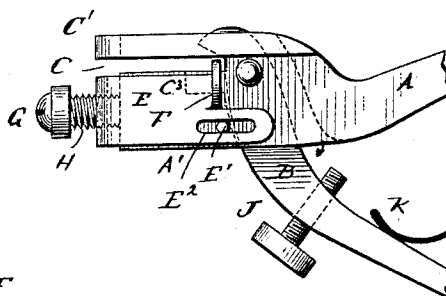
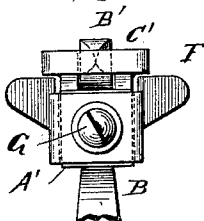


Fig. 5.



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# UNITED STATES PATENT OFFICE.

ANDREW L. BUELL AND EDGAR BUELL, OF CLINTON, CONNECTICUT,  
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## SAW-SET.

SPECIFICATION forming part of Letters Patent No. 399,490, dated March 12, 1889.

Application filed July 13, 1888. Serial No. 279,828. (No model.)

*To all whom it may concern:*

Be it known that we, ANDREW L. BUELL and EDGAR BUELL, of Clinton, county of Middlesex, and State of Connecticut, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

The object of our invention is to provide a new and improved saw-set which can readily be adjusted for setting saw-teeth of different sizes, and for spreading the teeth more or less, as may be desired.

The invention consists in the combination, with a head and its handle, of another handle pivoted in said head and provided with a diamond-shaped setting-jaw having its bottom rounded.

The invention further consists in the combination, with said handles, head, and jaw, of an adjustable gage and an abutment for the saw-blade.

The invention also consists in the construction and combination of parts and details, as will be fully described and set forth, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a side view of our improved saw-set, parts being in section and others broken out. Fig. 2 is a top view of the same. Fig. 3 is a bottom view of one end part of the same, parts being broken out and others being in section. Fig. 4 is a side view of one end part of the same, showing a modified construction. Fig. 5 is an end view of the same.

Similar letters of reference indicate corresponding parts.

The handle A and head A' are made integral, and the latter is provided with the slot A<sup>2</sup>, in which the curved handle B is pivoted. On the end of the handle B the setting-jaw B' is formed, which is diamond-shaped, and has its bottom curved; so as to adapt it to set teeth of different lengths or sizes. The head A' has a transverse slot, C, extending from the front inward and serving to receive the saw-blade M. The tongue C', forming the top of the recess C, is provided with an opening, C<sup>2</sup>, forming a continuation

of the slot A<sup>2</sup>, and into said opening the jaw B' projects.

The abutment for supporting the saw-blade may be fixed or adjustable, the latter construction being shown in Figs. 1, 2, and 3, and the former in Figs. 4 and 5.

The adjustable abutment consists of the screw D, screwed through the bottom of the head A, and provided with a lock-nut, D', for keeping it in the desired position.

A U-shaped frame, E, is mounted to slide on the sides of the head A', on which it is guided by pins E', projecting from the sides of the head into longitudinal slots E<sup>2</sup> in the shanks of said sliding frame.

Gage-lugs F, against which the ends of the teeth can be rested, project laterally from the shanks of said sliding frame E.

A pin, G, projects from the end of the head A', and is surrounded by a tubular screw, H, the thread of which engages the thread of an aperture in the closed end of the slide E, said screw having a milled or other head for turning it. By turning the said screw the slide E is moved lengthwise, and the gage-lugs F can be adjusted a greater or less distance from the abutment, according to the length of the teeth.

A stop-screw, J, is provided in the handle B, and a spring, K, for pressing the two handles from each other, is provided on the handle A. In case a fixed abutment is used, as shown in Figs. 4 and 5, the bottom of the recess C is provided with the offset C<sup>3</sup>, Fig. 4.

The gage-lugs F are adjusted according to the length of the saw-teeth, the saw-blade M is placed in the recess C, and upon the abutment, the teeth resting against the gage-lugs F, and then the handles A and B are pressed toward each other, whereby the teeth are spread or set by the jaw B'.

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

In a saw-set, the combination, with a slotted head and its handle, of a handle pivoted in said head and having a diamond-shaped setting-jaw, a sliding gage on said head, a pin

fixed in the end of the head, a tubular screw  
surrounding said pin and screwed through a  
threaded aperture in the closed end of the  
sliding gage, and an abutment on the above-  
5 mentioned head, substantially as herein  
shown and described.

In testimony that we claim the foregoing as

our invention we have signed our names in  
presence of two subscribing witnesses.

ANDREW L. BUELL,  
EDGAR BUELL.

Witnesses:

EZRA E. POST,  
FELIX S. MEIGS.