

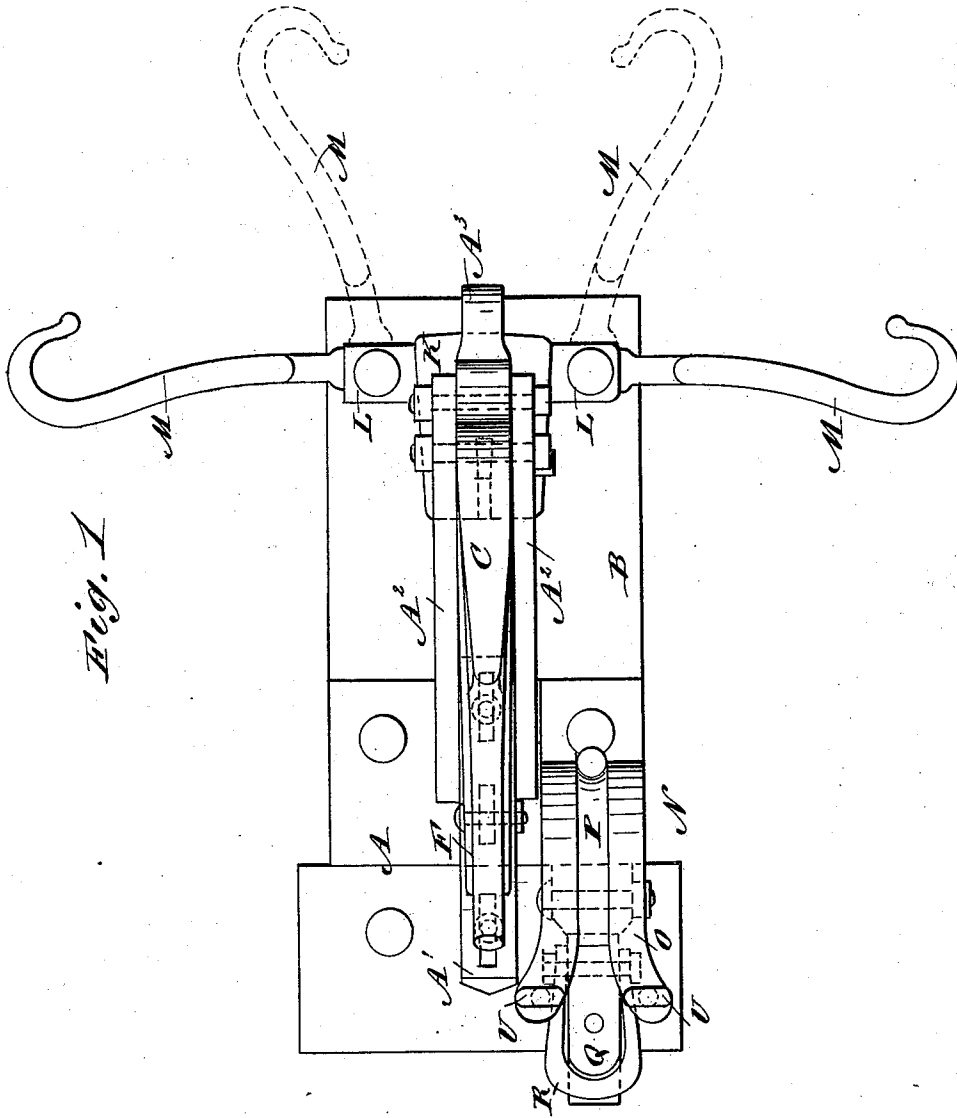
(No Model.)

2 Sheets—Sheet 1.

E. ROGERS.
SAW GUMMER.

No. 357,336.

Patented Feb. 8, 1887.



WITNESSES:

C. Newell

C. Sedgwick

INVENTOR:

E. Rogers

BY

Munn & Co.

ATTORNEYS.

(No Model.)

