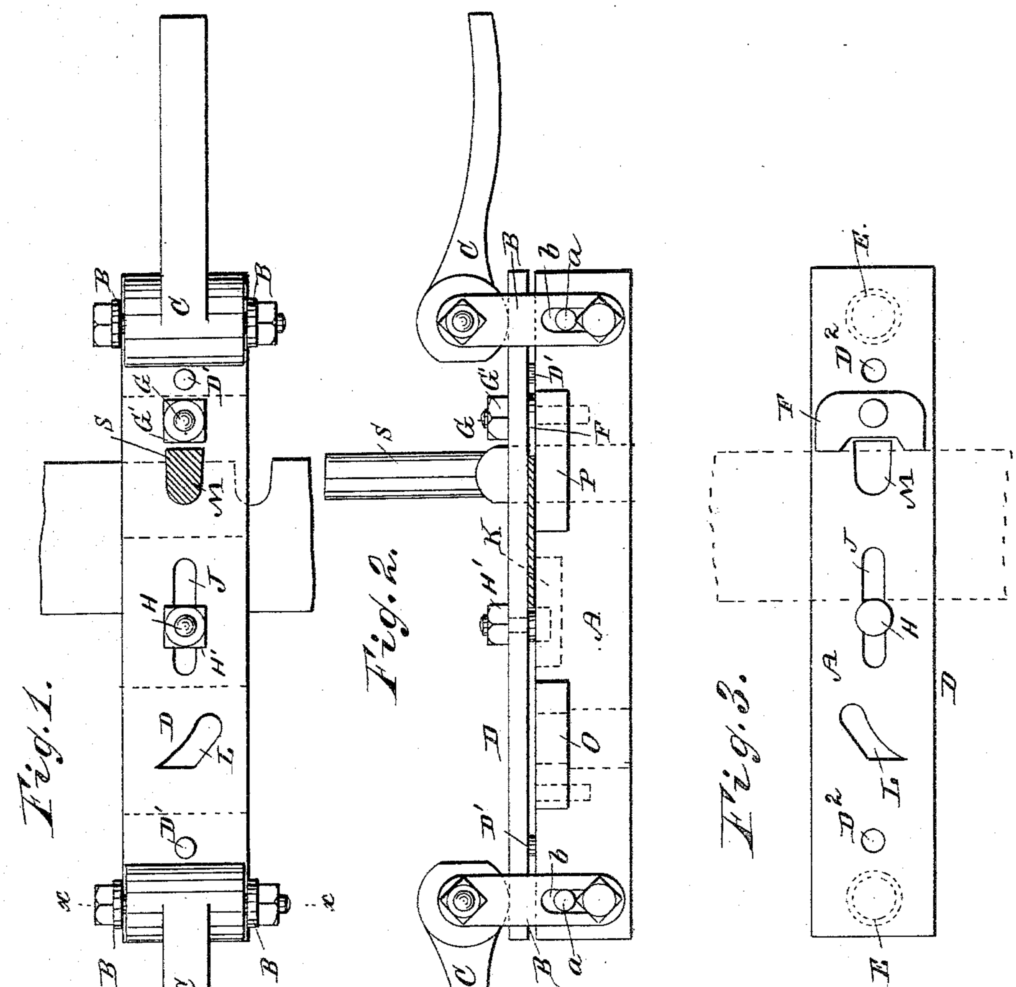
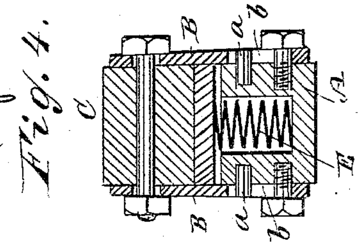
(Model.)

J. STUEMPGES.

SAW GUMMER.

No. 304,146. Patented Aug. 26, 1884.





WITNESSES:

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JOHN STUEMPGES, OF STEVENSON'S PIER, ASSIGNOR OF ONE-HALF TO ALBERT B. STEVENSON, OF GARDNER, WISCONSIN.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 304,146, dated August 26, 1884.