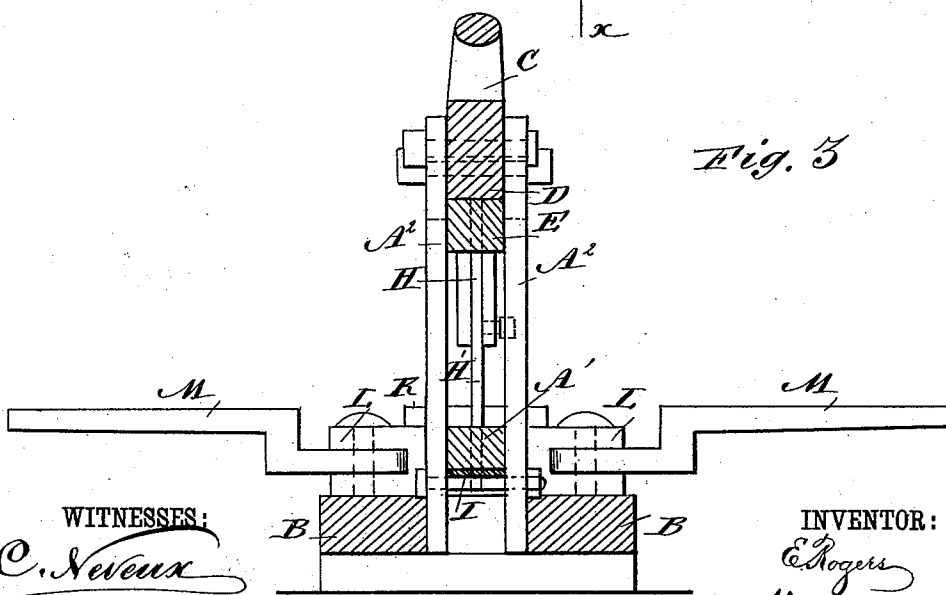
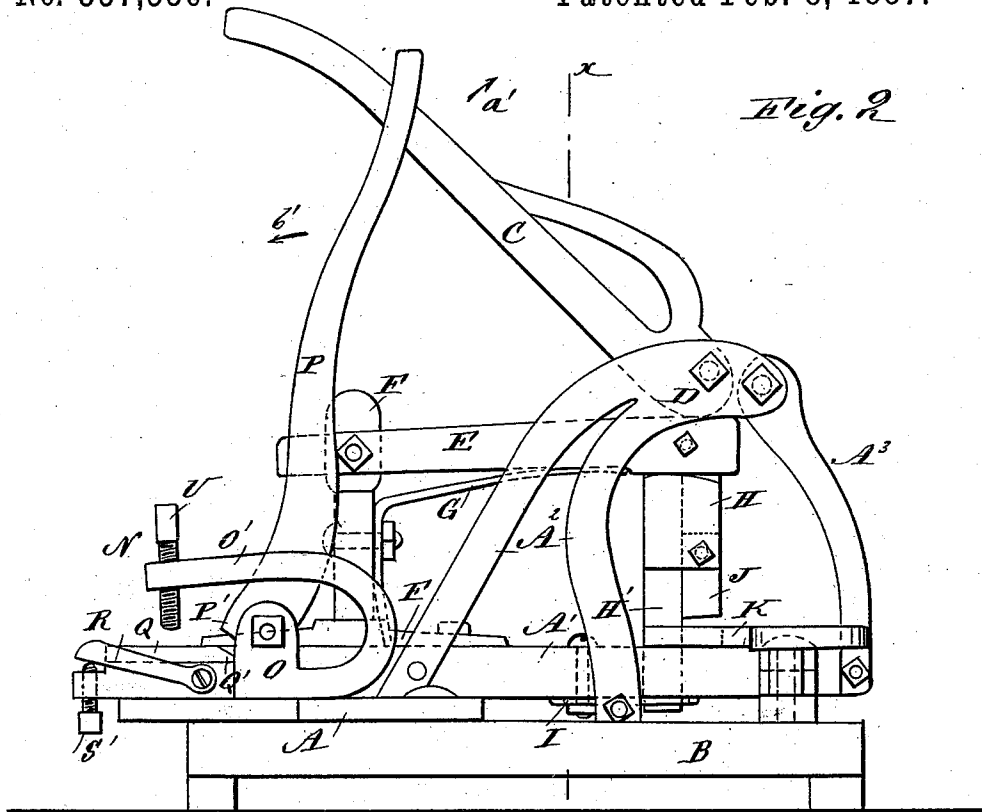
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UNITED STATES PATENT OFFICE.

ELI ROGERS, OF FULTON COUNTY, INDIANA.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 357,336, dated February 8, 1887.

Application filed July 28, 1886. Serial No. 209,298. (No model.)

To all whom it may concern:

Be it known that I, ELI ROGERS, residing in the county of Fulton, and the State of Indiana, have invented a new and Improved Saw-Gummer, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved saw-gummer which is simple in construction, durable, and effective in operation.

The invention consists of a cam-lever operating a spring-arm, on which is pivoted a tool-holder.

The invention also consists of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

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 plan view of my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal cross-section of the same on the line *xx* of Fig. 2.

The base-plate A is secured to a table or bench, B, and is provided with a horizontal arm, A', on which are mounted the standards A², to the upper ends of which is pivoted a lever, C, having a cam, D, which is in contact with the front end of the arm E, pivoted on the standard F, and held in contact with the cam D by the spring G, fastened to the said standard F, which is adjustable on the arm A'.

To the front end of the pivoted arm E is pivoted a tool-holder, H, having an extension, H', which is guided in the plate I, adjustable on the under side of the horizontal arm A'. A gumming-tool, J, is secured to the arm H, and its rear end rests on the extension H'.

The die-plate K is secured to the front part of the horizontal arm A', which is also provided with the cross-pieces L, on each of which is pivoted a saw-rest, M. The standards A² are additionally supported in front by the brace A³, secured to the arm A'.

On the base-plate A is also mounted a saw-set, N, which consists of a frame, O, on which is pivoted a guide-lever, P, having an offset or tool, P', which forms the tool for setting the saw. On the frame O is secured the anvil-

plate Q, having an arm, Q', directly under the tool P', and the saw-rest R is pivoted to the frame O, and is held at any desired angle by the screw S, which screws on the frame O. On the upper bent ends, O', of the frame O screw the set-screws U.

The operation is as follows: The saw to be gummed is placed on the die-plate K, and is supported at its outer end on each side of the machine by the saw-rests M. The cutting lower edge of the tool J is held above the die-plate K by the action of the spring G on the pivoted arm E, so as to permit the operator to place the saw in the desired position under the tool J, the front edge of the saw-blade resting against the projection H'. The operator now moves the lever C forward and downward in the direction of the arrow *a'*, whereby the cam D acts on the pivoted arm E and presses the same downward, which causes the tool J to cut the saw-blade to form the tooth. The operator then moves the lever C to its former position and the compressed spring G forces the arm E to swing upward, and thus places the tool-holder H and its tool J again in the original position, as shown in Fig. 2. The saw is then moved the desired distance across the die-plate K, so as to form the next tooth, and the above operation is repeated.

If it is desirable to gum circular saws the brace A³ is removed and the saw-rests M are swung forward to the position shown in dotted lines in Fig. 1, so as to form a better support for the circular saw.

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

1. In a saw-gummer, the combination, with a cam-lever, of a swinging arm, a spring pressing against said arm, and a tool-holder pivoted to the said arm, substantially as shown and described.

2. In a saw-gummer, the combination, with a cam-lever, of a swinging arm pivoted to an adjustable standard, a spring operating on said arm, a tool-holder pivoted on the said arm and having an extension, and a guide-plate for the said extension, substantially as shown and described.

3. In a saw-gummer, the combination, with a cam-lever, of a swinging arm, a spring press-

ing against said arm, a tool-holder pivoted on said arm, a gumming-tool attached to the said holder, and a die-plate secured to the main frame, substantially as shown and described.

5 4. In a saw-gummer, the combination, with a cam-lever, of a swinging arm, a spring pressing against said arm, a tool-holder pivoted on the said arm and having an extension, a guide-plate for the said extension, a gumming-tool
10 fastened to the said holder, and a stationary die-plate secured to the main frame, substantially as shown and described.

5. In a saw-gummer, the base-plate A, the
15 horizontal arm A', secured to the said base-plate, the standards A², fastened on the said

arm A', the standard F, adjustable on the arm A', the plate I, adjustable on the under side of the said arm A', the die-plate K, secured to the said arm A', and the saw-rests M, pivoted to the said arm A', in combination with the cam- 20 lever C, pivoted on the standards A², the arm E, pivoted on the standard F, the spring G, pressing on the arm E, the tool-holder H, pivoted to the said arm E, and the tool J, fastened in the holder H, substantially as shown 25 and described.

ELI ROGERS.

Witnesses:

JOSEPH S. NEELY,
JACOB HOFFMAN.