Application filed February 25, 1881. (Model.)

To all whom it may concern:

Be it known that I, JOHN STUEMPGES, of Stevenson's Pier, in the county of Door and State of Wisconsin, 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 device for gumming saws or cutting new teeth in saws.

The invention consists in the combination, with a base-block, of dies held in the same, a plate held above the base-block, means for pressing the plate on the base-block, and thus clamping the saw in place, and gages for holding the saw in the proper position, all as will be fully described hereinafter.

Reference is to be had to the accompanying drawings, forming 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 improved saw-gummer. Fig. 2 is a longitudinal elevation of the same. Fig. 3 is a plan view of the top plate inverted. Fig. 4 is a cross-sectional elevation on the line *x x*, Fig. 1.

On each surface of a base-block, A, a strap, B, is pivoted at each end, which straps are provided at the lower ends with slots *a*, through which pins *b* pass to hold the straps erect.

Between the upper ends of each pair of straps B a cam-lever, C, is pivoted.

On the base-block A a steel plate, D, rests. Pins D′, projecting from the upper surface of the block A, pass into apertures D^2 in plate D. The ends of the plate D, which pass under the cam-levers, rest on spiral springs E, held in the ends of the block A.

Between the upper surface of the block A and the plate D a gage, F, is held by a screw, G, having a nut, G′. A bolt, H, passes through a longitudinal slot, J, in the plate D, and extends into a longitudinal groove, K, in the upper surface of the block A. A nut, H′, is screwed on the upper end of the bolt H for locking the same in place.

In the plate D and block A two vertical apertures, L and M, are formed, of the desired shape of the notches between the saw-teeth.

The teeth in circular saws are cut by a punch fitting closely in the aperture L, and the teeth for crosscut-saws are cut by a punch, S, fitting closely in the aperture M. The apertures L and M are also formed in dies O and P, respectively held in apertures in the upper surface of the block A.

If a straight saw is to be gummed, it is placed between the base A and plate D and against the gage F. The plate D is pressed on the blade by turning down the cam-levers C. Then the punch S is forced through the apertures M, and cuts the edges of the teeth or cuts the entire teeth in the edge of the saw-blade.

If a circular saw is to be gummed, it is placed between the base-block A and the top plate, D, and the bolt H is passed through the central aperture of the saw, and the bolt is shifted in such a manner that the edge of the saw will be below the aperture L in the plate D, so that the teeth can be formed by a punch forced through the apertures L.

Saws of all kinds can be gummed very rapidly on my improved gummer.

The punches can be forced down by means of blows of a hammer or by means of any suitable mechanism.

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

1. In a saw-gummer, the combination, with a base-block, of a clamping-plate elastically supported above it at both ends, means, substantially as described, for depressing the plate, and an adjustable support, H, for the center of a circular saw, substantially as shown and described.

2. In a saw-gummer, the combination, with the base-block A, of dies held in the top of the same, the plate D, held above the base-block, the cam-levers C, pivoted in jaws on the end of the block A, and the springs E, held in the block A, and pressing the plate D upward, substantially as herein shown and described.

3. In a saw-gummer, the combination, with the base-block A, of dies held in the top of the same, the plate D, having a longitudinal slot, J, the bolt H, passing through the slot J into a groove, K, in the top of the block A, the

nut H′ on the bolt H, and the means for pressing the plate D on the base-block A, substantially as herein shown and described.

4. In a saw-gummer, the combination, with the base-block A, of the straps B, pivoted to the block A, and provided with slots *b*, the studs *a*, projecting through the slots *b*, the cam-levers C, pivoted in the upper ends of the straps B, the plate D, held above the block A, and of dies held in the top of the block A, substantially as herein shown and described.

JOHN STUEMPGES.

Witnesses:
HENRY VETTER,
AUGUST NAUMANN.